



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, 2022 To March, 2023

Permit No. ILR40 0401

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

Name: Village of North Aurora Mailing Address 1: 25 East State Street

Mailing Address 2: County: Kane

City: North Aurora State: IL Zip: 60542 Telephone: 331.385.6255

Contact Person: John Laskowski Email Address: jlaskowski@northaurora.org
(Person responsible for Annual Report)

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

Village of North Aurora

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 | <input type="checkbox"/> | 4. Construction Site Runoff Control | <input type="checkbox"/> |
| 2. Public Participation/Involvement | <input type="checkbox"/> | 5. Post-Construction Runoff Control | <input type="checkbox"/> |
| 3. Illicit Discharge Detection & Elimination | <input type="checkbox"/> | 6. Pollution Prevention/Good Housekeeping | <input type="checkbox"/> |

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))


Owner Signature:

John Laskowski
Printed Name:

4/6/23
Date:

Public Works Director
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

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms-Management Center.

VILLAGE OF NORTH AURORA ANNUAL I.E.P.A. FACILITY INSPECTION REPORT

March 2022 to March 2023 Reporting Year

NPDES PERMIT FOR STORM WATER DISCHARGES FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)

A. **CHANGES TO BEST MANAGEMENT PRACTICES** - There are no significant changes to the Best Management Practices (BMP) for the control measures submitted in the Notice of Intent for the Village of North Aurora for this reporting period excepting those changes intended to meet recent modifications made by IEPA to the NPDES permit issued February 10, 2016 with effective date of March 1, 2016.

- A. **Public Education and Outreach**
No changes this reporting period.
- B. **Public Participation/Involvement**
No changes this reporting period.
- C. **Illicit Discharge Detection and Elimination**
No changes this reporting period.
- D. **Construction Site Runoff Control**
No changes this reporting period.
- E. **Post-Construction Runoff Control**
No changes this reporting period.
- F. **Pollution Prevention/Good Housekeeping**
No changes this reporting period.

B. **STATUS OF COMPLIANCE WITH THE PERMIT CONDITIONS, INCLUDING AN ASSESSMENT OF THE BMPS AND PROGRESS TOWARD THE MEASURABLE GOALS**

The status of compliance for the six (6) Control Measures outlined in the Village of North Aurora's Notice of Intent are presented in this report are summarized as follows and in the attached spreadsheet:

A. **Public Education and Outreach**

BMP A.1: Distribute informational pamphlets once per year.

The Village of North Aurora has distributed information from the Environmental Protection Agency and National Association of Conservation Districts to the public regarding the impact of storm water discharges and prevent storm water pollution. Stormwater management information is available on the Village web site and at the North Aurora Village Hall. The Village also distributed stormwater pollution prevention information in its April-May 2022 and August-September 2022 newsletters to all residents. Newsletters are also located on the Village web site: <https://northaurora.org/community-information/newsletter/>

The Village of North Aurora will continue to make information available to the public to educate them on the impact of storm water discharges and to prevent storm water pollution through pollution prevention practices.

The Village is looking to identify populations that are disproportionately impacted by stormwater pollution to promote environmental justice and distribute information to the populations identified. This year the Village designed water main replacement project and address minor stormwater issues as well on Chestnut, Locust, and Spruce. The Village has sent notifications informing residents of the proposed project.

BMP A.2: Invite and have the Kane-DuPage Soil and Water Conservation District, County or professional organization present material at public meetings at least one or more times per year. The Village of North Aurora held a public hearing at the Village of North Aurora Village Board meeting on February 6, 2023. A representative from KDSWCD was in attendance and briefly spoke at the hearing. The Village of North Aurora will continue to schedule a public hearing and speaking engagement with KDSWCD annually. The public hearing will be posted at the Village Hall and also on the Village of North Aurora website to inform the public of this event.

BMP A.3: Create and publish a public service announcement once per year on social media and the Village website.

Annually the Village publishes NPDES related information on its website and Facebook. A public service announcement (PSA) is typically run each reporting year, this year it was posted on 2/21/23. The Village of North Aurora's Notice of Intent and Annual Facilities Inspection Reports, are available on the Village of North Aurora's website for public access. The Village of North Aurora will continue to provide information on the Village's website and in the newsletter to educate the public on storm water pollution prevention. A link to the EPA's website on climate change, <https://www.epa.gov/climate-change> has been added to the Village of North Aurora website. The Village has also developed and adopted a Green Infrastructure formally adopted on October 18, 2021 which is currently published on the Village web site: <https://northaurora.org/wp-content/uploads/2022/03/12-Green-Infrastructure-Policy-10-18-21.pdf>

BMP A.4: Pass out flyers and promote education of storm pollution at the North Aurora Days Festival.

The Annual North Aurora Days Event was held August 5 and August 6 2022. This event provides an opportunity for Village staff to publicly speak and answer questions regarding storm water pollution prevention. NPDES pamphlets were available. The Village of North Aurora's annual North Aurora Days Event will continue to provide an opportunity to reach out to North Aurora residents about water pollution prevention and distribute pollution prevention information.

BMP A.5: Pass out flyers and promote education of storm pollution at local schools.

The Village of North Aurora distributed these materials on September 14, 2022 to approximately 205 students.

B. Public Participation/Involvement

BMP B.4: Conduct a Storm Water Pollution Public Hearing one (1) time per year.

The Village of North Aurora held a public hearing on February 6, 2023.

C. Illicit Discharge Detection and Elimination

BMP C.1: Update storm sewer mapping as applicable, if funds are available.

The Village maintains and updates the electronic storm water mapping system data maintained in our Geographic Information System database. The map identifies storm sewer mains, sewer size and locations, catch basin locations, and discharge points to receiving waters (Fox River and tributary streams). This year the map was updated to include relevant as-built information from new developments. Public Works staff continues proactively amends the atlases when inaccurate information is identified during JULIE locates or field investigations.

BMP C.2: Keep a running record of illicit discharge violations, their cause, and the remedy.

The Village of North Aurora has adopted an illicit discharge detection and elimination ordinance approved May 16, 2016. The Village Codified ordinance states it is unlawful to discharge to any natural outlet without an NPDES permit. No violations have been issued during the reporting period.

BMP C.3: Log inspections of commercial/industrial sites and sanitary sewers inspections.

The Village performs cursory inspections of Village property during normal business operations for proper storage of materials. This year This year the Village inspected Oberweis and 950 Ice Cream Drive. No violations were identified. Sanitary sewer repairs are performed as funding permits. No violations were reported for the 2022-2023 reporting year.

- BMP C.7:** Log inspections of storm sewer outfalls to the Fox River or Blackberry Creek with photo and visual inspection during dry weather conditions.

The Civil Engineer conducted visual dry weather screening on outfalls to the Fox River including a 18" RCP at the terminus of Lovedale Lane. Inspections were conducted on January 27, 2023 during a day that was dry but overcast. No illicit discharges were identified.

D. Construction Site Runoff Control

- BMP D.1:** Continue to enforce the Kane County Stormwater Ordinance.

The Village of North Aurora at a Village Board meeting on August 5, 2019 adopted Ordinance 01-05-14-02, an Ordinance Adopting the Kane County Stormwater Management Ordinance, and subsequent amendments to Ordinance 01-05-14-02. This Ordinance incorporates by reference all of the provisions of the Kane County Storm Water Management Ordinance which was adopted by the Kane County Board and is enforced within the municipal limits by the Village of North Aurora. (Copies of all ordinances are on file) Updates to the stormwater management ordinance have been adopted and became effective on June 1, 2019. The Village maintains electronic files containing all review letters and stormwater permit applications.

- BMP D.2:** Continue to contract with the Kane-DuPage Soil and Water Conservation District for soil and sedimentation plan review and inspection.

North Aurora has adopted Kane County Storm Water Ordinance and has an intergovernmental agreement (on file) with the Kane-DuPage Soil and Water Conservation District to provide on-going construction site soil erosion inspections for construction sites greater than or equal to 2 acres. The KDSWCD has authority to inspect these sites for NPDES compliance. Copies of all the erosion and sediment control inspections performed by all entities are maintained in an electronic file. The Village contracts with consulting engineers who provide inspections in accordance with the ILR40 and ILR10 requirements.

