Forsyth MS4 Annual Facility Inspection Report

April 1, 2021 – March 31, 2022

VILLAGE OF FORSYTH
PRIDE & PROGRESS

Prepared by: Chastain & Associates LLC
5 N. Country Club Road | Decatur, IL 62521
P: 217.422.8544 | F: 217.422.0398

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
SERVICE | SOLUTIONS | COMMITMENT ™

Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control
ANNUAL FACILITY INSPECTION REPORT
for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.

Report Period: From March, 2021 To March, 2022

Permit No. ILR40 0193

MS4 OPERATOR INFORMATION: (As it appears on the current permit)

Name: Village of Forsyth Mailing Address 1: 301 South US 51

Mailing Address 2: County: Macon

City: Forsyth State: IL Zip: 62535 Telephone: 217-877-9445

Contact Person: Jill Applebee, Village Administrator Email Address: japplebee@forsyth-il.gov
(Person responsible for Annual Report)

Name(s) of governmental entity(ies) in which MS4 is located: (As it appears on the current permit)

Hickory Point Township Macon County

THE FOLLOWING ITEMS MUST BE ADDRESSED.

A. Changes to best management practices (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

1. Public Education and Outreach ☐
2. Public Participation/Involvement ☐
3. Illicit Discharge Detection & Elimination ☐
4. Construction Site Runoff Control ☐
5. Post-Construction Runoff Control ☐
6. Pollution Prevention/Good Housekeeping ☐

B. Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

D. Attach a summary of the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule.)

E. Attach notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

F. Attach a list of construction projects that your entity has paid for during the reporting period.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Jill Applebee — Owner Signature:

6-1-22 — Date:

Jill Applebee — Printed Name:

Village Administrator — Title:

EMAIL COMPLETED FORM TO: epa.ms4annualinsp@illinois.gov

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
1021 NORTH GRAND AVENUE EAST
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

VILLAGE OF FORSYTH

April 1, 2021 to March 31, 2022 MS4 Annual Facilities Inspection Report (2021 NOI - Year 1)

A. CHANGES TO BMP'S

1. No changes to BMPs were proposed during the Reporting Period.

B. COMPLIANCE WITH PERMIT CONDITIONS

C. RESULTS OF INFORMATION COLLECTED AND ANALYZED

D. ACTIVITIES FOR NEXT REPORTING CYCLE (APRIL 2022 TO MARCH 2023)

PUBLIC EDUCATION AND OUTREACH

1. BMP A.1 – Distributed Paper Material

B. Compliance with Permit Conditions	The Village, as a part of the Macon County MS4 communities, distributed flyers at the Village Hall. See Exhibits A through C for the flyers available.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Continue to distribute fliers at Village Hall and distribute to residents at community events.

2. BMP A.2 – Speaking Engagement

B. Compliance with Permit Conditions	The Village, as a part of the Macon County MS4 communities and in conjunction with the Champaign County MS4 workgroup, attended the virtual MS4 Workshop "Illinois Green infrastructure & Erosion Control Conference 2021" on October 20, 2021. Presenters included Stormwater Solutions Engineering, LLC, Urbana Park District, Prosperity Gardens, University of Illinois Extension, and Green Spot Alliance. A copy of the invitation is available in Exhibit D. Other events normally held during the year were cancelled due to Covid-19 restrictions, such as an in-person training with contractors and engineers.
C. Information Collected and Analyzed	The conference had 82 attendees.
D. Activities for Next Reporting Cycle	Speak at either one educational workshop or Village Board Meeting to inform public of construction site storm water management efforts. Continue support of Macon County SWCD public engagement.

3. BMP A.4 – Community Event

B. Compliance with Permit Conditions	The Village, as a part of the Macon County MS4 communities, attended the virtual "Illinois Green infrastructure & Erosion Control Conference 2021" on October 20, 2021. Presenters included Stormwater Solutions Engineering, LLC, Urbana Park District, Prosperity Gardens, University of Illinois Extension, and Green Spot Alliance. A copy of the invitation is available in Exhibit D. In June 2022, the Macon County Farm Bureau (CFB) partnered

	with several local stakeholders located in the Lake Decatur watershed to host a Nutrient Stewardship Field Day, focusing on sharing information about recent nutrient stewardship efforts and other watershed planning. See Exhibit E for the flyer for this activity. From August 31, 2021 to September 2, 2021, the Farm Progress Show was held in Decatur, IL. The Macon County Soil & Water Conservation District (MCSWCD) had a booth available showing conservation practices. See Exhibit F for additional educational events attended by MCSWCD during the reporting period.
C. Information Collected and Analyzed	The conference had 82 virtual attendees. The Nutrient Stewardship Field Day had around 48 attendees. MCSWCD had approximately 800 visitors to their Farm Progress Show booth.
D. Activities for Next Reporting Cycle	Continue to distribute fliers at Village Hall and distribute to residents at community events. Hold an annual public meeting in conjunction with the Macon County MS4 working group. Continue support of MCSWCD community events.

4. BMP A.6 – Other Public Education

B. Compliance with Permit Conditions	The Village, as part of the Macon County MS4 communities and the MCSWCD, maintained the website for storm water issues (www.maconcleanwater.com).
C. Information Collected and Analyzed	Visits to the website in 2020 totaled 9,869 for the reporting year. This reporting year, total website visits were unable to be calculated due to technical difficulties.
D. Activities for Next Reporting Cycle	Continue to update and maintain the current MS4 Community website and work to increase website visits by 10% in conjunction with the Macon County MS4 Community.

Annual Evaluation Statement: Public Education and Outreach (Section A)

For the next year, the Village will assist the Macon County SWCD with the annual workshop and training session to expand the audience for education training events. In addition, MS4 brochures will remain available at the SWCD office of the participating Macon County MS4 working group including at the Forsyth Village Hall. This gives citizens across the county opportunities to pick up the educational materials. Over the year, we will look for other areas to make the brochures available.

PUBLIC PARTICIPATION / INVOLVEMENT

1. BMP B.3 – Stakeholder Meeting

B. Compliance with Permit Conditions	The Village attended a local NPDES coordination meeting with other members of the Macon County MS4 community.

C. Information Collected and Analyzed	Meetings were held on the following dates: May 19, 2021 July 21, 2021 (Cancelled) September 15, 2021 November 17, 2021 January 19, 2022 March 16, 2022
D. Activities for Next Reporting Cycle	Continue to attend local NPDES coordination meetings.

2. BMP B.4 – Public Hearing

B. Compliance with Permit Conditions	No ordinance changes were implemented during the reporting period and therefore no public hearings were required.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Continue to review the Storm Water Ordinance and present changes to Village Board for approval.

3. BMP B.6 – Program Involvement

B. Compliance with Permit Conditions	The Village attended local NPDES coordination meetings with other members of the Macon County MS4 community. The Village offers recycling services to its residents. In addition, recycling containers are available at Village events.
C. Information Collected and Analyzed	Meetings were held at least every other month through the year.
D. Activities for Next Reporting Cycle	Continue to attend local NPDES coordination meetings.

Annual Evaluation Statement: Public Participation / Involvement (Section B)

In conjunction with the Macon County MS4 communities, we hold training seminars for local contractors, engineers and public works employees. We believe we have met the requirements of this section with our meetings, recycling program and website maintenance.

ILLICIT DISCHARGE DETECTION AND ELIMINATION

1. BMP C.1 – Sewer Map Preparation

B. Compliance with Permit Conditions	The Village maintains a map of Village storm sewers and outfalls. The map is continually updated to reflect new development within the Village limits. The map was transitioned to a GIS platform in 2021.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Continue revisions to the storm sewer map, as necessary. Expand capabilities of the GIS as funding becomes available.

2. BMP C.6 – Program Evaluation and Assessment

B. Compliance with Permit Conditions	The Village includes language in the Storm Water Ordinance that prohibits non-storm water discharges to the storm sewer system. A screening, inspection and follow-up program to identify non-storm water discharges and illicit discharges. 10%-15% of mapped outfalls were selected for dry weather screening, based on potential for illicit discharges. These outfalls are inspected during dry weather up to 3 times per year. Inspection reports are maintained and encountered discharges are investigated and eliminated.
C. Information Collected and Analyzed	Outfall structures monitored at the following locations and dates: 1. Timber & McDonald – 8/10/21, 12/27/21. 2. Market Street – 8/10/21, 12/27/21. 3. Main Park – 8/10/21, 12/27/21. See Exhibit I for reports. Steven's Creek was monitored at the following locations and dates: 1. County #20 & Hundley – influent – 8/10/21, 12/27/21. 2. Woodland & Lantern – effluent – 8/10/21, 12/27/21. See Exhibit G for reports.
D. Activities for Next Reporting Cycle	Stevens Creek will continue to be monitored using the Illinois River Watch site identification form. Outfalls will continue to be monitored up to 3 times per a year.

