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May 30, 2019

Ms. Terri LeMasters  
Illinois Environmental Protection Agency, DWPC  
Compliance Assurance Section #19  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

Re: Village of Mokena, NPDES Phase II Annual Update (2018/2019)  
HR Green Job No. 190554

Dear Ms. LeMasters:

Enclosed please find the NPDES Phase II - Year 16 Annual Report for the Village of Mokena. As the representative of the Village, HR Green, Inc. coordinated with the Village in the completion of the enclosed Annual Report for continued coverage under the General Permit, issued by the Illinois EPA.

If you have any questions, please contact me at 815-759-8370 or at [lgilbertsen@hrgreen.com](mailto:lgilbertsen@hrgreen.com)

Sincerely,

**HR GREEN, INC.**

A handwritten signature in black ink, appearing to read 'Logan Gilbertsen'.

**Logan Gilbertsen, P.E., CFM**  
Water Resources Engineer

LRG/

Enclosure

cc: Mr. Dan Peloquin, PE, Village of Mokena

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# 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, 2018 To March, 2019

Permit No. ILR40 \_\_\_\_\_

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

Name: Village of Mokena Mailing Address 1: 11004 Carpenter Street

Mailing Address 2: \_\_\_\_\_ County: Will

City: Mokena State: IL Zip: 60448 Telephone: 708-479-3900

Contact Person: Dan Peloquin / Logan Gilbertsen (HR Green) Email Address: dpeloquin@mokena.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 Mokena

#### 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))**

Louis Tiberi  
Owner Signature:

Louis Tiberi  
Printed Name:

5/30/19  
Date:

PW Director  
Title:

EMAIL COMPLETED FORM TO: [epa.ms4annualinsp@illinois.gov](mailto: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 Mokena**  
**NPDES Phase II – Year Sixteen (March 2018-March 2019) Annual Report Summary**

**Table of Contents**

**Part A. Changes to Best Management Practices ..... A-1**

**Part B. Status of Compliance with Permit Conditions..... B-1**

**Part C. Information and Data Collection Results ..... C-1**

**Part D. Summary of Year 17 Stormwater Activities ..... D-1**

**Part E. Notice of Qualifying Local Program ..... E-1**

**Part F. Construction Projects Conducted During Year 16 ..... F-1**

## **Part A. Changes to Best Management Practices**

There were no changes in Year 16 to the Best Management Practices (BMPs) that were outlined in the NOI submitted by the Village of Mokena to the IEPA on May 24, 2016.

The Village has reviewed the Illinois Environmental Protection Agency's (IEPA) website for current information regarding approved or ongoing Total Maximum Daily Load (TMDL) limits on streams within the Municipal Separate Storm Sewer System (MS4) service area. There are currently no TMDLs approved or ongoing, therefore no changes to the existing BMP's will be required to comply with a TMDL at this time.

The Village has previously reviewed Part V. Monitoring, Recordkeeping and Reporting of the General NPDES Permit ILR-40 and has begun an evaluation available monitoring options. The Village has been providing support to the Hickory Creek Watershed Planning Group for monitoring the pollutant loading in the Hickory Creek watershed. The Village has been paying a membership fee to the Hickory Creek Watershed Planning Group which was over \$10,000. The Watershed Planning Group is currently in the process of dissolving and the Village will be joining the Lower Des Plaines River Watershed Group.

## **Part B. Status of Compliance with Permit Conditions**

The status of BMPs and measurable goals performed in Year 16 are described below.

### **1. Public Education and Outreach**

#### **A.1 Distributed Material**

**Measurable Goals:** The Village currently issues an online newsletter and has NPDES information on their website. An article pertaining to stormwater will be included in the newsletter and/or on the website at least one time per year. The Village will also identify Environmental Justice (EJ) areas that may exist within the MS4 and address Public Education and Outreach accordingly.

**Status:** The Village has been distributing electronic newsletters and has included articles pertaining to pond clean ups, volunteer days and tree planting tips. The Village also maintains relevant articles on the Village's website.  
<http://www.mokena.org/pview.aspx?id=20807>

The Village has previously researched the existence of EJ areas within the MS4 using the <https://ejscreen.epa.gov/mapper/> tool and has determined that there are no EJ areas within the MS4.

The Village has posted information regarding climate change on their website. A link to the U.S. EPA's website is provided <http://epa.gov/climatechange/> The Village is in the process of locating additional sources of climate change information.

#### **A.3 Public Service Announcement**

**Measurable Goals:** The Village currently provides access to educational video on cable television. Some of these videos pertain to stormwater pollution.

**Status:** The Village did not air any videos on public television in Year 16. The Village is currently working to add videos to their website which provide education benefits. The Village feels that these will be viewed by a greater number of people than the previous method of putting videos on public television.

#### **A.4 Community Event**

**Measurable Goals:** The Village has an organized community Clean-Up Day. It was introduced in April 1991 and relies on volunteers from the community. The Village aims to involve 50 volunteers per year. The Village also participated in the Hickory Creek Watershed Group and will continue to participate in this group.