- BMP D.3:** Log incidences of violations to Ordinance 2001-73.

The Village of North Aurora addresses the control of construction wastes such as discarded building material, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality. Per ordinance 2001-73 building construction waste must be disposed of properly. No violations have been reported during this report period.

- BMP D.4:** Continue to review plans for conformance to the Kane County Ordinance and local Ordinances.

The North Aurora Public Works Department, the Building and Zoning Department, and North Aurora's consulting engineers jointly address plan reviews and site runoff control procedures with all contractors during pre-construction meetings, as well as conducting site inspections and ensuring enforcement. The consulting engineer reviews plans for conformance with engineering requirements and Kane County Ordinance. Copies of reviews and punch lists are maintained in an electronic file organized by project.

E. Post-Construction Runoff Control

- BMP E.2:** Update and adopt revisions to the Kane County Stormwater Ordinance as required.

On August 5,2019, the Village of North Aurora adopted Ordinance 01-05-14-02 which adopts the Kane County Stormwater Ordinance 00-312. This Ordinance incorporates by reference all of the provisions of the Kane County Storm Water Management Ordinance and is enforced within the municipal limits by the Village of North Aurora. A copy of this ordinance and all subsequent ordinances approving amendments to the Kane County Stormwater Ordinance are on file at the North Aurora Village Hall. Ensuring compliance with the Kane County stormwater ordinance reduces pollution due to decreased runoff rates and erosion control requirements. Revisions to the Ordinance were adopted by the Kane County Board on May 7, 2019

and became effective June 1, 2019. The Village performs permit application reviews and performs inspections in accordance with the provisions of the Ordinance.

BMP E.7: Inspect storm detention basins and visible storm features for trash and clean-up. Respond to resident drainage concerns and perform maintenance as problems are identified.

The Village inspects storm detention basins and visible storm features for trash and clean-up as required. Storm water management facilities are owned by a public agency (or homeowners association) with long term maintenance costs covered by Special Service Areas (SSA). The Village performs cursory inspections and maintenance of Village detention basins during normal business operations on a request basis and as needed after severe weather events. The Village periodically inspects the inlets and outlets of stormwater storage facilities to ensure they are functioning properly. When maintenance of the facilities is necessary or requested the Village will respond and address the issues. This year routine maintenance was performed at the following locations: Windstone, Banbury Ridge, Fairway View Town Homes, Towne Center Wetlands, and by request in Tanner Trails Subdivision. In addition the Village has been working with the Tanner Trails HOA and the Kane County Forest Preserve to address the storage facilities performance.

Clean up is performed on a case by case basis as scheduling allows, a fall and spring clean-up are scheduled through a lawn maintenance contract that addresses debris clean-up in roadside ditches.

In April of 2021 a 90 cubic yard sink hole formed over a 24" diameter ADS pipe north of the Tanner Trails subdivision. Village investigated the sink hole and hired a contractor to repair the pipe. Staff had the pipe televised and then enlisted a consulting engineering firm to perform an analysis of existing infrastructure and tributary areas. The firm has presented solutions and the Village is currently completing the design and permitting phase of this project and it is anticipated that the construction will begin in late summer or fall of 2023.

The Village has identified a severely clogged 21" diameter reinforced concrete pipe in the Fairview Way Townhomes Subdivision. The pipe was approximately 60% full of roots and causing back-ups in the area. Village staff identified a firm capable of root cutting the pipe. The second part of the project is the lining of the pipe to prevent future root infiltration and is scheduled to be completed spring of 2023.

F. Pollution Prevention/Good Housekeeping

BMP F.1: Employee Training Program

The Village conducts annual training of employees. Public Works employees attend trainings on soil erosion and sediment control as well as the impacts of winter deicing operations on stormwater pollution.

The Village of North Aurora will conduct pollution prevention seminars / training sessions for employees of the Public Works Department to give them formal instruction on the proper handling and disposal of wastes to prevent them from entering the storm sewer system along with general instruction on the NPDES requirements. Reference materials from USEPA and the State of Illinois will be utilized to assist in the training of employees.

The Public Works Director attended the IAFSM Conference that addressed erosion control and water quality issues held on March 8, and 9, 2022 and both the Public Works Director and Village Engineer attended the conference on March 14 & 15, 2023. This year Public Works Director and Village Engineer attended the Kane DuPage Soil & Water Conservation District's seminar on March 21, 2023 discussing existing and future regulations, new technologies in the industry, and various case studies from the region. The Public Works Director maintains a CPESC license. Periodically the Public Works Streets Division Employees will attend a Kane County seminar on the responsible use of salt during snow plow operations, when it is available.

BMP F.2: Inspection and Maintenance Program

Staff inspects and maintains its vehicles, equipment, storage tanks, and grease traps to ensure they are properly functioning. Staff also inspects and maintains its storm sewer system by cleaning structures and pipes. Storm structures, sewer pipe, and roadside ditches are cleaned when inspections indicate they

require maintenance resulting from debris or sediment accumulation. The Village inspects vehicles, equipment, and storage facilities and performs maintenance and repairs as warranted by inspections. The Village will target storm structures, pipe, and roadside ditches for maintenance in areas prone to flooding resulting from clogged pipes, areas of active development, and areas of municipal infrastructure projects.

This year the Village cleaned storm sewers in the Banbury Ridge Subdivision

BMP F.3: Municipal Operations Storm Water Control

The Village conducts street sweeping operations in order to minimize pollutant export from parking lots and streets. This year the Village swept on: 6/15/2022-6/17/2022, 6/20/2022-6/22/2022, 8/29/2022-8/31/22, 9/1/2022, 9/2/22, 9/6/22, 11/28/22-12/2/22, and 12/5/22-12/9/22. Additional sweeps were performed in areas that held special events on 5/26/2022, 8/5/2022, and 8/8/2022. Salt inventory used for deicing operations is stored in a covered facility on an impervious surface.

BMP F.4: Municipal Operation Waste Control.

The Village disposes or recycles waste and fluids as they are generated from maintenance operations and before storage containers reach capacity. Any fluids or materials spilled measures will be taken identify the material, safely clean up the spill according to the material's properties, notify impacted agencies, remediate any contamination, and contact the North Aurora Fire District to coordinate response when necessary. No serious spills required outside assistance to remediate. Wiper fluid spills were cleaned up and disposed of properly.

C. RESULTS OF ANY INFORMATION COLLECTED AND ANALYZED, INCLUDING MONITORING DATA

Monitoring data for each BMP is shown on the attached spreadsheet to compare yearly BMP activities from one reporting year to the next to evaluate effectiveness. This is the sixth year the Village has begun tracking effectiveness. Trend lines will be difficult to establish in any category due to a lack of data. Initially it can be seen that the tonnage that is prevented from entering waterways is related to development and increases and decreases with the area of the project. Additional descriptors will be added when and if they become available for qualitative comparison. The Village of North Aurora has a population of less than 25,000 and therefore has chosen to perform visual observations of select outfalls as a secondary means for monitoring effectiveness.

D. SUMMARY OF STORM WATER ACTIVITIES ANTICIPATED FOR THE NEXT REPORTING CYCLE

The Village will focus on addressing BMP goals that were not reached within this past reporting period and make progress on accomplishing them before the next reporting period.

E. NOTICE OF RELYING ON ANOTHER GOVERNMENTAL ENTITY TO SATISFY SOME OF THE PERMIT OBLIGATIONS

The Village of North Aurora relies on Kane County to fulfill its stormwater regulation and has adopted the Kane County Storm water Ordinance. The Village of North Aurora has also retained the services of the Kane-DuPage Soil and Water Conservation District to provide the Village's on-going construction site soil erosion inspections (intergovernmental agreement is on file).

F. CONSTRUCTION PROJECT LIST

The following road and construction projects were active in the Village of North Aurora from March 2022 to March 2023:

1. Road Construction and Infrastructure Improvements completed during the 2022-2023 Reporting Year on the streets below:
 - Pinecreek Drive
 - Matthias Court

- Hammer Lane
- Doral Lane
- Slaker Court
- Dewig Court
- Spyglass Court
- Wingfoot Drive
- Oak Crest Drive
- Cantigney Court
- Columbia Circle
- Woodlawn Drive
- Hart Road
- Aster Court
- Winterberry Court
- Meadow Lane
- Clark Street
- Turnberry Drive
- Hartfield Drive
- Greenbriar Court
- Fairfield Way
- Derby Drive
- Augusta Drive
- Coghill Court

G. Summary of approved TMDL study BMP's

No TMDL limits nor TMDL BMPs have been implemented.