3. BMP C.7 – Visual Dry Weather Screening

B. Compliance with Permit Conditions	The Village includes language in the Storm Water Ordinance that prohibits non-storm water discharges to the storm sewer system. A screening, inspection and follow-up program to identify non-storm water discharges and illicit discharges. 10%-15% of mapped outfalls were selected for dry weather screening, based on potential for illicit discharges. These outfalls are inspected during dry weather up to 3 times per year. Inspection reports are maintained and encountered discharges are investigated and eliminated.
C. Information Collected and Analyzed	Outfall structures monitored at the following locations and dates: 1. Timber & McDonald – 8/10/21, 12/27/21. 2. Market Street – 8/10/21, 12/27/21. 3. Main Park – 8/10/21, 12/27/21. See Exhibit I for reports. Steven's Creek was monitored at the following locations and dates: 1. County #20 & Hundley – influent – 8/10/21, 12/27/21. 2. Woodland & Lantern – effluent – 8/10/21, 12/27/21. See Exhibit G for reports.

D. Activities for Next Reporting Cycle	Stevens Creek will continue to be monitored using the Illinois River Watch site identification form. Outfalls will continue to be monitored up to 3 times per a year.

Annual Evaluation Statement: Illicit Discharge Detection and Elimination (Section C)

To evaluate the effectiveness of our illicit detection efforts, the following will be documented:

Location #1 Intersection of Hundley and County Highway 20

Date	Worst Weather in past 48 hours	Temperature Air	Water Appearance	Turbidity
6-9-2020	Overcast/Showers	77 °F	Mostly Clear	Slight
8-17-2020	Clear/Sunny	86 °F	Clear	Clear/Slight
8/10/21	Showers	91 °F	Clear	Slight
12/27/21	Overcast	57 °F	Clear	Clear/Slight

Location #2 Woodland

Date	Worst Weather in past 48 hours	Temperature Air	Water Appearance	Turbidity
6-9-2020	Overcast/Showers	76 °F	Partly Clear	Slight
8-17-2020	Clear/Sunny	86 °F	Clear/Milky	Clear/Slight
8/10/21	Showers	92 °F	Clear	Slight
12/27/21	Overcast	57 °F	Clear	Clear/Slight

Storm water infrastructure will continue to be updated. The Village will inspect Stevens Creek summer 2022 and compare the results to past years.

CONSTRUCTION SITE RUNOFF CONTROL

1. BMP D.1 – Regulatory Control Program

B. Compliance with Permit Conditions	The Village contracts with the MCSWCD to provide reviews of the erosion control plans and SWPPPs within the Village limits as well as site inspections. Site plans that lack proper erosion control measures are returned to the developer for revision and resubmittal. In August 2020, these responsibilities were turned over to the Village staff.
C. Information Collected and Analyzed	6 permits were issued through the Village during the reporting period.
D. Activities for Next Reporting Cycle	Continue site plan reviews by the Village for compliance with local erosion and sediment control rules. The Village will evaluate the need for Stormwater Ordinance Revisions and recommend revisions.

2. BMP D.2 – Erosion and Sediment Control BMPs

B. Compliance with Permit Conditions	The Village provides commercial site plan and subdivision plan reviews using a consultant for compliance with local erosion and sediment control requirements.
C. Information Collected and Analyzed	4 commercial site plans were reviewed.

D. Activities for Next Reporting Cycle	Continue site plan reviews by the Village for compliance with local erosion and sediment control rules.

3. BMP D.4 – Site Plan Review Procedures

B. Compliance with Permit Conditions	The Village provides commercial site plan and subdivision plan reviews using a consultant for compliance with local erosion and sediment control requirements.
C. Information Collected and Analyzed	4 commercial site plans were reviewed.
D. Activities for Next Reporting Cycle	Continue site plan reviews by the Village for compliance with local erosion and sediment control rules.

4. BMP D.5 – Public Information Handling Procedures

B. Compliance with Permit Conditions	The phone number for the Village Hall is available on the website for the general public to report storm water issues. Complaints were forwarded to Public Works, investigated and managed appropriately.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Continue to track and report complaints.

5. BMP D.6 – Site Inspection/Enforcement Procedures

B. Compliance with Permit Conditions	Village staff was responsible for enforcement of the storm water requirements during site construction.
C. Information Collected and Analyzed	6 permits were issued through the Village.
D. Activities for Next Reporting Cycle	Continue to conduct site inspections for developments subject to ILR10 and perform follow-ups, as necessary.

Annual Evaluation Statement: Construction Site Runoff Control (Section D)

To evaluate the effectiveness of our Construction Site controls, the following will be documented in the next reporting cycle:

- Which BMPs are regularly installed correctly and incorrectly. This can guide future trainings. Inlet controls, stabilized construction entrances, and utilizing silt fence above its capabilities is still an issue on many of our sites.
- Evaluate numbers of follow up site inspections. Our goal is to have an overall downward trend.

POST-CONSTRUCTION RUNOFF CONTROL

1. BMP E.2 – Regulatory Control Program

B. Compliance with Permit Conditions	The Village's Storm Water Management ordinance was enforced pertaining to the design, installation and maintenance of post-construction water quality BMPs in accordance with the most current Illinois Urban Manual Standards.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Continue to enforce storm water management technical guidelines as set forth in the Illinois Urban Manual. The Village will evaluate the need for Stormwater Ordinance Revisions and recommend revisions.

2. BMP E.4 – Pre-Construction Review of BMP Designs

B. Compliance with Permit Conditions	The Village provides commercial site plan and subdivision plan reviews using a consultant for compliance with local erosion and sediment control requirements.
C. Information Collected and Analyzed	4 commercial site plans were reviewed.
D. Activities for Next Reporting Cycle	Continue site plan reviews by the Village for compliance with local erosion and sediment control rules and continue to enforce storm water regulations.

3. BMP E.5 – Site Inspections during Construction

B. Compliance with Permit Conditions	The MCSWCD provides onsite inspections during active construction. Village staff was responsible for follow-up enforcement of the storm water requirements.
C. Information Collected and Analyzed	All permitted sites were inspected by Village staff. See Exhibit J for site inspection checklist for the two locations with deficiencies.
D. Activities for Next Reporting Cycle	Continue site inspections by MCSWCD of reported construction sites.

4. BMP E.6 – Post-Construction Inspections

B. Compliance with Permit Conditions	The Village monitors outfall structures and detention basins.
C. Information Collected and Analyzed	Outfall structures were monitored at the following locations and dates: 1. Timber & McDonald – 8/10/21, 12/27/21. 2. Market Street – 8/10/21, 12/27/21. 3. Main Park – 8/10/21, 12/27/21. See Exhibit I for reports. 9 Detention Basins were inspected during the reporting period. See Exhibit I for the reports.
D. Activities for Next Reporting Cycle	Continue evaluation of existing operation and maintenance policies and amend, as necessary.

Annual Evaluation Statement: Post-Construction Runoff Control (Section E)

To evaluate the effectiveness of our Post Construction controls, the following will be documented:

The Village inspects 25% of the municipality's detention basins per year. The most common maintenance issues will be summarized. Knowing common issues may direct future training/education.

POLLUTION PREVENTION / GOOD HOUSEKEEPING

1. BMP F.1 – Employee Training Program

B. Compliance with Permit Conditions	Employees attended the Erosion Control virtual conference on 10/20/21. The Village employees also attended Illinois Department of Agriculture herbicide/pesticide training.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Continue employee training program.

2. BMP F.3 – Municipal Operations Storm Water Control

B. Compliance with Permit Conditions	The Village continued the practice of washing their vehicles in closed facilities that drain to sanitary sewers. Street Sweeping was conducted on a weekly basis around town.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Continue to enforce the use of the designated wash facilities and weekly street sweeping.

3. BMP F.6 – Other Municipal Operations Control

B. Compliance with Permit Conditions	The Village continued to use salt application devices to regulate salt applied to roads for snow removal and stores its roadway deicing salt in an enclosed facility which reduces salt loss from storm water runoff. The Village continually maintains stormwater infrastructure by picking up litter every Friday. The Village also conducted a Village wide clean up in May 2022. Village staff also inspects Steven's Creek after large rain events. Catch basins and storm sewer inlets were cleaned 5/4/21, 8/3/21, 11/3/21, 12/13/21, 12/28/21, and 3/18/22. Street sweepings were performed on a weekly basis.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Continue salt storage and application reduction measures, street sweepings, and catch basin/inlet cleaning.

Annual Evaluation Statement: Pollution Prevention / Good Housekeeping (Section F)

To evaluate the effectiveness of our Good Housekeeping controls, the following will be documented:

Employee training: We plan to leave room at every MS4 Work Group Meeting for sharing of new educational resources, information. An effort will be made to share educational items across municipalities.

The Village will encourage employees to notify their supervisor of any housekeeping items to be addressed.

E. PERMIT OBLIGATIONS PERFORMED BY ANOTHER ENTITY

The Village of Forsyth along with Macon County, the Village of Mt. Zion and the City of Decatur has contracted with the Macon County Soil and Water Conservation District (MCSWCD) for assistance with educational and public outreach portions of the permit.

F. CONSTRUCTION PROJECTS (BY VILLAGE) DURING REPORTING PERIOD

The following projects in the Village of Forsyth disturbed one or more acres for the reporting year:

- A road rehabilitation in The Greenbrier Subdivision. A separate ILR10 permit was opened by the Village for this project.

G. Monitoring Program

The Village completed a visual observation at two locations of Stevens Creek, one upstream where the creek enters the Village and one where the creek exits the Village. The Village also monitors outfalls, detention and retention facilities within the Village. See Exhibits G, H, and I for the reports.