**Status:** The Village has continued to host Clean-Up Day. In recent years they have seen over 200 volunteers participate. This year's cleanup day had more volunteers than the previous year and included tree and wildflower planting as well as special waste collection services.

The Village has continued to participate in the Hickory Creek Watershed Planning Group and plans on providing a link on Village's website to the Watershed Group's website. In the past year the Village has participated in a Section 319 Grant funded project with the Hickory Creek Watershed Group to stabilize streambanks along the East Branch of Marley Creek. The project was constructed in the summer of 2018.

Additionally, the Village hosted an event with the Hickory Creek Watershed Planning Group called the BioBlitz. The BioBlitz allowed residents to assist scientists with macroinvertebrate identification and calculation of the MBI/mIBI score for the local waterway.

#### **Public Education and Outreach Evaluation –**

The program is doing an excellent job at educating the public. The information provided at events such as the cleanup day has spurred conversations about stormwater and the Village feels that the program is helping people get involved.

## **2. Public Participation/Involvement**

### **B.4 Public Hearing**

**Measurable Goals:** The Village will discuss the NPDES program or a topic relating to stormwater pollution at a Village Board meeting or other public event at least once annually.

**Status:** The Village discussed the NPDES program and stormwater pollution at a public meeting. It was not a specific agenda item however the East Branch Marley Creek streambank stabilization project was discussed at a Council meeting. The project was discussed both for need and why the design incorporated native vegetation for streambank stabilization.

Additionally, the BioBlitz was discussed at a public meeting as a method of advertising the event and coordinating the logistics of the event.

### **B.6 Program Coordination**

**Measurable Goals:** The Village has an Adopt-A-Roadway program whereby public or private organizations or clubs can offer to clean up highway ditches (part of the MS4) on a bi-annual basis. The Village will continue to promote this program to provide opportunities for public involvement. The Village strives to maintain at least one volunteer per site.

**Status:** The Village has continued to maintain the Adopt-A-Roadway program whereby public or private organizations or clubs can offer to clean up highway ditches (part of the MS4) on a bi-annual basis. This program is promoted on the Village's website. Similar to the Adopt-A-Roadway program, the Village promotes an Adopt-A-Pond program where volunteers can help maintain clean aquatic environments and a Prairie Planting program for planting empty lots. The Village has been maintaining a steady number of volunteers with no changes in the total number of volunteers in year 16.

#### **Public Participation/Involvement Evaluation –**

The Village feels that the current program is excellent and has been successful in getting people involved.

## **3. Illicit Discharge Detection and Elimination**

### **C.1 Storm Sewer Map Preparation**

**Measurable Goals:** The Village will complete an outfall map along with mapping all of its known or observed storm sewers and culverts, and will update the map, as needed.

Status: The Village had a complete outfall map in AutoCAD and printed format and has completed a full conversion to a GIS format. The Village plans on expanding the capabilities of its GIS outfall data. The Village has continued to maintain the Storm Sewer Outfall Map. No new outfalls were located and no new constructed.

### **C.2 Illicit Discharge Detection and Elimination (IDDE) Ordinance**

Measurable Goals: The Village will adopt and enforce an Illicit Discharge Detection and Elimination (IDDE) Ordinance and make updates to the Ordinance as needed.

Status: The Village board has adopted ordinance number 2014-0-048. The Village now has an enforceable IDDE Ordinance and will continue to enforce and update the ordinance on an as-needed basis. In the past year the Village has not had any instances where enforcement of the IDDE Ordinance was required.

### **C.3 Detection/Elimination Prioritization Plan**

Measurable Goals: The Village will utilize Dry Weather Screening to identify illicit discharges. The Storm Sewer Outfall Map will aid in identifying areas at risk for illicit discharges. Outlets shown on the Outfall Map will be prioritized and visited at least once annually and all outfalls visited at least once every 5 years. The Village does not have any hot spot areas designated as there are very few industrial areas in the MS4. The Village does perform spot checks on catch basins within the small industrial area.

Status: The Village has continued developing, training, and educating employees to perform activities such as illicit discharge tracing procedures and visual dry weather outfall screening. The Village has prioritized the outfalls and has a goal of visiting a minimum of 10 per year and a goal of visiting each outfall at least once every 5 years. In Year 16, Village staff visited the planned number of outfalls and filled out inspection forms for each visited outfall. The Village is considering investing in an electronic method of tracking when the outfalls were visited rather than keeping paper records as it currently does.

### **C.4 Illicit Discharge Tracing Procedures**

Measurable Goals: The Village will continue to develop, train, and educate employees in relevant positions to perform activities such as illicit discharge tracing procedures and visual dry weather stormwater outfall screening. The Village will utilize these Tracing Procedures to find the source of illicit discharges. The Storm Sewer Outfall Map and Storm Sewer Map will assist in identifying areas to be inspected.