H. Qualifying Local Programs implementing all minimum control measures:

The Village of North Aurora is not relying on any local program to meet all minimum control measures.

VILLAGE OF NORTH AURORA NPDES MONITORING, RECORDKEEPING, REPORTING AND EVALUATION OF ESTIMATED POLLUTION REDUCTION
REPORTING PERIOD MARCH 2022 THROUGH MARCH 2023

| BMP | Public Education and Outreach | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
|------------|--|-----------------------------------|--------------------------|---|--|--|-------------------------------------|
| BMP A.1 | Distributed Paper Material | Village of North Aurora | Fall 2021 | Village-wide & targeted at Spruce, Locust, Chestnut | 6,203 | The Village included information in its April-May & August-September newsletters and targeted low moderate income populations through a proposed water main replacement project on Chestnut, Locust, and Spruce. | <input checked="" type="checkbox"/> |
| BMP A.2 | Speaking Engagement | Village of North Aurora | February 6, 2023 | Village Hall | 15 Participants | A memorandum was composed and a brief oral presentation conducted during the public hearing for the NPDES program, member of KCSWCD was in attendance | <input checked="" type="checkbox"/> |
| BMP A.3 | Public Service Announcements | Village of North Aurora | periodically | Village Web Site and Social Media | Posts to social media and Village web site are made at least once per reporting period. | Stormwater Pollution information was displayed on the Village website and PSAs were posted on the Village Facebook page. The information described the Village NPDES Program and where to locate additional water quality resources. A Green Infrastructure policy is posted to the web site and continues to remain in force. | <input checked="" type="checkbox"/> |
| BMP A.4 | Community Event | Village of North Aurora | August 5-6, 2022 | Oak and Randall Roads | 25 | North Aurora Days Festival | <input checked="" type="checkbox"/> |
| BMP A.5 | Classroom Education Material Distributed | Village of North Aurora | 9/14/2022 | Goodwin, Fearn, and Schneider | 205 Students | Educational materials were distributed on September 14, 2022. | <input checked="" type="checkbox"/> |
| BMP | Public Involvement and Participation | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP B.4 | Public Hearing | Village of North Aurora | February 6, 2023 | Village Hall | Approximately 15 community members were in the audience. | Residents may speak at any public Village meeting that generally meets the 1st and 3rd week of the month. This reporting year the hearing was held on February 6, 2023 | <input checked="" type="checkbox"/> |
| BMP | Illicit Discharge Detection and Elimination | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP C.1 | Sewer Map Preparation | VONA Public Works and GIS Analyst | As warranted | Village-wide | The Village periodically updates its GIS database to reflect changes that occurred to the sewer atlas as a result of development or maintenance. | No new outfalls have been constructed to the Fox River. Outfalls for a respective developments are on file with within the specific project file folder | <input checked="" type="checkbox"/> |
| BMP C.2 | Regulatory Control Program | Village of North Aurora | adopted May 2016 | Enforceable Village Wide | N/A | No violations have been issued during the reporting period. | <input checked="" type="checkbox"/> |

| | | | | | | | |
|------------|--|--|--|-----------------------------|---|--|-------------------------------------|
| BMP C.3 | Detection/Elimination Prioritization Plan | Village of North Aurora, Village Engineer | Insepctions performed Summer 2022 | see folder BMP C.3. | Oberweiss and 950 Ice Cream Drive | Reduction of Inflow and Infiltration reduces the chance of sanitary sewer overflows decreasing the probability of stormwater pollution | <input checked="" type="checkbox"/> |
| BMP C.7 | Visual Dry Weather Screening | Village of North Aurora, Public Works Director, Engineering Intern | 1/27/2023 | 18" Diameter RCP | 1-Outfall Lovedale Lane | Pipe is clear with no evidence of illicit discharge or illegal connections, in fair condition. Photographs are on file. | <input checked="" type="checkbox"/> |
| BMP | Construction Site Stormwater Runoff Control | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP D.1 | Regulatory Control Program | Village Engineer & Public Works Director | No updates to the stormwater control ordinance were made during the reporting period | Village Limits | There are approximately 10 developments that have been reviewed this reporting period. Review Letters kept in file | Updates to the stormwater management ordinance have been adopted, the new ordinance became effective June 1, 2019. The Village adopted these revisions by Ordinance 01-05-14-02 on August 5,2019 | <input checked="" type="checkbox"/> |
| BMP D.2 | Erosion and Sediment Control BMPs | Consulting Engineer, KDSWCD, Village Engineer | Various, see report print outs in file | Sites under construction | 14 unique new developments within the Village, specific developments and locations and Soil Erosion Sediment Inspection reports kept in file. | Estimated weight of material prevented from leaving construction sites is illustrated in the table immediately follwing this table. | <input checked="" type="checkbox"/> |
| BMP D.3 | Other Waste Control Program | Village of North Aurora, KDSWCD, Village Engineer | Various see report print outs in file (BMP D.2) | Sites under construction | Oberweiss and 950 Ice Cream Drive | No written violations were issued during this reporting period. | <input checked="" type="checkbox"/> |
| BMP D.4 | Site Plan Review Procedures | Village Engineer, Public Works Director, & Consulting Engineer | various, but prior to permit issuance | Village Limits | Development punch lists are on file with the Village Engineer by project number, copies are provided and retained by the Village of North Aurora punch lists | Ensuring compliance with Village requirements reduces pollution by following codes, ordinances, construction standards for protection and improves safety | <input checked="" type="checkbox"/> |

| BMP | Post Construction Storm Water Management | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
|---------|---|---|---|--|--|---|-------------------------------------|
| BMP E.2 | Regulatory Control Program | Consulting Engineers & Village Engineer | various, but prior to permit issuance | Village Limits | Development punch lists are on file with the Village Engineer by project number, copies are provided and retained by the Village of North Aurora | Ensuring compliance with the Kane County stormwater ordinance reduces pollution due to decreased runoff rates and erosion control requirements. | <input checked="" type="checkbox"/> |
| BMP E.7 | Other Post-Construction Controls | Village of North Aurora | Planned during normal business operations however as-needed during or after storms | Village Wide | Village Engineer, Cvil Engineer, Street Superintendent, and Public Works Director | The Village performs periodic inspections of Village detention basins during normal business operations for maintenance and targeted inspections after significant rain events. Clean up is performed on a case by case basis and scheduling allows. Infrastructure issues are identified and resolved as needed. | <input checked="" type="checkbox"/> |
| BMP | Pollution Prevention and Good Housekeeping for Municipal Operations | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP F.1 | Employee Training Program | Kane County, IAFSM | KCSWD March 21,2023; IAFSM March 9-10, 2022 | KSWD Virtual Conference; IAFSM Conference | Village Engineer & Public Works Director | The Public Works Director and Village Engineer attend the IAFSM conference annually March . The director maintains a CPESC license. ThePublic Works Director attended the annual Kane DuPage Soil Water Conservation Districts's Erosion Control Seminar held on March 21, 2023 | <input checked="" type="checkbox"/> |
| BMP F.2 | Inspection and Maintenance Program | Village of North Aurora | Continuously thoroughout the year | Public Works Facility & Village Storm Sewer System | This yeare the Village cleaned and televised storm sewers along the property line between Lincoln Valley Subdivision and Banbury Ridge Townhomes, just north of Ridge Road | Debris and Sediment was recovered from the storm sewers and disposed of at appropriate dumping facilities. | <input checked="" type="checkbox"/> |
| BMP F.3 | Municipal Operations Storm Water Control | Village of North Aurora | May 26 June 15,16,16,20,21,22; August 5,8 August 29, 30, September 1, 2, 6 November 28,29,30 and December 1,2,5,6,7,8,9 | Village-wide | Street Sweeping the road network was performed on 22 days throughout the year and on 3 occasions after special events | Street Sweeping three times a year and after special events | <input checked="" type="checkbox"/> |
| BMP F.4 | Municipal Operations Waste Disposal | Village of North Aurora | As warranted | Public Works Facility | document disposal of materials where applicable | Wiper fluid spilled and was contained and disposed of properly | <input checked="" type="checkbox"/> |