Best Management Practices for Individual Lot Construction

Correctly installed and maintained BMP's can help ensure that sediment generated from construction activity remains on-site. The following BMP's are commonly used for individual lot construction:

Construction Entrance

- Use to prevent tracking soil onto road
- Use 2"-3" stone, 6" deep
- Install during clearing phase and maintain throughout construction

- Install geotextile fabric under enterance

Rock Outlet Protection

- Use to dissipate energy from concentrated flows
- Helps prevent eroded channels downstream
- Use oversized stone appropriate for design velocities
- Install geotextile fabric under riprap

Sediment Barriers

- Use to trap sediment and intercept runoff
- Install prior to clearing phase
- Ensure silt fence is installed correctly by entrenching a portion of it in the ground and place stakes on the downhill side

- Maintain until vegetation is established; keep it upright and remove collected sediment
- Do not use on steep slopes or concentrated flow areas

Sediment Cleanup

- At the end of each work day sweep or scrape soil tracked onto roads
- After storm events inspect for off-site sediment movement and repair damage to barriers
- Remove sediment that penetrated barriers and remove build-up

Inlet Protection

- Protect all stormwater inlets- they are a direct conveyance to streams and rivers
- Install prior to clearing phase
- Filter fabric and temporary seeding are standard for inlet protection

Stockpile Placement and Protection

- Build stockpiles away from critical areas such as streams, drainage ways, and stormwater inlets

- Use temporary seed, such as rye or winter wheat, to stabilize pile until removed or re-graded

Re-vegetation/ Surface Protection

- Try to preserve existing trees, shrubs, and other vegetation when possible
- Use to stabilize exposed surfaces from erosion
- Use seed or sod to cover exposed soils after final grade is completed
- Seed critical areas such as drainage swales, right-to-way areas,areas near curb inlets, buffer areas along streams and wetlands

- Mulching can be used when temporary seeding is not practical and can be done in any weather situation

"All the water that will ever be is right now"

EXHIBIT A

Why do we care about Erosion from Construction Sites?

Sediment is the number one pollutant that flows from construction sites. It degrades water quality and can harm our water supply.

Macon County, the City of Decatur, the Village of Forsyth, and the Village of Mt. Zion are working together to do their part in protecting and improving water quality.

This brochure is designed to be a quick reference to some commonly used Best Management Practices to prevent erosion.

Failure to install BMP's could bring about costly fines, stop work orders, and expensive clean ups.

Who Should I Contact?

City of Decatur
Mary Cave 217-424-2724

Macon County
Jennifer Hoffman 217-425-6583

Village of Forsyth
Larry Coloni 217-433-9597

Village of Mt. Zion
Grant Corum 217-864-4811

For Inspections:

In Macon County: 217-425-6583

Decatur, Forsyth, & Mt. Zion:

Macon County Soil and Water Conservation District

217-877-5670 Ext 3

Erosion & Sediment Control Tips for Individual Lot Construction

www.maconcleanwater.org.

A collaborative effort of the Macon County MS4 Communities

EXHIBIT A

What is Green Infrastructure?

Green Infrastructure is a network for solving urban and climatic challenges by building with nature. The main components are stormwater management, climate adaptation, less stress heat, better air quality, and clean water and healthy soils. It also serves to provide an ecological framework for social, economical, and environmental health of the surroundings.

Rain Gardens

Rain Gardens are landscaped areas built in a depression that are designed to capture and filter stormwater runoff from a roof or other impervious surface. The plants and soil of the rain garden provide an easy, natural way of reducing the amount of stormwater runoff from individual residential properties.

Pervious Pavement

Pervious pavement may include paving blocks, grid pavers, or pervious concrete installed according to manufacturer's specifications. Pervious pavement can be used for driveways and patios with a stone reservoir underneath. The reservoir temporarily stores surface runoff before infiltrating it into the soil below the stone reservoir. Runoff is infiltrated directly into the soil and improves water quality.

Green Roofs

A green roof is a roof that is partially or completely covered with vegetation and waterproofing membrane. A green roof's purpose is to absorb rainwater, provide insulation, create habitat for wildlife, and help lower urban air temperatures.

EXHIBIT B

Bioswales

Bioswales are storm water runoff conveyance systems that provide an alternative to storm sewers. They can absorb low flows or carry runoff from heavy rains to storm sewer inlets or directly to surface waters. Bioswales improve water quality by infiltrating the first flush of storm water runoff and filtering the large storm flows they convey. The majority of annual precipitation comes from frequent, small rain events. Much of the value of bioswales comes from infiltrating and filtering nearly all of this water.

Who should I contact if I want to know more about these practices?

City of Decatur
217-424-2724

Macon County
217-425-6583

Village of Forsyth
217-433-9597

Village of Mt. Zion
217-864-4811

Green Infrastructure

Prepared by: Macon County Municipal Separate Storm Sewer System (MS4) Communities

EXHIBIT B

Basics of Water Pollution

Point Source Water Pollution

This is pollution that flows from pipes or comes from specific points such as an industrial site. This type of pollution is regulated by State laws.

Non-Point Source Water Pollution

This type of pollution results from land runoff, precipitation, atmospheric deposition, drainage and seepage. This pollutant is caused by rainfall and snowmelt moving over the ground. This activity collects pollutants and chemicals which are deposited into various creeks, lakes and water sources. This type of pollutant is not closely regulated but can be prevented by education.

Be The Solution to Storm Water Pollution

How Can You Make A Difference?

Household Chemicals

Problem: Many people do not know where to dispose of chemicals from the home.

Solution: Take all household chemicals to collection sites on specified days. Please see Macon County Environmental Agency website for additional information and the specific collection dates. **www.macongreen.com**

Yard and Garden

Problem: Many homeowners over fertilize their yard because they enjoy the look of a green yard.

Solution: Do not over fertilize your yard. Always follow the manufacturer's recommendations.

Do not apply when rain is in the forecast. Not only is it a waste of time and money, but the chemicals easily wash away in the runoff after a storm.

Do choose natural fertilizers such as compost or grass clippings.

Pet Waste

Problem: Many people allow their pet's waste to wash down the storm drain.

Solution: Pick up pet's waste when going for walks.

Auto Maintenance

Problem: Many people are not careful when performing routine maintenance on their vehicles.

Solution: Do not dump motor oil or fluids down a storm drain.

Do not clean up fluid spills with water. Other alternatives for clean up is kitty litter, sawdust, or wood chips to soak up the spill.

Do take your vehicle to the car wash so the soap and dirt is properly disposed of.

Do properly dispose of all motor oil and fluids properly. Many oil change shops will take used oil at no charge.

EXHIBIT C

Mission Statement for Municipal Separate Storm Sewer System

Our Municipal Separate Storm Sewer System (MS4) purpose is to protect, maintain, and enhance the environment of the jurisdictions and the public health, safety, and welfare of the citizens by controlling discharges of pollutants to the storm water system, by maintaining and improving the quality of the receiving waters into which the storm water outfalls flow, including without limitation lakes, rivers, streams, ponds, wetlands, and groundwater, and to enable compliance with the National Pollution Discharge Elimination System permit (NPDES) and applicable regulations for storm water discharges.

Web Sites for More Information:

www.maconcleanwater.com

Contact:

City of Decatur 424-2747

Macon County 424-1466

Village of Forsyth 877-9445

Village of Mt. Zion 864-4811

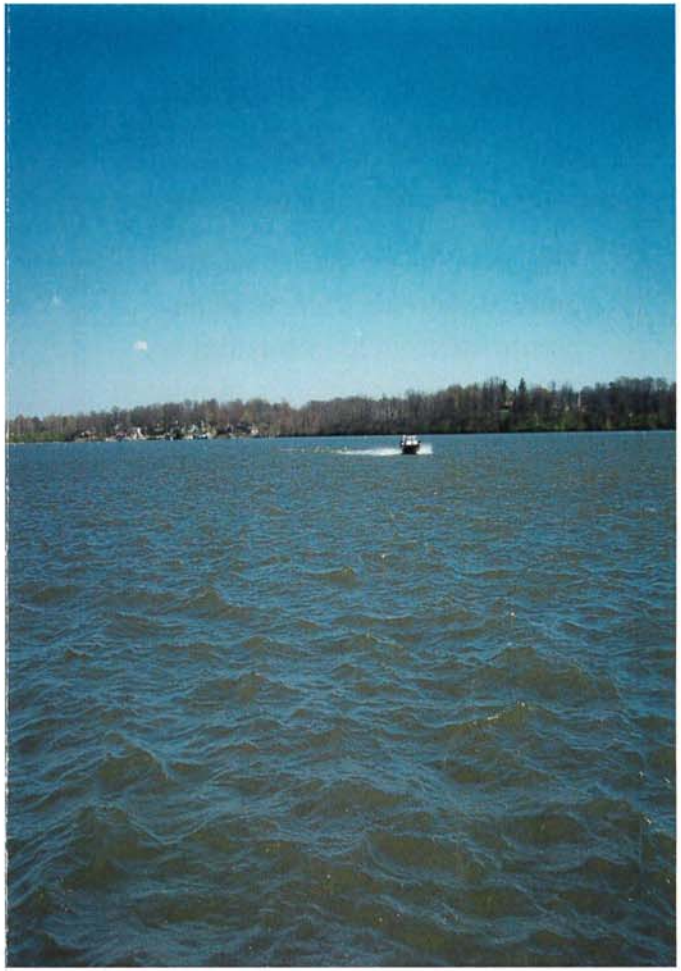
VILLAGE OF MT.ZION

FORSYTH
VILLAGE OF FORSYTH, ILLINOIS

CITY OF DECATUR ILLINOIS

MACON COUNTY, ILLINOIS
LINCOLN COUNTRY
AGRICULTURE • INDUSTRY • EDUCATION • RECREATION

MACON COUNTY SOIL & WATER CONSERVATION



WHEN IT RAINS…….. IT DRAINS

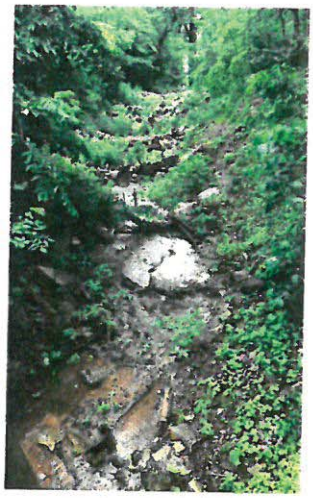
BE THE SOLUTION TO STORMWATER POLLUTION

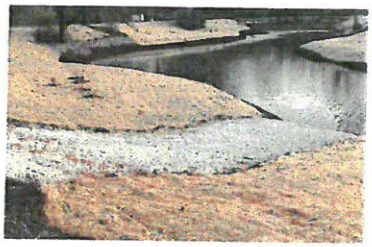
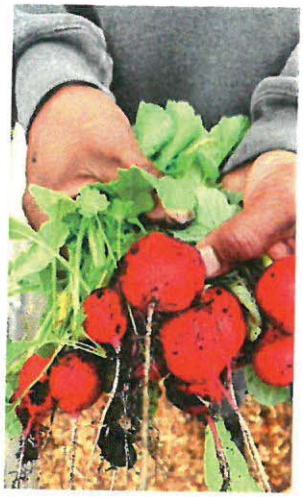
EXHIBIT C

EXHIBIT D

Illinois Green Infrastructure & Erosion Control Conference 2021

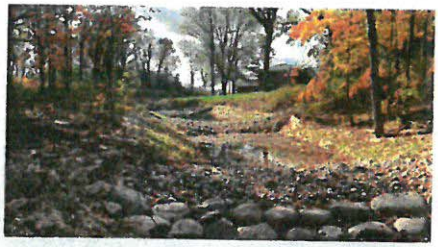
Wednesday, October 20, 2021, 9:00 am to 3:00 pm (CST)
a free virtual conference, hosted by:



Champaign County STORMWATER Partnership






Conference Presenters

Stormwater Solutions Engineering, LLC
Urbana Park District * Prosperity Gardens
University of Illinois Extension * Green Sports Alliance

Champaign County Stormwater Partnership

City of Champaign * City of Urbana * Champaign County
Champaign County Soil and Water Conservation
University of Illinois at Urbana-Champaign * Village of Savoy
www.ccstormwater.org

Introduction

The Champaign County Stormwater Partnership (CCSP) extends a warm welcome to all in attendance at today's virtual conference. Today's conference is designed to engage the audience on how we can all work collectively to achieve the goals of the Clean Water Act. This event will demonstrate existing technologies, techniques, and social programs that:

- have a positive impact on stormwater and help stop severe erosion.
- demonstrate site regeneration.
- bring food security to our community.
- educate homeowners and businesses on developing pollinator-friendly, easy-to-maintain gardens.
- introduce sustainability to the sports world.

Conference Agenda

9:00	**Welcome Statements**
9:05	**Adrienne Cizek**, PhD, P.E. Senior Project Engineer, Stormwater Solutions Engineering
10:00	**Andy Rousseau**, Project Manager, Urbana Park District (UPD)
	Kara Dudek, Park Planner, Urbana Park District (UPD)
	Erin Pande, Wetland Scientist, Engineering Resource Associates
11:00	**Nicole Musumeci**, Director, Prosperity Gardens
12:00	**Lunch Break**
1:00	**Kelly Allsup**, Extension Educator, Horticulture, University of Illinois Extension
2:00	**Garrett Wong**, Member Services Manager, Green Sport Alliance
2:55	**Closing Remarks**

Our esteemed presenters:

Adrienne Cizek, PhD, P.E.

Adrienne earned her PhD studying Regenerative Stormwater Conveyance (RSC) at North Carolina State University, working along-side the NC state extension, state and local water quality regulators, and engineering design firms. She has been part of the Stormwater Solutions Engineering (Milwaukee, WI) team for the past seven years, working on Green Infrastructure and site design, community engagement, floodplain modeling, stormwater management plans, permitting, and grant applications.

Regenerative Stormwater Conveyance (RSC), A New Tool for the Stormwater Toolbox

uses a series of pools and riffles connected by an underlying media layer designed to convey, manage, and treat stormwater runoff in one footprint. RSC's provide ravine stabilization, reduction in land use, water quality improvement, and streambank stabilization. This presentation will introduce RSC and its many applications through up-to-date research and case studies so that the audience can add RSC to their stormwater toolbox.

EXHIBIT D

Andy Rousseau

Andy is the Project Manager for the Urbana Park District. He is a graduate of Eastern Illinois University and the University of Illinois-Springfield, with a Master's in Public Administration (MPA). He has worked for UPD in a variety of roles since 2009, and served as the Project Manager for the last 4 years. Andy currently oversees capital improvements and manages contracts for a wide-variety of projects. His projects have included the Crystal Lake Park Rehabilitation Project, a wetland restoration at Perkins Road Park Site, and a habitat enhancement project on the Saline Branch, as part of a joint venture with the Illinois Department of Natural Resources and U.S. Fish and Wildlife Service.

Kara Dudek, AICP, GIP

Kara is Park Planner for the Urbana Park District. A graduate of the Department of Urban and Regional Planning at the University of Illinois, she is a member of the American Planning Association's American Institute of Certified Planners (AICP), as well as a trained Green Infrastructure Practitioner (GIP) through the National Green Infrastructure Certification Program. Kara is also a Climate for Health Ambassador through EcoAmerica. She supports the creation of safe, innovative, resilient, and inclusive parks as an essential tool to address some of the most pressing issues of our day: human and environmental health, climate change, and social equity. Her work ranges from district-wide strategic and climate plans, to park-specific planning; she writes and administers grants, performs GIS work, and collaborates with community members on new UPD projects and initiatives.

Erin Pande, PWS, CFM

Erin is a professional wetland scientist and certified floodplain manager. She graduated from Augustana College in Rock Island, IL with a degree in biology and minors in environmental studies and geology. She has worked for Engineering Resource Associates 17 years. Prior to her work at ERA, she was a

wetland specialist at DuPage County. She has performed natural area assessments and designed and implemented streambank and shoreline stabilization, natural area restoration, and water quality best management practice projects. She has authored the wetland, buffer, riparian, best management practice and volume control sections of the Cook County Watershed Management Ordinance and the Kane County Stormwater Management Ordinance. Erin is also a past president of the Lake Branch of the American Public Works Association (APWA) Chicago Metro Chapter and remains active on numerous committees for the Branch.

Green over Grey Infrastructure: Crystal Lake Rehabilitation Project

The Urbana Park District (UPD) and Engineering Resource Associates (ERA) discuss the Crystal Lake Revitalization project from planning and community input through design and implementation. History of Crystal Lake and common issues plaguing urban lakes will be briefly discussed, while green stormwater practices will be the focus. Learn why the Urbana Park District embraced green infrastructure for solving water quality, erosion, flooding, and habitat degradation concerns at Crystal Lake. Hint—the benefits are abundant!

Nicole Musumeci

Nicole is the Director of Prosperity Gardens in Champaign, IL. She is a University of Illinois ACES graduate with a degree in Agriculture and Environmental Communications. She has served as an AmeriCorps VISTA volunteer in Champaign and worked for two years in community-based programs in Zambia, Africa as a member of the US Peace Corps.

Prosperity Gardens (Food Security & Environmental Justice) is an urban farm workforce development program in the Champaign/Urbana community which helps combat food insecurity and takes on food and environmental justice issues. This is achieved in various ways through community partnerships. Conference participants will learn more about Prosperity Gardens workforce development program, which hires and trains vulnerable individuals and supports their transition from homeless to homed, from unemployed to employed. Learn about the urban farm location and how its presence has enriched the area, and the partnership between Prosperity Gardens and the Mobile Market, which strives to serve those located in local food deserts.

Kelly Allsup

Kelly is a Horticulture Educator for University of Illinois Extension serving Livingston, McLean, and Woodford Counties. She meets the educational needs of her community, including local chapters of Master Gardener and Master Naturalist volunteers, through expertise in home horticulture and entomology. Her passion for ecologically friendly gardening and all things plants makes her a dynamic speaker on topics that range from beneficial insects, to growing vegetables and fruits, to urban trees. A graduate of University of Illinois, she is fervent about connecting the latest horticulture research to the communities she serves so that they may grow more food and conserve the environment.