*per NRCS construction site without erosion control can average a soil loss of 20-200 tons/acre/year

E.7. Calculation

| <u>No.</u> | <u>Development</u> | <u>Time [Years]</u> | <u>Area [ac]</u> | <u>Estimated Active Acres [%]</u> | <u>Erosions Multiplier [20 tn/ac-yr]</u> | <u>Tons Retained [tn]</u> |
|------------|------------------------------|---------------------|------------------|-----------------------------------|--|---------------------------|
| 1 | 950 Ice Cream | 0.75 | 14.12 | 75% | 20 | 158.85 |
| 2 | Aurora Pack | 1 | 12.22 | 100% | 20 | 244.40 |
| 3 | FMWRD Pump Station | 1 | 0.75 | 100% | 20 | 15.00 |
| 4 | Gerald Ford Hyundai | 0.416666667 | 0.85 | 15% | 20 | 1.06 |
| 5 | Lincoln Valley | 1 | 107 | 15% | 20 | 321.00 |
| 6 | Zepalak (Seasons) | 0.333333333 | 18.75 | 100% | 20 | 125.00 |
| 7 | Randall Terrace | 0.25 | 5.28 | 100% | 20 | 26.40 |
| 8 | Casey's | 0.25 | 1.38 | 100% | 20 | 6.90 |
| 9 | Fortunato | 0.833333333 | 0.69 | 100% | 20 | 11.50 |
| 10 | Lippold Park | 0.666666667 | 0.72 | 100% | 20 | 9.60 |
| 11 | Orchard Acres | 0.833333333 | 0.95 | 100% | 20 | 15.83 |
| 12 | Randall Square (access road) | 0.25 | 0.72 | 100% | 20 | 3.60 |
| 13 | Valley Green | 1 | 62.05 | 67% | 20 | 827.33 |
| | | | 225.48 | Total | | 1766.48 |

**VILLAGE OF NORTH AURORA NPDES MONITORING, RECORDKEEPING, REPORTING AND EVALUATION OF ESTIMATED POLLUTION REDUCTION
REPORTING PERIOD MARCH 2021 THROUGH MARCH 2022**

| BMP | Public Education and Outreach | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
|------------|--|-----------------------------------|--------------------------|---|--|--|-------------------------------------|
| BMP A.1 | Distributed Paper Material | Village of North Aurora | Fall 2021 | Village-wide & targeted at Spruce, Locust, Chestnut | 6,203 | North Aurora Days Festival was cancelled due to the Covid-19 pandemic. Distribution will resume at the next year's event. The Village included information in its April-May & August-September newsletters as an alternative to the festival distribution ; targeted low moderate income | <input checked="" type="checkbox"/> |
| BMP A.2 | Speaking Engagement | Village of North Aurora | February 21,2022 | Village Hall | 10 Participants | A memorandum was composed and a brief oral presentation conducted during the public hearing for the NPDES program at the February 21, 2022 Village Board Meeting | <input checked="" type="checkbox"/> |
| BMP A.3 | Public Service Announcements | Village of North Aurora | periodically | Village Web Site and Social Media | Posts to social media and Village web site are made at least once per reporting period. | Stormwater Pollution outreach was presented on the Village website and Facebook page. The information described the Village Program and where to locate additional resources. A Green Infrastructure policy was adopted on 10/18/21 and posted to the web site | <input checked="" type="checkbox"/> |
| BMP A.4 | Community Event | Village of North Aurora | Festival Cancelled | Oak and Randall Roads | 0 | North Aurora Days Festival was cancelled due to the Covid-19 pandemic. | <input checked="" type="checkbox"/> |
| BMP A.5 | Classroom Education Material Distributed | Village of North Aurora | 1/14/2022 | Various Schools | ~300 Students | Educational materials were distributed on January 14,2022. | <input checked="" type="checkbox"/> |
| BMP | Public Involvement and Participation | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP B.4 | Public Hearing | Village of North Aurora | February 15, 2021 | Village Hall | Approximately 10 community members were in the audience. | Residents may speak at any public Village meeting that generally meets the 1st and 3rd week of the month. Schedule for February 21, 2022 | <input checked="" type="checkbox"/> |
| BMP | Illicit Discharge Detection and Elimination | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP C.1 | Sewer Map Preparation | VONA Public Works and GIS Analyst | As warranted | Village-wide | The Village periodically updates its GIS database to reflect changes that occurred to the sewer atlas as a result of development or maintenance. | No new outfalls have been constructed to the Fox River. Outfalls for a respective developments are on file with within the specific project file folder update atlas necessary | <input checked="" type="checkbox"/> |
| BMP C.2 | Regulatory Control Program | Village of North Aurora | adopted May 2016 | Enforceable Village Wide | N/A | No violations have been issued during the reporting period. | <input checked="" type="checkbox"/> |

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|------------|--|--|--|-----------------------------|---|---|-------------------------------------|
| BMP C.3 | Detection/Elimination Prioritization Plan | Village of North Aurora, Village Engineer | Insepctions performed SPring 2022 | see folder BMP C.3. | Chesterfield Plaza, Woodmans, and the Town Center Mall including Target, JCP, Petco, etc. were inspected | Reduction of Inflow and Infiltration reduces the chance of sanitary sewer overflows decreasing the probability of stormwater pollution Document any cross connections identified. | <input checked="" type="checkbox"/> |
| BMP C.7 | Visual Dry Weather Screening | Village of North Aurora, Public Works Director, Engineering Intern | 3/23/2022 | 12", 15", 48" | 48" diameter RCP est of Oak Street; 15" diameter; RCP south of State Street Bridge; 12" diameter CMP | Pipes are clear with no evidence of illicit discharge or illegal connections, in fair condition. The 48" FES is starting to separate from the upstream pipe. Photographs are on file. | <input checked="" type="checkbox"/> |
| BMP | Construction Site Stormwater Runoff Control | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP D.1 | Regulatory Control Program | Village Engineer & Public Works Director | No updates to the stormwater control ordinance were made during the reporting period | Village Limits | There are approximately 10 developments that have been reviewed this reporting period. Review Letters kept in file | Updates to the stormwater management ordinance have been adopted, the new ordinance became effective June 1, 2019. The Village adopted these revisions by Ordinance 01-05-14-02 on August 5,2019 | <input checked="" type="checkbox"/> |
| BMP D.2 | Erosion and Sediment Control BMPs | Consulting Engineer, KDSWCD, Village Engineer | Various, see report print outs in file | Sites under construction | Lincoln Valley, 950 Icre Cream, Aurora Pack, FMWRD Pump Station, Gerald Ford, Randall Crossing, Soil Erosion Sediment Inspection reports kept in file. | 1101 Kilberry 1.04; Smiles Dental 2.06 ac., Lincoln Valley 107 ac.The total acreage is 135.98 ac * 20Tn/yr-ac = 1289.067ish Tn, estiamted tons of soil erosion prevented from entering streams by incorporating erosion an d sedimentation control measures. | <input checked="" type="checkbox"/> |
| BMP D.3 | Other Waste Control Program | Village of North Aurora, KDSWCD, Village Engineer | Various see report print outs in file (BMP D.2) | Sites under construction | Lincoln Valley, Smiles Dental, 1101 Kilberry, a few SFH infill in Lake Run & Tanner Trails | No written violations were issued during this reporting period. | <input checked="" type="checkbox"/> |
| BMP D.4 | Site Plan Review Procedures | Village Engineer, Public Works Director, & Consulting Engineer | various, but prior to permit issuance | Village Limits | Development punch lists are on file with the Village Engineer by project number, copies are provided and retained by the Village of North Aurora punch lists | Ensuring compliance with Village requirements reduces pollution by following codes, ordinances, construction standards for protection and improves safety | <input checked="" type="checkbox"/> |