"Know" Maintenance Gardening (Low Maintenance / Stormwater Control) is a new perennial garden theory, originally developed by author Roy Diblik, that allows perennial gardens to be more sustainable. Kelly shares a fresh perspective on perennial gardening by outlining specifics from Diblik on bed preparation, plant selection, garden design, watering, and weed maintenance that allow homeowners, businesses, and municipalities to have an easier gardening and landscape management experience.

Garrett Wong

A sustainability change-maker and sports aficionado, Garrett joined the Green Sports Alliance as the Member Services Manager, working directly with the organization's professional sports teams and collegiate universities. After graduating from Arizona State University's School of Sustainability, he led the Sustainability Committee for the 2017 Final Four in achieving the Council of Responsible Sport's Evergreen Certification. Garrett sat on the School of Sustainability Alumni Board and provided opportunities for Sustainability alumni to further their network and professional development. He was the Emerging Professionals Chair for the U.S. Green Building Council Arizona Community, focused on continued education and networking for green building industry professionals. Between training for his next marathon and improving his amateur photography skills, Garrett is beyond ecstatic to continue working alongside the GSA members to bolster their sustainability programs and push their brands to new heights.

Green Sports Alliance: Solutions from Sports - Catalysts for Sustainable Change.

GSA is an environmentally-focused trade organization that convenes stakeholders from around the sporting world, as they promote healthy, sustainable communities where we live, work, and play.

Champaign County Stormwater Partnership

The Champaign County Stormwater Partnership is a collaboration of local government entities in Champaign County, Illinois, consisting of Champaign County, City of Champaign, City of Urbana, University of Illinois at Urbana-Champaign, the Village of Savoy, and the Champaign County Soil & Water Conservation District. We share common resources and efforts to develop a regional consistency in fulfilling Municipal Separate Storm Sewer System (MS4) permit requirements. This collaboration helps to minimize costs, while maximizing improvements in the quality of stormwater that runs off of the land and into rivers, lakes, and streams.

Thank you for joining us virtually today. Look for our next stormwater forum education conference in 2022, which will be hosted by the Macon County MS4 Group.

Thanks to the CCSP partners for planning this conference, and to all of our speakers who helped make it a success, despite all the hurdles involved.

A special thanks goes to Amanda Christenson and the U of I Extension Team for all their help setting up the Zoom Conference, and making this virtual conference a reality! And, as great as this was, we hope our next CCSP biennial conference will return to in-person at the iHotel in 2023. See you then!

STORMWATER SOLUTIONS ENGINEERING LLC

URBANA PARK DISTRICT

GREEN SPORTS ALLIANCE

PROSPERITY GARDENS

ENGINEERING RESOURCE ASSOCIATES

Illinois Extension

Champaign County Stormwater Partnership Members

EXHIBIT D

Champaign County
John Hall, Director of Planning and Zoning

Champaign County Soil and Water Conservation District
Erin Gundy, Resource Conservationist
Renee Weitekamp, Administrative Coordinator

City of Champaign
Alex Nagy, Assistant City Engineer for Environment
Leslie Heath, Engineering Technician II

City of Urbana
Tim Cowan, P.E., Public Works Director & City Engineer
Beth Reinke, Stormwater Engineering Technician

University of Illinois at Urbana-Champaign
David Wilcoxen, Associate Director, Environmental Compliance
Betsy Liggett, Coordinator, Special Programs, Environmental Compliance
Colleen Ruhter, P.E., Coordinator, Special Programs, Environmental Compliance

Village of Savoy
Roland White, P.E., Public Works Director
Brian Marcotte, Operations Superintendent

City of CHAMPAIGN

CITY OF URBANA

CHAMPAIGN COUNTY Soil & Water CONSERVATION DISTRICT

Savoy ILLINOIS

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

JOIN US

2021 Nutrient Stewardship Field Day

TUESDAY
JUNE 22
5:30 P.M. – 7:30 P.M.
REGISTRATION AT 5:00 P.M.

RAIN OR SHINE

Macon County Farm Bureau (CFB) is partnering with several local stakeholders located in the Lake Decatur watershed to host a Nutrient Stewardship Field Day, focused on sharing information about recent nutrient stewardship efforts and other watershed planning updates.

PRESENTERS:

Mike Stacey, President, Macon CFB – *Welcome*

Lauren Lurkins, Director of Environmental Policy, Illinois Farm Bureau (IFB) – *IFB Nutrient Stewardship Efforts*

Keith Alexander, Water Production Manager, City of Decatur – *Why We're Here and Where We're Going*

Angela Daily, Watershed Specialist, Macon County Soil and Water Conservation District (SWCD) – *History of Macon SWCD's Work in the Watershed*

Jeff Boeckler, Principal Water Resource Specialist, Northwater Consulting – *Watershed Management Program*

Stephen Anderson, Farmer, Shelby County and **Dr. Rabin Bhattarai,** Associate Professor, U of I College of Agricultural, Consumer & Environmental Sciences – *Drainage Water Management (DWM) in Shelby County*

Mike DeCamp, CEO, **Chris Aulbach,** Lead Agronomist, CoverCress Inc. (CoverCress) – *Introduction to New Winter Oilseed Crop for Corn/Soybean Rotation*

LOCATION:

6705 Angle Crossing Rd.,
Oakley, IL 62501

Limited parking on-site.

RSVP:

By Monday, June 14th to the Macon County Farm Bureau at (217) 877-2436

DETAILS:

Decatur Brew Works will serve beer on-site.

Meal at 5:30, catered by Richland Community College

Masks and social distancing will be required for all attendees.

Hand washing stations will be provided.

Brought to you by your local community partners:

Illinois Farm Bureau. Farm. Family. Food.™ · Macon County Farm Bureau · northwater · City of Decatur Illinois · Decatur Brew Works · Illinois LICA · Illinois College of Agricultural, Consumer & Environmental Sciences

EXHIBIT F

Macon County Soil & Water Conservation District

3342 N. President Howard Brown Blvd.
Decatur, IL 62521-6207
217-877-5670 Ext 3

www.maconcountyswcd.net

Educational Events put on by/attended by the Macon County SWCD for 2021/2022

Date	Name of Event	Program Presented	People in Attendance
1/27/21	Pipeline Safety	Pipeline Safety	16
February 1-28, 2021	Contractors Workshop	Pipeline safety, JULIE, green infrastructure, IDOT hauling regulation updates	36
April 2021	Agucation	Conservation Jeopardy (virtual event sent to all 5th grade classrooms in Macon County)	600 students
5/13/2021	Lady Landowners	Farm Family Resource	27
6/22/2021	Nutrient Stewardship Field Day	Watershed update, Cover Crops, nutrient reduction	48
7/8/2021	Lady Landowners	Women in Ag	31
8/31-9/2, 2021	Farm Progress Show	Lake Decatur Watershed Through the Years	800
8/26/21	Pond Demo	Pond maintenance, stocking, problems, invasives	54
9/9/21	Lady Landowners	Lincoln Heritage Lincoln Ag	28
10/20/21	Illinois Green Infrastructure & Erosion	Stormwater solutions, Green over Grey, Low maintenance gardening, Catalysts for Sustainable Change	187
11/11/21	Lady Landowners	Ag in the Classroom, ag ed for youth	26
1/13/22	Lady Landowners	Women in Ag	26
1/24/22	Pipeline Training	Pipeline Training	21
3/10/22	Lady Landowners	Farm Inputs	22
3/16/22	Spring Fish Day	Spring Fish Day	18
Total Reached in FY21			1,940

Gentry Davidson
Watershed Specialist
Macon County SWCD

EXHIBIT G

FORSYTH

Outfall Monitoring Sheet

In Flight

Site ID #: Stevens Creek
Stream: Co 20 + unnamed
Date: 12/27/21

Name(s) of Inspector(s): Kevin C

Start Time: 9 : 40 (am) pm **End Time:** 9 : 50 (am) pm

Present Weather
- [X] Clear/Sunny
- [X] Overcast
- [ ] Showers (Intermittent)
- [ ] Rainy (Steady)
- [ ] Stormy (Heavy)

Worst Weather in past 48 hours
- [ ] Clear/Sunny
- [X] Overcast
- [ ] Showers (Intermittent)
- [ ] Rain (Steady)
- [ ] Storm (Heavy)

Temperature
Air 57° °F °C
Water ____ °F °C

Water Appearance
- [X] Clear
- [ ] Milky
- [ ] Foamy
- [ ] Dark Brown
- [ ] Oily Sheen
- [ ] Reddish
- [ ] Green
- [ ] Other ____

Water Odor
- [X] None
- [ ] Sewage
- [ ] Chlorine
- [ ] Fishy
- [ ] Rotten Eggs
- [ ] Petroleum
- [ ] Other ____

Turbidity
- [X] Clear
- [X] Slight
- [ ] Medium
- [ ] Heavy

Canopy Cover [ ] 0% [ ] 1-5% [ ] 6-25% [ ] 26-50% [X] 51-75% [ ] 76-100%
Algal Growth [ ] 0% [ ] 1-5% [X] 6-25% [ ] 26-50% [ ] 51-75% [ ] 76-100%
Substrate Siltation Coverage: Estimate the percentage of the stream bed that is covered by silt.
[ ] 0% [ ] 1-5% [ ] 6-25% [X] 26-50% [ ] 51-75% [ ] 76-100%

Are there Submerged Aquatic Plants? (Yes) No
If yes, what types? grasses
List the types of **riparian (stream side) vegetation** present at the site. grasses / trees

Bottom Substrate: Using the percent codes below, record the percentage of each of the materials that make up the stream bottom by writing the percent code letter in the blank next to the bottom substrate type. If the substrate is not present at the site, write letter A in the blank.

Percent cover codes: A = 0% B = 1-5% C = 6-25% D = 26-50% E = 51-75% F = 76-100%

____ Bedrock
____ Boulder (> 10 in)
____ Hard Pan Clay
____ Cobble (2.5 in – 10 in)
____ Gravel (0.1 in – 2.5 in)
____ Other ____
E Sand (<0.1 in)
E Silt

FORSYTH

Outfall Monitoring Sheet

Effluent

Site ID #: Spring Creek
Stream: Wetland + Channel
Date: 10/27/21

Name(s) of Inspector(s): Kevin McC

Start Time: 9 : 15 (am) pm

End Time: 9 : 30 (am) pm

Present Weather
- ____ Clear/Sunny
- X Overcast
- ____ Showers (Intermittent)
- ____ Rainy (Steady)
- ____ Stormy (Heavy)

Worst Weather in past 48 hours
- ____ Clear/Sunny
- X Overcast
- ____ Showers (Intermittent)
- ____ Rain (Steady)
- ____ Storm (Heavy)

Temperature
Air 57 °F °C
Water ____ °F °C

Water Appearance
- X Clear
- ____ Milky
- ____ Foamy
- ____ Dark Brown
- ____ Oily Sheen
- ____ Reddish
- ____ Green
- ____ Other ____

Water Odor
- X None
- ____ Sewage
- ____ Chlorine
- ____ Fishy
- ____ Rotten Eggs
- ____ Petroleum
- ____ Other ____

Turbidity
- X Clear
- X Slight
- ____ Medium
- ____ Heavy

Canopy Cover ☐ 0% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☒ 76-100%

Algal Growth ☐ 0% ☐ 1-5% ☒ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Substrate Siltation Coverage: Estimate the percentage of the stream bed that is covered by silt.
☐ 0% ☐ 1-5% ☒ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Are there Submerged Aquatic Plants? (Yes) No

If yes, what types? grasses

List the types of **riparian (stream side) vegetation** present at the site. trees

Bottom Substrate: Using the percent codes below, record the percentage of each of the materials that make up the stream bottom by writing the percent code letter in the blank next to the bottom substrate type. If the substrate is not present at the site, write letter A in the blank.

Percent cover codes: A = 0% B = 1-5% C = 6-25% D = 26-50% E = 51-75% F = 76-100%

- ____ Bedrock
- ____ Boulder (> 10 in)
- ____ Hard Pan Clay
- ____ Cobble (2.5 in – 10 in)
- ____ Gravel (0.1 in – 2.5 in)
- ____ Other ____
- E Sand (<0.1 in)
- E Silt

EXHIBIT G

FORSYTH

EFFLUENT

Outfall Monitoring Sheet

Site ID #: ~~STRONG CREEK~~
Stream: WOODLAND + LAUREN
Date: 8-10-21

Name(s) of Inspector(s): Lane

Start Time: 1 :15 am pm End Time: 1 :30 am pm

Present Weather
- X Clear/Sunny
- ___ Overcast
- ___ Showers (Intermittent)
- ___ Rainy (Steady)
- ___ Stormy (Heavy)

Worst Weather in past 48 hours
- ___ Clear/Sunny
- ___ Overcast
- X Showers (Intermittent)
- ___ Rain (Steady)
- ___ Storm (Heavy)

Temperature
Air 92 °F °C
Water ___ °F °C

Water Appearance
- X Clear
- ___ Milky
- ___ Foamy
- ___ Dark Brown
- ___ Oily Sheen
- ___ Reddish
- ___ Green
- ___ Other ___

Water Odor
- X None
- ___ Sewage
- ___ Chlorine
- ___ Fishy
- ___ Rotten Eggs
- ___ Petroleum
- ___ Other ___

Turbidity
- X Clear
- ___ Slight
- ___ Medium
- ___ Heavy

Canopy Cover ☐ 0% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☒ 76-100%
Algal Growth ☐ 0% ☐ 1-5% ☐ 6-25% ☒ 26-50% ☒ 51-75% ☐ 76-100%
Substrate Siltation Coverage: Estimate the percentage of the stream bed that is covered by silt.
☐ 0% ☐ 1-5% ☒ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Are there Submerged Aquatic Plants? (Yes) No
If yes, what types? GRASSES
List the types of **riparian (stream side) vegetation** present at the site. GRASS / TREES

Bottom Substrate: Using the percent codes below, record the percentage of each of the materials that make up the stream bottom by writing the percent code letter in the blank next to the bottom substrate type. If the substrate is not present at the site, write letter A in the blank.

Percent cover codes: A = 0% B = 1-5% C = 6-25% D = 26-50% E = 51-75% F = 76-100%

- ___ Bedrock
- ___ Boulder (> 10 in)
- ___ Hard Pan Clay
- ___ Cobble (2.5 in – 10 in)
- ___ Gravel (0.1 in – 2.5 in)
- ___ Other ___
- B Sand (<0.1 in)
- E Silt

Stream Discharge Estimate

Stream Width: ~25' feet
A

If you can only record two depth or velocity measurements, please calculate the average by dividing the sum by 2.
If only one measurement is taken, use the single value as the average.

Depth Measurements:

1. 2.3 ft
2. ____ ft
3. ____ ft

Average Depth = _____ feet
B

Velocity Calculations:
10 ft ÷ ____ seconds = 1.6 ft/sec
10 ft ÷ ____ seconds = ____ ft/sec
10 ft ÷ ____ seconds = ____ ft/sec

Average Velocity = _____ ft/sec
C

Discharge (width x depth x velocity) _____ ft x _____ ft x _____ ft/sec = _____ ft^3/sec
A B C

Land Uses

Record all visible land uses occurring upstream and on either side of the stream site. Indicate which land uses are **dominant (D)** and which **affect small areas (X)**. If a listed land use is not present, leave blank.

—	Forest (W1)	—	Logging (W2)	X	Golf Course (W3)
X	Grassland and Ungrazed Field (W4)	—	Commercial (W6)	X	Scattered Residential (W7)
—	High-Density Residential/Urban (W8)	—	Cropland (W9) Type? (W9T) _____	—	Sewage Treatment (W10)
	Park (W11)	—	Mining (W12) Type? (W12T) _____	—	Sanitary Landfill (W13)
—	Livestock Pasture (W14)	—	Construction (W15) Type? (W15T) _____	—	Industrial (W16)
	Other (W17) _____				

Please circle YES or NO and provide the necessary information to answer the following questions:

1. **Upstream dam?** (including beaver dams) YES (NO)
   If yes, approximately how far upstream? _____ NOT NOTED
2. **Wastewater treatment discharge upstream?** YES (NO)
   If yes, approximately how far upstream? _____
3. **Any pipes emptying directly into or near your study site?** YES (NO)
4. **Channel Alteration.** Has the stream been channelized (straightened) at your site? YES (NO)
   If yes, what percentage of your site has been channelized? _____ %

Habitat Survey Notes (Include sediment odors, appearance, and/or the presence of silt, watershed features present but not listed on this data sheet, and any other information you feel is important or interesting to mention. Attach separate sheet if needed.)

EXHIBIT G

FORSYTH

Outfall Monitoring Sheet

Site ID #: SPRINGS CREEK
Stream: COLLEGE + HUNDLEY
Date: 8-10-21

Name(s) of Inspector(s): LMW

Start Time: 12 : 40 am (pm) End Time: 12 : 50 am pm

Present Weather
- [X] Clear/Sunny
- [ ] Overcast
- [ ] Showers (Intermittent)
- [ ] Rainy (Steady)
- [ ] Stormy (Heavy)

Worst Weather in past 48 hours
- [ ] Clear/Sunny
- [ ] Overcast
- [X] Showers (Intermittent)
- [ ] Rain (Steady)
- [ ] Storm (Heavy)

Temperature
Air 91 °F °C
Water ____ °F °C

Water Appearance
- [Y] Clear
- [ ] Milky
- [ ] Foamy
- [ ] Dark Brown
- [ ] Oily Sheen
- [ ] Reddish
- [ ] Green
- [ ] Other ____

Water Odor
- [X] None
- [ ] Sewage
- [ ] Chlorine
- [ ] Fishy
- [ ] Rotten Eggs
- [ ] Petroleum
- [ ] Other ____

Turbidity
- [V] Clear
- [X] Slight
- [ ] Medium
- [ ] Heavy

Canopy Cover [ ] 0% [ ] 1-5% [ ] 6-25% [ ] 26-50% [ ] 51-75% [X] 76-100%
Algal Growth [ ] 0% [ ] 1-5% [ ] 6-25% [ ] 26-50% [X] 51-75% [ ] 76-100%
Substrate Siltation Coverage: Estimate the percentage of the stream bed that is covered by silt.
[ ] 0% [ ] 1-5% [ ] 6-25% [X] 26-50% [ ] 51-75% [ ] 76-100%

Are there Submerged Aquatic Plants? (Yes) No
If yes, what types? GRASSES
List the types of **riparian (stream side) vegetation** present at the site. GRASS / TREES

Bottom Substrate: Using the percent codes below, record the percentage of each of the materials that make up the stream bottom by writing the percent code letter in the blank next to the bottom substrate type. If the substrate is not present at the site, write letter A in the blank.