| BMP | Post Construction Storm Water Management | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
|---------|---|---|--|--|--|--|-------------------------------------|
| BMP E.2 | Regulatory Control Program | Consulting Engineers & Village Engineer | various, but prior to permit issuance | Village Limits | Development punch lists are on file with the Village Engineer by project number, copies are provided and retained by the Village of North Aurora | Ensuring compliance with the Kane County stormwater ordinance reduces pollution due to decreased runoff rates and erosion control requirements. | <input checked="" type="checkbox"/> |
| BMP E.7 | Other Post-Construction Controls | Village of North Aurora | Planned during normal business operations however as-needed during or after storms | Village Wide | Village Engineer & Public Works Director | The Village performs periodic inspections of Village detention basins during normal business operations for maintenance and targeted inspections after significant rain events. Clean up is performed on a case by case basis and scheduling allows. | <input checked="" type="checkbox"/> |
| BMP | Pollution Prevention and Good Housekeeping for Municipal Operations | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP F.1 | Employee Training Program | Kane County, IAFSM | KCSWD January 20,2022; IAFSM March 10-11 2020 | KSWD Virtual Conference; IAFSM Virtual Conference | Village Engineer & Public Works Director | The Public Works Director and Village Engineer attend the IAFSM conference annually March . The director maintains a CPESC license. The Village Engineer and Public Works Director attended the annual Kane DuPage Soil Water Conservation Districts's Erosion Control Seminar | <input checked="" type="checkbox"/> |
| BMP F.2 | Inspection and Maintenance Program | Village of North Aurora | Continuously throughout the year | Public Works Facility & Village Storm Sewer System | This year the Village cleaned and televised storm sewers on Chestnut, Locust and Spruce Streets. | Debris and Sediment was recovered from the storm sewers and disposed of at appropriate dumping facilities. | <input checked="" type="checkbox"/> |
| BMP F.3 | Municipal Operations Storm Water Control | Village of North Aurora | week of 5/3/21, 7/26/21, 12/13/21 & after special events on 3/10/21, 4/27/21, &9/16/21 | Village-wide | document street sweeping dates formerly F2 | Street Sweeping three times a year and after special events | <input checked="" type="checkbox"/> |
| BMP F.4 | Municipal Operations Waste Disposal | Village of North Aurora | As warranted | Public Works Facility | document disposal of materials where applicable | Hydraulic Fluid escaped from a broken hose and was contained and disposed of properly | <input checked="" type="checkbox"/> |

*per NRCS construction site without erosion control can average a soil loss of 20-200 tons/acre/year

VILLAGE OF NORTH AURORA NPDES MONITORING, RECORDKEEPING, REPORTING AND EVALUATION OF ESTIMATED POLLUTION REDUCTION
REPORTING PERIOD MARCH 2020 THROUGH MARCH 2021

| BMP | Public Education and Outreach | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
|------------|--|---|--|-----------------------------------|--|--|-------------------------------------|
| BMP A.1 | Distributed Paper Material | Village of North Aurora | August 7,8,&9, 2020 August-September | Oak and Randall Roads | 6,203 | North Aurora Days Festival was cancelled due to the Covid-19 pandemic. Distribution will resume at the next year's event. The Village included information in its August-September newsletter as an alternative to the festival distribution | <input checked="" type="checkbox"/> |
| BMP A.2 | Speaking Engagement | Village of North Aurora | February 15,2021 | Village Hall | 10 Participants | A memorandum was composed and a brief oral presentation conducted during the public hearing for the NPDES program at the February 15, 2021 Village Board Meeting | <input checked="" type="checkbox"/> |
| BMP A.3 | Public Service Announcements | Village of North Aurora | September 24, 2020 | Village Web Site and Social Media | Posts to social media and Village web site are made at least once per reporting period. | Stormwater Pollution outreach was presented on the Village website and Facebook page. The information described the Village Program and where to locate additional resources. | <input checked="" type="checkbox"/> |
| BMP A.4 | Community Event | Village of North Aurora | North Aurora Days August 7,8,&9, 2020 Festival Cancelled | Oak and Randall Roads | 0 | North Aurora Days Festival was cancelled due to the Covid-19 pandemic. Distribution will resume at the next year's event. | <input checked="" type="checkbox"/> |
| BMP A.5 | Classroom Education Material Distributed | Village of North Aurora | September 24,2020 | Various Schools | ~300 Students | Educational materials are currently being revised and updated and will be distributed again in September 2020 at the beginning of the school year. | <input checked="" type="checkbox"/> |
| BMP | Public Involvement and Participation | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP B.4 | Public Hearing | Village of North Aurora | February 15, 2021 | Village Hall | No measurable public interest | Residents may speak at any public Village meeting that generally meets the 1st and 3rd week of the month. | <input checked="" type="checkbox"/> |
| BMP | Illicit Discharge Detection and Elimination | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP C.1 | Sewer Map Preparation | VONA Public Works and GIS Analyst | As warranted | Village-wide | The Village periodically updates its GIS database to reflect changes that occurred to the sewer atlas as a result of development or maintenance. | No new outfalls have been constructed to the Fox River. Outfalls for a respective developments are on file with within the specific project file folder | <input type="checkbox"/> |
| BMP C.2 | Regulatory Control Program | Village of North Aurora | adopted May 2016 | Enforceable Village Wide | N/A | No violations have been issued during the reporting period. | <input checked="" type="checkbox"/> |
| BMP C.3 | Detection/Elimination Prioritization Plan | Village of North Aurora, Village Engineer | Inseptions performed Winter 2020 | see folder BMP C.3. | Chesterfield Plaza, Woodmans, and the Town Center Mall including Target, JCP, Petco, etc. were inspected | Reduction of Inflow and Infiltration reduces the chance of sanitary sewer overflows decreasing the probability of stormwater pollution | <input checked="" type="checkbox"/> |

| | | | | | | | |
|------------|--|--|--|--------------------------|--|--|-------------------------------------|
| BMP C.7 | Visual Dry Weather Screening | Village of North Aurora, Village Engineer | 3/23/2020 | 12" Marvo | 12" diameter RCP at Silo | Pipe is clear with no evidence of illicit discharge or illegal connections, in good condition with grate on FES. Photographs are on file. | <input checked="" type="checkbox"/> |
| BMP | Construction Site Stormwater Runoff Control | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP D.1 | Regulatory Control Program | Village Engineer & Public Works Director | No updates to the stormwater control ordinance were made during the reporting period | Village Limits | Three new developments and Phase 3 of an existing development were reviewed during the reporting period for compliance with the stormwater ordinance. Correspondence is on file with Village of North Aurora | Updates to the stormwater management ordinance have been adopted, the new ordinance became effective June 1, 2019. The Village adopted these revisions by Ordinance 01-05-14-02 on August 5, 2019 | <input checked="" type="checkbox"/> |
| BMP D.2 | Erosion and Sediment Control BMPs | Consulting Engineer, KDSWCD, Village Engineer | Various, see report print outs in file | Sites under construction | Lincoln Valley, Smiles Dental, 1101 Kilberry | 1101 Kilberry 1.04; Smiles Dental 2.06 ac., Lincoln Valley 107 ac. The total acreage is 109.06 ac * 20Tn/yr/ac = 2,202 Tn, estimated tons of soil erosion prevented from entering streams by incorporating erosion and sedimentation control measures. | <input checked="" type="checkbox"/> |
| BMP D.3 | Other Waste Control Program | Village of North Aurora, KDSWCD, Village Engineer | Various see report print outs in file (BMP D.2) | Sites under construction | Lincoln Valley, Smiles Dental, 1101 Kilberry, a few SFH infill in Lake Run & Tanner Trails | No written violations were issued during this reporting period. | <input checked="" type="checkbox"/> |
| BMP D.4 | Site Plan Review Procedures | Village Engineer, Public Works Director, & Consulting Engineer | various, but prior to permit issuance | Village Limits | Development punch lists are on file with the Village Engineer by project number, copies are provided and retained by the Village of North Aurora | Ensuring compliance with Village requirements reduces pollution by following codes, ordinances, construction standards for protection and improves safety | <input checked="" type="checkbox"/> |
| BMP | Post Construction Storm Water Management | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP E.2 | Regulatory Control Program | Consulting Engineers & Village Engineer | various, but prior to permit issuance | Village Limits | Development punch lists are on file with the Village Engineer by project number, copies are provided and retained by the Village of North Aurora | Ensuring compliance with the Kane County stormwater ordinance reduces pollution due to decreased runoff rates and erosion control requirements. | <input checked="" type="checkbox"/> |
| BMP E.7 | Other Post-Construction Controls | Village of North Aurora | Planned during normal business operations however as-needed during or after storms | Village Wide | Two incidences are being evaluated the first in Tanner Trails Subdivision and the second in the Ridge Road Townhome subdivision | The Village performs periodic inspections of Village detention basins during normal business operations for maintenance and targeted inspections after significant rain events. Clean up is performed on a case by case basis and scheduling allows. | <input checked="" type="checkbox"/> |

| BMP | Pollution Prevention and Good Housekeeping for Municipal Operations | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
|---------|---|-------------------------|--|--|--|--|-------------------------------------|
| BMP F.1 | Employee Training Program | Kane County, IAFSM | KCSWD February 11 & 18 2020; IAFSM March 11-12 2020 | KSWD Virtual Conference; IAFSM Tinley Park, IL | Village Engineer & Public Works Director | The Public Works Director attends the IAFSM conference annually March . The director maintains a CPESC license. The Village Engineer and Public Works Director attended the annual Kane DuPage Soil Water Conservation Districts's Erosion Control Seminar | <input checked="" type="checkbox"/> |
| BMP F.2 | Inspection and Maintenance Program | Village of North Aurora | April 14-16, July 20-24, November 30-December 11, 2020 | Throughout the Village | All major Village streets were cleaned, funding was not available for storm sewer cleaning this reporting period | North Aurora performs regular maintenance on their vehicles, wash waste is tributary to the sanitary sewer. Village streets are swept every fall and spring, catch basins are cleaned as funding permits | <input checked="" type="checkbox"/> |

*per NRCS construction site without erosion control can average a soil loss of 20-200 tons/acre/year

VILLAGE OF NORTH AURORA NPDES MONITORING, RECORDKEEPING, REPORTING AND EVALUATION OF ESTIMATED POLLUTION REDUCTION
REPORTING PERIOD MARCH 2019 THROUGH MARCH 2020

| BMP | Public Education and Outreach | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
|------------|--|---|---|-----------------------------------|---|--|-------------------------------------|
| BMP A.1 | Distributed Paper Material | Village of North Aurora | August 2,3,&4, 2019 | Oak and Randall Roads | 75 pamphlets +/- | Pamphlets passed out in August at North Aurora Days Festival Publications include Water World Brochure and Stop That Drop. | <input checked="" type="checkbox"/> |
| BMP A.2 | Speaking Engagement | Village of North Aurora | September 18, 2019 | Village Hall | 10 Participants | Village staff gave a presentation of the NPDES program to approximately 10 participants. Staff also held a public hearing and described the NPDES program at the February 17, 2020 Village Board Meeting | <input checked="" type="checkbox"/> |
| BMP A.3 | Public Service Announcements | Village of North Aurora | April 25, 2019 | Village Web Site and Social Media | Posts to social media and Village web site are made at least once per reporting period. | Stormwater Pollution outreach was presented on the Village website and Facebook page. The information described the Village Program and where to locate additional resources. | <input checked="" type="checkbox"/> |
| BMP A.4 | Community Event | Village of North Aurora | North Aurora Days August 2,3,&4, 2019 | Oak and Randall Roads | 75 pamphlets +/- | Pamphlets passed out in August at North Aurora Days Festival Publications include Water World Brochure and Stop That Drop. | <input checked="" type="checkbox"/> |
| BMP A.5 | Classroom Education Material Distributed | Village of North Aurora | ongoing | Various Schools | ~300 Students | Educational materials are currently being revised and updated and will be distributed again in September 2019 at the beginning of the school year. | <input checked="" type="checkbox"/> |
| BMP | Public Involvement and Participation | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP B.4 | Public Hearing | Village of North Aurora | February 17, 2020 | Village Hall | No measurable public interest | Residents may speak at any public Village meeting that generally meets the 1st and 3rd week of the month.KDSWCD gave a presentation at the Public Hearing held February 17,2020 | <input checked="" type="checkbox"/> |
| BMP | Illicit Discharge Detection and Elimination | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP C.1 | Sewer Map Preparation | Village Engineer/Village of North Aurora | As-built information from development added to the utility atlas as it is available | N/A | The Village has transitioned its storm sewer atlas from uneditable .pdf electronic format, into a GIS format. | No new outfalls have been constructed to the Fox River. Outfalls for a respective developments are on file with the Village Engineer within the specific project file folder | <input checked="" type="checkbox"/> |
| BMP C.2 | Regulatory Control Program | Village of North Aurora | adopted May 2016 | Enforceable Village Wide | N/A | No violations have been issued during the reporting period. | <input checked="" type="checkbox"/> |
| BMP C.3 | Detection/Elimination Prioritization Plan | Village of North Aurora, Village Engineer | Televising completed October 9, 2019, inspections performed Winter 2019 | see folder BMP C.3. | The Village televised 193,973 linear feet of sanitary sewer in the 2017-2018 fiscal year. Businesses at 8 & 10 Marvo, and 12 John were inspected for material storage | Reduction of Inflow and Infiltration reduces the chance of sanitary sewer overflows decreasing the probability of stormwater pollution | <input checked="" type="checkbox"/> |

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|------------|--|---|--|--------------------------------|--|--|-------------------------------------|
| BMP C.7 | Visual Dry Weather Screening | Village of North Aurora, Village Engineer | 3/5/2020 | 12" Riverview 24" Riverview | 12" diameter CMP at Aurora Pack 24" diameter CMP pipe on Riverview that both discharge to Fox River were inspected. | All pipes are clear with no evidence of illicit discharge or illegal connections. Pipes beginning to rust. Photographs are on file. | <input checked="" type="checkbox"/> |
| BMP | Construction Site Stormwater Runoff Control | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP D.1 | Regulatory Control Program | Village of North Aurora, Village Engineer | No updates to the stormwater control ordinance were made during the reporting period | Village Limits | New developments were reviewed during the reporting period for compliance with the stormwater ordinance. Correspondence is on file with the Village Engineer and copies with Village of North Aurora | Updates to the stormwater management ordinance have been adopted, the new became effective June 1, 2019. The Village will adopted these revisions by Ordinance 01-05-14-02 | <input checked="" type="checkbox"/> |
| BMP D.2 | Erosion and Sediment Control BMPs | Village of North Aurora, KDSWCD, Village Engineer | Various, see report print outs in file | Sites under construction | Lincoln Valley, Smiles Dental | Smiles Dental 2.06 ac., Lincoln Valley 107 ac. The total acreage is 109.06 ac * 20Tn/yr/ac = 2,181.2 Tn, estimated tons of soil erosion prevented from entering streams by incorporating erosion and sedimentation control measures. | <input checked="" type="checkbox"/> |
| BMP D.3 | Other Waste Control Program | Village of North Aurora, KDSWCD, Village Engineer | Various see report print outs in file (BMP D.2) | Sites under construction | Lincoln Valley, Smiles Dental | No written violations were issued during this reporting period. | <input checked="" type="checkbox"/> |
| BMP D.4 | Site Plan Review Procedures | Village Engineer | various, but prior to permit issuance | Village Limits | Developments are on file with the Engineer by project number and copies at Village of North Aurora | Ensuring compliance with Village requirements reduces pollution by following codes, ordinances, construction standards for protection and improves safety | <input checked="" type="checkbox"/> |
| BMP | Post Construction Storm Water Management | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP E.2 | Regulatory Control Program | Village Engineer | various, but prior to permit issuance | Village Limits | Developments are on file with the Village Engineer by project number, copies are provided and retained by the Village of North Aurora | Ensuring compliance with the Kane County stormwater ordinance reduces pollution due to decreased runoff rates and erosion control requirements. | <input checked="" type="checkbox"/> |
| BMP E.7 | Other Post-Construction Controls | Village of North Aurora | Planned during normal business operations however as-needed during or after storms | Village Wide | identified a sink hole and repaired the 24" diameter pipe in the Tanner Trails Subdivision | The Village performs periodic inspections of Village detention basins during normal business operations for maintenance and targeted inspections after significant rain events. Clean up is performed on a case by case basis and scheduling allows. Eliminated the source of sediment introduced into the storm sewer system from the sink hole. Cleaned the storm sewer and removed sediment that had collected. | <input checked="" type="checkbox"/> |
| BMP | Pollution Prevention and Good Housekeeping for Municipal Operations | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |

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|------------|------------------------------------|-------------------------|--|---------------------------|--|---|-------------------------------------|
| BMP F.1 | Employee Training Program | Village of North Aurora | KCSWD, October 2019 IAFSM, March 2020 APWA, September 2019 | Village Hall | Public Works Street Division Employees and Public Works Director | Village employees attended training in October 3, 2019 by KCSWCD. The Public Works Director attends the IAFSM conference annually March and APWA PWX September 7-11, 2019. The director maintains a CPESC license | <input checked="" type="checkbox"/> |
| BMP F.2 | Inspection and Maintenance Program | Village of North Aurora | May 28 - June 4, 2019 September 12, 2019 | Throughout the Village | All major Village streets were cleaned, funding was not available for storm sewer cleaning this reporting period | North Aurora performs regular maintenance on their vehicles, wash waste is tributary to the sanitary sewer. Village streets are swept every fall and spring, catch basins are cleaned as funding permits | <input checked="" type="checkbox"/> |

*per NRCS construction site without erosion control can average a soil loss of 20-200 tons/acre/year

VILLAGE OF NORTH AURORA NPDES MONITORING, RECORDKEEPING, REPORTING AND EVALUATION OF ESTIMATED POLLUTION REDUCTION
REPORTING PERIOD MARCH 2018 THROUGH MARCH 2019

| BMP | Public Education and Outreach | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
|------------|--|--|---|--------------------------|---|--|-------------------------------------|
| BMP A.1 | Distributed Paper Material | Village of North Aurora | August 4, 2019 | Oak and Randall Roads | 75 pamphlets +/- | Pamphlets passed out in August at North Aurora Days Festival ticket booth. Publications include Water World Brochure, Stop That Drop, | <input checked="" type="checkbox"/> |
| BMP A.2 | Speaking Engagement | Village of North Aurora | March 4, 2019 | Village Hall | 10 Residents | Village staff gave a presentation of the NPDES program at the Public Hearing held March 4, 2019. Approximately 10 residents were in attendance. | <input checked="" type="checkbox"/> |
| BMP A.3 | Public Service Announcements | Village of North Aurora | March 11, 2019 | N/A | PSA is being revised/ email blast sent to 313 residents | Stormwater Pollution outreach was sent to residents via an email blast and the PSA is being revised and will resume airing in the subsequent reporting year. | <input checked="" type="checkbox"/> |
| BMP A.4 | Community Event | Village of North Aurora | August for North Aurora Days | Oak and Randall Roads | 75 pamphlets +/- | passed out NPDES materials at the Annual North Aurora Days Festival in August | <input checked="" type="checkbox"/> |
| BMP A.5 | Classroom Education Material Distributed | Village of North Aurora | ongoing | Various Schools | 0 | Educational materials are currently being revised and updated and will be distributed again in September 2019 at the beginning of the school year. | <input checked="" type="checkbox"/> |
| BMP | Public Involvement and Participation | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP B.4 | Public Hearing | Village of North Aurora | March 4, 2019 | Village Hall | No measurable public interest | Residents may speak at any public Village meeting that generally meets the 1st and 3rd week of the month.KDSWCD gave a presentation at the Public Hearing held March 4, 2019 | <input checked="" type="checkbox"/> |
| BMP | Illicit Discharge Detection and Elimination | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP C.1 | Sewer Map Preparation | Village Engineer/Village of North Aurora | As-built information from development added to the utility atlas as it is available | N/A | Mostly minor commercial development has occurred during the reporting period within existing developments where detention has already been provided. This period the Springs has been added to our atlas. | No new outfalls have been constructed to the Fox River. Outfalls for a respective developments are on file with the Village Engineer within the specific project file folder | <input checked="" type="checkbox"/> |
| BMP C.2 | Regulatory Control Program | Village of North Aurora | adopted May 2016 | Enforceable Village Wide | N/A | No violations have been issued during the reporting period. | <input checked="" type="checkbox"/> |

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|------------|--|---|---|--|---|--|-------------------------------------|
| BMP C.3 | Detection/Elimination Prioritization Plan | Village of North Aurora, Village Engineer | Engineering Agreement was composed Nov, 27 2018, project was awarded on March 8, 2019 | see folder BMP C.3. | The Village began televising 183,654 linear feet of 8" diameter, 33,107 linear feet of 10" diameter, and 24,402 linear feet of 12" diameter sanitary sewer in 2019 and will continue through fall of 2019 | Reduction of Inflow and Infiltration reduces the chance of sanitary sewer overflows decreasing the probability of stormwater pollution | <input checked="" type="checkbox"/> |
| BMP C.7 | Visual Dry Weather Screening | Village of North Aurora, Village Engineer | early July | inspected outfall north of Village Hall west bank of River | This outfall releases directly into the Wetland Area and | The condition with no evidence of illicit discharge or illegal connections. Location map is on file. Photograph was not taken | <input checked="" type="checkbox"/> |
| BMP | Construction Site Stormwater Runoff Control | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP D.1 | Regulatory Control Program | Village of North Aurora, Village Engineer | No updates to the stormwater control ordinance were made during the reporting period | Village Limits | New developments were reviewed during the reporting period for compliance with the stormwater ordinance. Correspondence is on file with the Village Engineer and copies with Village of North Aurora | Updates to the stormwater management ordinance have been adopted, the new ordinance will be effective June 1, 2019. The Village will adopt these revisions by Ordinance 01-05-14-02 | <input checked="" type="checkbox"/> |
| BMP D.2 | Erosion and Sediment Control BMPs | Village of North Aurora, KDSWCD, Village Engineer | Various, see report print outs in file | Sites under construction | MO-KA, Lincoln Valley, North Aurora Smiles | Smiles Dental 2.06 ac., Lincoln Valley 102.67 ac., North Aurora Infrastructure 18 ac., Lodgings Randall Crossings 2.83 ac., Liberty Business Center Bldg. 151 ac., North Aurora Storage 11.95 ac. The total acreage is 67.84 122.73 ac * 20Tn/yr/ac = 1,356.8 2454.6 Tn, estimated tons of soil erosion prevented from entering streams by incorporating erosion and sedimentation control measures. | <input checked="" type="checkbox"/> |
| BMP D.3 | Other Waste Control Program | Village of North Aurora, KDSWCD, Village Engineer | Various see report print outs in file (BMP D.2) | Sites under construction | None | No written violations were issued during this reporting period. | <input checked="" type="checkbox"/> |
| BMP D.4 | Site Plan Review Procedures | Village Engineer | various, but prior to permit issuance | Village Limits | Developments are on file with the Village Engineer by project number and copies at Village of North Aurora | Ensuring compliance with Village requirements reduces pollution by following codes, ordinances, construction standards for protection and improves safety | <input checked="" type="checkbox"/> |
| BMP | Post Construction Storm Water Management | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP E.2 | Regulatory Control Program | Village Engineer | various, but prior to permit issuance | Village Limits | Developments are on file with the Village Engineer by project number, copies are provided and retained by the Village of North Aurora | Ensuring compliance with the Kane County stormwater ordinance reduces pollution due to decreased runoff rates and erosion control requirements. | <input checked="" type="checkbox"/> |

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|------------|--|-------------------------|--|------------------------|--|--|-------------------------------------|
| BMP E.7 | Other Post-Construction Controls | Village of North Aurora | during normal business operations | Village Wide | No major issues of concern were reported. No significant maintenance was performed | The Village performs periodic inspections of Village detention basins during normal business operations for maintenance and targeted inspections after significant rain events. Clean up is performed on a case by case basis and scheduling allows. This year outfalls were cleared at Windstone, Remington Landing, Willow Lakes, and Banbury Ridge Estates retention ponds. | <input checked="" type="checkbox"/> |
| BMP | Pollution Prevention and Good Housekeeping for Municipal Operations | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP F.1 | Employee Training Program | Village of North Aurora | March 2016 and 2017 | Village Hall | Public Works Street Division Employees | The Village provided employee training in October 2018 and March 2019. The Public Works Director attends the IAFSM conference annually where soil erosion topics are addressed. This employee is a retains a CPESC license. | <input checked="" type="checkbox"/> |
| BMP F.2 | Inspection and Maintenance Program | Village of North Aurora | June 5-8, 2018, August 9, 2018, November 26-December, 7 2018 | Throughout the Village | All major Village streets were cleaned, funding was not available for storm sewer cleaning this reporting period | North Aurora performs regular maintenance on their vehicles, wash waste is tributary to the sanitary sewer. Village streets are swept every fall and spring, catch basins are cleaned as funding permits | <input checked="" type="checkbox"/> |