Percent cover codes: A = 0% B = 1-5% C = 6-25% D = 26-50% E = 51-75% F = 76-100%

- ____ Bedrock
- ____ Boulder (> 10 in)
- ____ Hard Pan Clay
- ____ Cobble (2.5 in – 10 in)
- ____ Gravel (0.1 in – 2.5 in)
- ____ Other ____
- E Sand (<0.1 in)
- E Silt

Stream Discharge Estimate

Stream Width: 20-25 feet
A

If you can only record two depth or velocity measurements, please calculate the average by dividing the sum by 2.
If only one measurement is taken, use the single value as the average.

Depth Measurements:

1. 1 ft
2. ____ ft
3. ____ ft

Average Depth = ____ feet
B

Velocity Calculations:

10 ft ÷ 6 seconds = 1.6 ft/sec
10 ft ÷ ____ seconds = ____ ft/sec
10 ft ÷ ____ seconds = ____ ft/sec

Average Velocity = ____ ft/sec
C

Discharge (width x depth x velocity) ____ ft x ____ ft x ____ ft/sec = ____ ft^3/sec
A B C

Land Uses

Record all visible land uses occurring upstream and on either side of the stream site. Indicate which land uses are **dominant (D)** and which **affect small areas (X)**. If a listed land use is not present, leave blank.

	Forest (W1)		Logging (W2) —		Golf Course (W3) —
X	Grassland and Ungrazed Field (W4)		Commercial (W6) —	X	Scattered Residential (W7)
	High-Density Residential/Urban (W8)	D	Cropland (W9) Type? (W9T) ____	X	Sewage Treatment (W10)
	Park (W11)		Mining (W12) — Type? (W12T) ____		Sanitary Landfill (W13)
	Livestock Pasture (W14)		Construction (W15) — Type? (W15T) ____		Industrial (W16)
	Other (W17) ____				

Please circle YES or NO and provide the necessary information to answer the following questions:

1. **Upstream dam?** (including beaver dams) (YES) NO
   If yes, approximately how far upstream? At BRIDGE
2. **Wastewater treatment discharge upstream?** YES (NO)
   If yes, approximately how far upstream? ____
3. **Any pipes emptying directly into or near your study site?** YES (NO)
4. **Channel Alteration.** Has the stream been channelized (straightened) at your site? YES (NO)
   If yes, what percentage of your site has been channelized? ____ %

Habitat Survey Notes (Include sediment odors, appearance, and/or the presence of silt, watershed features present but not listed on this data sheet, and any other information you feel is important or interesting to mention. Attach separate sheet if needed.)

VILLAGE OF FORSYTH
PRIDE & PROGRESS

EXHIBIT H

Detention Basin Inspection Form

Inspection Date: 12/27/21 Time: 10:20 a.m.

Location: ASPEN DENTAL - HIGHLAND —UNDERGROUND—

Type: Residential_____ Commercial X

Checklist:

- ☑ Inlets – clear, no erosion
- ☑ Outlets – clear, no erosion
- ☑ Adequate vegetative cover
- ☑ Signs of erosion or damage
- ☑ Removal of silt, litter, landscape waste, etc.
- ☑ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☑ Sedimentation

✓ In compliance at time of inspection

_____ Out of compliance at time of inspection

Reasons for out of compliance:

VILLAGE OF FORSYTH
PRIDE & PROGRESS

EXHIBIT H

Detention Basin Inspection Form

Inspection Date: 12/27/21 Time: 10:15 a.m.

Location: HOME TOWN BUFFETT – RT 51

Type: Residential_____ Commercial X

Checklist:

- ☑ Inlets – clear, no erosion
- ☑ Outlets – clear, no erosion
- ☑ Adequate vegetative cover
- ☑ Signs of erosion or damage
- ☑ Removal of silt, litter, landscape waste, etc.
- ☑ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☑ Sedimentation

✓ In compliance at time of inspection

_____ Out of compliance at time of inspection

Reasons for out of compliance:

VILLAGE OF FORSYTH
PRIDE & PROGRESS

EXHIBIT H

Detention Basin Inspection Form

Inspection Date: 12/22/21 Time: 9:00 a.m.

Location: ARCHITECTURAL EXPRESSIONS- DINAH DR.

Type: Residential _____ Commercial X

Checklist:

- ☑ Inlets – clear, no erosion
- ☑ Outlets – clear, no erosion
- ☑ Adequate vegetative cover
- ☑ Signs of erosion or damage
- ☑ Removal of silt, litter, landscape waste, etc.
- ☑ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☑ Sedimentation

✓ In compliance at time of inspection

_____ Out of compliance at time of inspection

Reasons for out of compliance:

VILLAGE OF FORSYTH
PRIDE & PROGRESS

EXHIBIT H

Detention Basin Inspection Form

Inspection Date: 12/22/21 Time: 9:30 a.m.

Location: Lowes — Commerce — (Front)

Type: Residential_____ Commercial X

Checklist:

- ☑ Inlets – clear, no erosion
- ☑ Outlets – clear, no erosion
- ☑ Adequate vegetative cover
- ☑ Signs of erosion or damage
- ☑ Removal of silt, litter, landscape waste, etc.
- ☑ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☑ Sedimentation

✓ In compliance at time of inspection

_____ Out of compliance at time of inspection

Reasons for out of compliance:

EXHIBIT H

VILLAGE OF FORSYTH
PRIDE & PROGRESS

Detention Basin Inspection Form

Inspection Date: 12/22/21 Time: 9:35a.m.

Location: PIZZA HUT - 51

Type: Residential_____ Commercial ✓

Checklist:

- ☑ Inlets – clear, no erosion
- ☑ Outlets – clear, no erosion
- ☑ Adequate vegetative cover
- ☑ Signs of erosion or damage
- ☑ Removal of silt, litter, landscape waste, etc.
- ☑ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☑ Sedimentation

___✓ In compliance at time of inspection

_____ Out of compliance at time of inspection

Reasons for out of compliance:

VILLAGE OF FORSYTH
PRIDE & PROGRESS

EXHIBIT H

Detention Basin Inspection Form

Inspection Date: 12/22/21 Time: 9:40 a.m.

Location: STEAM N SMOKE RT 51

Type: Residential _____ Commercial ✓

Checklist:

- ☑ Inlets – clear, no erosion
- ☑ Outlets – clear, no erosion
- ☑ Adequate vegetative cover
- ☑ Signs of erosion or damage
- ☑ Removal of silt, litter, landscape waste, etc.
- ☑ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☑ Sedimentation

✓ In compliance at time of inspection

_____ Out of compliance at time of inspection

Reasons for out of compliance:

VILLAGE OF
FORSYTH
PRIDE & PROGRESS

EXHIBIT H

Detention Basin Inspection Form

Inspection Date: 12/22/21 Time: 9:50 a.m.

Location: McDonalds - Lucille

Type: Residential_____ Commercial ✓

Checklist:

- ☑ Inlets – clear, no erosion
- ☑ Outlets – clear, no erosion
- ☑ Adequate vegetative cover
- ☑ Signs of erosion or damage
- ☑ Removal of silt, litter, landscape waste, etc.
- ☑ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☑ Sedimentation

✓ In compliance at time of inspection

_____ Out of compliance at time of inspection

Reasons for out of compliance:

EXHIBIT H

VILLAGE OF FORSYTH
PRIDE & PROGRESS

Detention Basin Inspection Form

Inspection Date: 10/22/21 Time: 10:05a.m.

Location: DECATUR EARTHMOVER CREDIT UNION – MANION

Type: Residential_____ Commercial ✓

Checklist:

- ☑ Inlets – clear, no erosion
- ☑ Outlets – clear, no erosion
- ☑ Adequate vegetative cover
- ☑ Signs of erosion or damage
- ☑ Removal of silt, litter, landscape waste, etc.
- ☑ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☑ Sedimentation

✓ In compliance at time of inspection

_____ Out of compliance at time of inspection

Reasons for out of compliance:

956 MAPLEWOOD

VILLAGE OF FORSYTH
PRIDE & PROGRESS

EXHIBIT H

Detention Basin Inspection Form

Inspection Date: 3-23-21 Time: _____

Location: 230 LUCILLE – RESIDENCE INN

Type: Residential _____ Commercial X

Checklist:

- ☑ Inlets – clear, no erosion
- ☐ Outlets – clear, no erosion
- ☑ Adequate vegetative cover
- ☐ Signs of erosion or damage
- ☐ Removal of silt, litter, landscape waste, etc.
- ☐ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☑ Sedimentation

_____ In compliance at time of inspection

X Out of compliance at time of inspection

Reasons for out of compliance:

NEED TO REMOVE CAT TAILS FROM AROUND OUTLET PIPE – CATCH BASIN.

LINN + DARIN

VILLAGE OF FORSYTH
PRIDE & PROGRESS

EXHIBIT H

Detention Basin Inspection Form

Inspection Date: 3-23-21 Time: 10:20 A

Location: 1260 RT. 51 NEIL PLAZA

Type: Residential ____ Commercial X

Checklist:

- ☐ Inlets – clear, no erosion
- ☐ Outlets – clear, no erosion
- ☐ Adequate vegetative cover
- ☐ Signs of erosion or damage
- ☒ Removal of silt, litter, landscape waste, etc.
- ☐ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☐ Sedimentation

X In compliance at time of inspection

____ Out of compliance at time of inspection

Reasons for out of compliance:

NEED TO REMOVE TRASH FROM OUTLET AREA

LINN + DARIN

VILLAGE OF FORSYTH
PRIDE & PROGRESS

EXHIBIT H

Detention Basin Inspection Form

Inspection Date: 3-23-21 Time: _____

Location: 138 Lucille Ave Affordable Dentures

Type: Residential_____ Commercial X

Checklist:

- ☑ Inlets – clear, no erosion
- ☑ Outlets – clear, no erosion
- ☑ Adequate vegetative cover
- ☐ Signs of erosion or damage
- ☐ Removal of silt, litter, landscape waste, etc.
- ☑ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☐ Sedimentation

__X__ In compliance at time of inspection

_____ Out of compliance at time of inspection

Reasons for out of compliance:

Linn + Darin

VILLAGE OF FORSYTH
PRIDE & PROGRESS

EXHIBIT H

Detention Basin Inspection Form

Inspection Date: 3-23-21 Time: _____

Location: EAGLE RIDGE SUBDIVISION

Type: Residential X Commercial _____

Checklist:

- ☑ Inlets – clear, no erosion
- ☑ Outlets – clear, no erosion
- ☑ Adequate vegetative cover
- ☐ Signs of erosion or damage
- ☐ Removal of silt, litter, landscape waste, etc.
- ☑ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☐ Sedimentation

X In compliance at time of inspection

_____ Out of compliance at time of inspection

Reasons for out of compliance:

LYNN + DARIN

VILLAGE OF FORSYTH
PRIDE & PROGRESS

EXHIBIT H

Detention Basin Inspection Form

Inspection Date: 3-23-21 Time: _____

Location: 165 WEAVER RD HICKORY POINT BANK

Type: Residential_____ Commercial X

Checklist:

- ☑ Inlets – clear, no erosion
- ☑ Outlets – clear, no erosion
- ☑ Adequate vegetative cover
- ☐ Signs of erosion or damage
- ☐ Removal of silt, litter, landscape waste, etc.
- ☑ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☐ Sedimentation

X In compliance at time of inspection

_____ Out of compliance at time of inspection

Reasons for out of compliance:

INN + BARN

VILLAGE OF FORSYTH
PRIDE & PROGRESS

EXHIBIT H

Detention Basin Inspection Form

Inspection Date: 3-23-21 Time: _____

Location: 535 MARION KIDS-N-FITNESS

Type: Residential_____ Commercial X

Checklist:

- ☒ Inlets – clear, no erosion
- ☒ Outlets – clear, no erosion
- ☒ Adequate vegetative cover
- ☐ Signs of erosion or damage
- ☐ Removal of silt, litter, landscape waste, etc.
- ☒ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☐ Sedimentation

X In compliance at time of inspection

_____ Out of compliance at time of inspection

Reasons for out of compliance:

SMALL AREA OF NO GRASS.

DRIVE + PARKING

VILLAGE OF FORSYTH
PRIDE & PROGRESS

EXHIBIT H

Detention Basin Inspection Form

Inspection Date: 3-23-21 Time: 10:17 A

Location: 133 BARNETT AVE. FORSYTH COMMONS

Type: Residential_____ Commercial X

Checklist:

- ☑ Inlets – clear, no erosion
- ☑ Outlets – clear, no erosion
- ☑ Adequate vegetative cover
- ☐ Signs of erosion or damage
- ☐ Removal of silt, litter, landscape waste, etc.
- ☑ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☐ Sedimentation

X In compliance at time of inspection

_____ Out of compliance at time of inspection

Reasons for out of compliance:

LWN + DRIN

VILLAGE OF FORSYTH
PRIDE & PROGRESS

EXHIBIT H

Detention Basin Inspection Form

Inspection Date: 3-23-21 Time: _____

Location: 338 MARION AVE EXTENDED LIVING PHARMACY

Type: Residential_____ Commercial X

Checklist:

- ☑ Inlets – clear, no erosion
- ☑ Outlets – clear, no erosion
- ☑ Adequate vegetative cover
- ☐ Signs of erosion or damage
- ☐ Removal of silt, litter, landscape waste, etc.
- ☑ Maintenance of landscaping – grass mowed, trees, and brush removed
- ☐ Sedimentation

X In compliance at time of inspection

_____ Out of compliance at time of inspection

Reasons for out of compliance:

NEED TO REMOVE EROSION CONTROL FROM AROUND CATCH BASIN -

LINK + DARIN

EXHIBIT I

FORSYTH
VILLAGE OF FORSYTH, ILLINOIS

OUTFALL STRUCTURES

TIMBER + MC DONALD

Date: 8-10-21

Time: 1:30

Name of Inspector: [illegible]

Location:

Weather: HOT / SUNNY

Weather Past 48 Hours: HOT / RAIN

Temperature: 92

Water Appearance: CLEAR

Water Odor: NONE

Turbidity: NONE

EXHIBIT I

FORSYTH
VILLAGE OF FORSYTH, ILLINOIS

OUTFALL STRUCTURES

MARKET ST

Date: 8-10-21

Time: 1:55

Name of Inspector: DMW

Location: MARKET ST

Weather: 92 SUNNY

Weather Past 48 Hours: RAIN

Temperature: 92

Water Appearance: CLEAR

Water Odor: NONE

Turbidity: SLIGHT / NONE

EXHIBIT I

FORSYTH
VILLAGE OF FORSYTH, ILLINOIS

OUTFALL STRUCTURES
MAIN PARK

Date: 8-10-21

Time: 1:40 p.m.

Name of Inspector:

Location: main Park

Weather: Sunny

Weather Past 48 Hours: Showers

Temperature: 95°

Water Appearance: clear

Water Odor: none

Turbidity: ~~no~~ clear

EXHIBIT I

FORSYTH
VILLAGE OF FORSYTH, ILLINOIS

OUTFALL STRUCTURES

Timber & McDonald

Date: 10/27/21

Time: 8:33a.m

Name of Inspector: Kim

Location: timber/mcDonald

Weather: overcast

Weather Past 48 Hours: clear

Temperature: 58°

Water Appearance: clear

Water Odor: none

Turbidity: light

EXHIBIT I

FORSYTH
VILLAGE OF FORSYTH, ILLINOIS

OUTFALL STRUCTURES
MAIN PARK

Date: 12/27/21

Time: 8:20a.m.

Name of Inspector: [illegible]

Location: Main Park

Weather: ~~58°~~ overcast

Weather Past 48 Hours: clear

Temperature: 58°

Water Appearance: clear

Water Odor: none

Turbidity: light

EXHIBIT I

FORSYTH
VILLAGE OF FORSYTH, ILLINOIS

OUTFALL STRUCTURES
MARKET STREET

Date: 12/27/21

Time: 8:10a.m.

Name of Inspector: Kevin McL

Location: Market Street

Weather: overcast

Weather Past 48 Hours: clear

Temperature: 58°

Water Appearance: clear

Water Odor: none

Turbidity: slight

FORSYTH

VILLAGE OF FORSYTH, ILLINOIS

EXHIBIT J

EROSION CONTROL CHECKLIST
Forsyth, Illinois

Site Location 174 Sattonew Ridge Inspector UNN Date 11-22-21
BLD

Street Sweeping

☒ Adequate ☐ Requires Sweeping

Notes: _____

Inlet Protection

☒ Adequate ☐ Needs Repair ☐ Install

Notes: _____

Rock Construction Entrance

☒ Adequate ☐ Needs Repair/Rock ☐ Install

Notes: _____

Silt Fence

☐ Adequate ☒ Needs Repair ☐ Install

Notes: _____

Outlet Structure Control

☒ Adequate ☐ Needs Repair ☐ Install

Notes: _____

General Site Conditions

Notes: Construction Less Major

FORSYTH

VILLAGE OF FORSYTH, ILLINOIS

EXHIBIT J

EROSION CONTROL CHECKLIST
Forsyth, Illinois

Site Location 122 SHADOW RIDGE CT Inspector LNN Date 11-22-21

Street Sweeping

☒ Adequate ☐ Requires Sweeping

Notes: _____

Inlet Protection

☒ Adequate ☐ Needs Repair ☐ Install

Notes: _____

Rock Construction Entrance

☒ Adequate ☐ Needs Repair/Rock ☐ Install

Notes: _____

Silt Fence

☐ Adequate ☒ Needs Repair ☐ Install

Notes: _____

Outlet Structure Control

☒ Adequate ☐ Needs Repair ☐ Install

Notes: _____

General Site Conditions

Notes: CONTRACTOR LES TAYLOR - 11-22-21