*per NRCS construction site without erosion control can average a soil loss of 20-200 tons/acre/year

VILLAGE OF NORTH AURORA NPDES MONITORING, RECORDKEEPING, REPORTING AND EVALUATION OF ESTIMATED POLLUTION REDUCTION
REPORTING PERIOD MARCH 2017 THROUGH MARCH 2018

| BMP | Public Education and Outreach | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
|------------|--|---|---|--------------------------|--|---|-------------------------------------|
| BMP A.1 | Distributed Paper Material | Village of North Aurora | August for North Aurora Days | Oak and Randall Roads | 25 pamphlets +/- | Pamphlets passed out in August at North Aurora Days Festival booth. "Help Reduce Storm Water Pollution" posted on North Aurora's webpage | <input checked="" type="checkbox"/> |
| BMP A.2 | Speaking Engagement | Village of North Aurora | March 20, 2017 | Village Hall | Approximately 20 residents attended Gov 101 | KDSWCD gave a presentation at the Public Hearing held March 20, 2017. The Village conducted a seminar called Government 101. During the Public Works presentation the NPDES program was explained. Approximately 20 residents were in attendance. | <input checked="" type="checkbox"/> |
| BMP A.3 | Public Service Announcements | Village of North Aurora | week of 1/22/17 | N/A | Bulletin ran for 1 week | Stormwater Pollution outreach was advertised on the Fox Valley Cable channel | <input checked="" type="checkbox"/> |
| BMP A.4 | Community Event | Village of North Aurora | August for North Aurora Days | Oak and Randall Roads | 25 pamphlets +/- | passed out NPDES materials at the Annual North Aurora Days Festival in August | <input checked="" type="checkbox"/> |
| BMP A.5 | Classroom Education Material Distributed | Village of North Aurora | 1/22/2018 | Various Schools | reached ~ 305 students | Pamphlets were delivered to Goodwin, Fern and Schneider Elementary Schools | <input checked="" type="checkbox"/> |
| BMP | Public Involvement and Participation | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP B.4 | Public Hearing | Village of North Aurora | 1st and 3rd week of the month | Village Hall | No measurable public interest | Residents may speak at any public Village meeting that generally meets the 1st and 3rd week of the month. KDSWCD gave a presentation at the Public Hearing held March 5, 2018 | <input checked="" type="checkbox"/> |
| BMP | Illicit Discharge Detection and Elimination | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP C.1 | Sewer Map Preparation | Village Engineer | no updates performed during this reporting period | N/A | Mostly minor development has occurred during the reporting period within existing developments where detention has already been provided | No new outfalls have been constructed to the Fox River. Outfalls for a respective developments are on file with the Village Engineer within the specific project file folder | <input checked="" type="checkbox"/> |
| BMP C.2 | Regulatory Control Program | Village of North Aurora | adopted May 2016 | Enforceable Village Wide | N/A | No violations have been issued during the reporting period. | <input checked="" type="checkbox"/> |
| BMP C.3 | Detection/Elimination Prioritization Plan | Village of North Aurora, Village Engineer | Pre construction meeting was in October | see folder BMP C.3. | The Village is planning on televising 128,000 linear feet of sanitary sewer in the 2017-2018 fiscal year | Reduction of Inflow and Infiltration reduces the chance of sanitary sewer overflows decreasing the probability of stormwater pollution | <input checked="" type="checkbox"/> |

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| BMP C.7 | Visual Dry Weather Screening | Village of North Aurora, Village Engineer | 12/8/2017 | 12" PVC White 12" PVC Green 10" PVC Green 8" PVC Green 12" PVC w/flap gate | 5 outfalls located west on Grant Street behind the residential properties south of the State Street Bridge | All pipe are in good condition with no evidence of illicit discharge or illegal connections. Photographs are on file. | <input checked="" type="checkbox"/> |
| BMP | Construction Site Stormwater Runoff Control | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP D.1 | Regulatory Control Program | Village of North Aurora, Village Engineer | No updates to the stormwater control ordinance were made during the reporting period | Village Limits | New developments were reviewed during the reporting period for compliance with the stormwater ordinance. Correspondence is on file with the Village Engineer and copies with Village of North Aurora | Kane County distributed an RFP for Stormwater Ordinance updates on February 21, 2017 by Kane County. As revisions are proposed to the ordinance the Village will review proposed changes and adopt relevant revisions. | <input checked="" type="checkbox"/> |
| BMP D.2 | Erosion and Sediment Control BMPs | Village of North Aurora, KDSWCD, Village Engineer | Various, see report print outs in file | Sites under construction | Smiles Dental, N.A. Lodgings Randall Crossings, Liberty Business Center Bldg. 1, North Aurora Storage | Smiles Dental 2.06 ac., N.A. Lodgings Randall Crossings 2.83 ac., Liberty Business Center Bldg. 151 ac., North Aurora Storage 11.95 ac. The total acreage is 67.84 ac * 20Tn/yr/ac = 1,356.8 Tn, estimated tons of soil erosion prevented from entering streams by incorporating erosion and sedimentation control measures. | <input checked="" type="checkbox"/> |
| BMP D.3 | Other Waste Control Program | Village of North Aurora, KDSWCD, Village Engineer | Various see report print outs in file (BMP D.2) | Sites under construction | Smiles Dental, N.A. Lodgings Randall Crossings, Liberty Business Center Bldg. 1, North Aurora Storage | No written violations were issued during this reporting period. | <input checked="" type="checkbox"/> |
| BMP D.4 | Site Plan Review Procedures | Village Engineer | various, but prior to permit issuance | Village Limits | developments are on file with the Village Engineer by project number and copies at Village of North Aurora | Ensuring compliance with Village requirements reduces pollution by following codes, ordinances, construction standards for protection and improves safety | <input checked="" type="checkbox"/> |
| BMP | Post Construction Storm Water Management | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |
| BMP E.2 | Regulatory Control Program | Village Engineer | various, but prior to permit issuance | Village Limits | Developments are on file with the Village Engineer by project number, copies are provided and retained by the Village of North Aurora | Ensuring compliance with the Kane County stormwater ordinance reduces pollution due to decreased runoff rates and erosion control requirements. | <input checked="" type="checkbox"/> |
| BMP E.7 | Other Post-Construction Controls | Village of North Aurora | during normal business operations | Village Wide | No major issues of concern were reported. No significant maintenance was performed | The Village performs periodic inspections of Village detention basins during normal business operations for maintenance and targeted inspections after significant rain events. Clean up is performed on a case by case basis and scheduling allows | <input checked="" type="checkbox"/> |
| BMP | Pollution Prevention and Good Housekeeping for Municipal Operations | Key Organizer(s) | Date(s) Performed | Location(s) | Quantity Descriptor(s) (number, attendance, incidences, etc.) | Estimated Pollution Reduction, result, effect, response, actions taken or notes | Completed? |

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|------------|------------------------------------|-------------------------|------------------------------|------------------------|--|--|-------------------------------------|
| BMP F.1 | Employee Training Program | Village of North Aurora | March 2016 and 2017 | Village Hall | Public Works Street Division Employees | The Village provided employee training in March of 2017 and 2018. The Public Works Director attends the IAFSM conference annually where soil erosion topics are addressed. This employee is a retains a CPESC license. | <input checked="" type="checkbox"/> |
| BMP F.2 | Inspection and Maintenance Program | Village of North Aurora | 1/23/16, 7/12/17, 12/4/17 | Throughout the Village | All major Village streets were cleaned, funding was not available for storm sewer cleaning this reporting period | North Aurora performs regular maintenance on their vehicles, wash waste is tributary to the sanitary sewer. Village streets are swept every fall and spring, catch basins are cleaned as funding permits | <input checked="" type="checkbox"/> |

*per NRCS construction site without erosion control can average a soil loss of 20-200 tons/acre/year