Status: The Village has developed illicit discharge tracing procedures, and will implement the procedures through the training and education of employees. The Village has protocol in place for dealing with the possible discovery of any illicit discharges.

### **C.5 Illicit Source Removal Procedures**

Measurable Goals: The Village will develop written procedures and perform Illicit Discharge evaluations in accordance with BMPs C.4 and C.7. If any illicit discharges are suspected or found, The Village will inform the County for further enforcement action, under the County Ordinances.

Status: The Village has continued developing procedures and will continue to perform Illicit Discharge evaluation in accordance with BMPs C.4 and C.7. With the adoption of the IDDE Ordinance, the Village now has the ability to issue violations for offenders. No illicit discharges were discovered in Year 16.

#### **C.7 Visual Dry Weather Screening**

Measurable Goals: The Village will use visual dry weather screening to identify illicit discharges. A multi-year schedule will be prepared for visiting each known outlet to perform the screening in accordance with the priority areas identified in C.3. A standardization form will be used to keep a record of the screenings as they take place.

Status: The Village has been completing scheduled visits of known outfalls and will continue visiting outfalls. The Village has prioritized the outfalls and has developed the goal of visiting a minimum of 10 outfalls per year and visiting all outfalls at least once every 5 years. The Village does not have any high priority outfalls. In Year 16, Village staff visited the planned number of outfalls and filled out inspection forms for each visited outfall. The Village is considering investing in an electronic method of tracking when the outfalls were visited rather than keeping paper records as it currently does.

#### **C.8 Pollutant Field Testing**

Measurable Goals: The Village will test water samples collected during dry weather outfall inspections if an illicit discharge is suspected. The Village will keep a record of the test results.

Status: The Village currently utilizes the laboratory at their municipal wastewater facility to test water samples collected at outfalls and in local ponds. The Village tests for fecal coliforms, pH, and chlorine. The results are kept on record to establish a baseline level of pH, chlorine and fecal coliforms for the outfalls tested. In Year 16, no illicit discharges were suspected.

#### **C.10 Public IDDE Reporting Hotline**

Measurable Goals: The Village will organize and maintain a hotline for residents to report suspicious stormwater discharges or possible illegal dumping.

Status: The Village has a hotline to report issues and will continue this service. The hotline phone number is (708) 479-3927 and additional contact information is available here: <https://mokena.municipalcms.com/forms.aspx?fid=555>

#### **Illicit Discharge Detection and Elimination Evaluation –**

The Village feels that the current program is effective and will continue to perform the tasks outlined in this BMP.

## **4. Construction Site Runoff Control**

#### **D.1 Regulatory Control Program**

Measurable Goals: The Village will develop a regulatory control program providing regulations for site development.



Status: The Village currently requires developers to submit a SWPPP and has a stormwater ordinance that is at least as stringent as the Will County Stormwater Management Ordinance.

#### **D.2 Erosion and Sediment Control BMP's**

Measurable Goals: The Village will require developers to have BMP's in place prior to the beginning of construction.

Status: This is required by the Will County Stormwater Management Ordinance. The Village continues to require developers to have BMP's in place prior to the beginning of construction.

#### **D.4 Site Plan Review Procedures**

Measurable Goals: The Village will require all construction plans to be reviewed by an engineer prior to site development begins.

Status: The Village currently reviews construction plans to ensure that the appropriate procedures are included.

#### **D.5 Public Information Handling Procedures**

Measurable Goals: The Village will supply a mechanism for the Public to report issues and concerns related to development site conditions.

Status: The Village has continued to maintain a hotline where residents can call in or email concerns. The hotline is phone number is (708) 479-3927 and additional information is available here:  
<https://mokena.municipalcms.com/forms.aspx?fid=555>

#### **D.6 Site Inspection/Enforcement Procedures**

Measurable Goals: The Village will require developers to do weekly inspections of the development site and keep a copy of their SWPPP on site.

Status: The Village has continued work through their ordinance to require developers to conduct weekly inspections and keep a copy of their SWPPP on site.

#### **Construction Site Runoff Control Evaluation –**

The Village feels that the current program is adequate and effective. No changes are proposed to this BMP.

## **5. Post-Construction Runoff Control**

#### **E.4 Pre-Construction Review of BMP Designs**

Measurable Goals: The Village staff and/or their engineer will review development plans, including proposed temporary and permanent best management practices, prior to issuing a construction permit.

Status: The Village staff and/or their engineer will continue to review proposed best management practices prior to construction. The Village currently performs follow up inspections before releasing the letter of credit. The Village will continue this practice.

### **E.5 Site Inspections During Construction**

**Measurable Goals:** Inspection procedures, as prescribed by the SMO, are currently being followed by the Village for the orderly inspection of development activities. Enforce the SMO and adopt any new amendments.

**Status:** The Village has continued to follow inspections of development activity procedures. The Village will continue to enforce the SMO and adopt any new amendments as needed.

### **E.6 Post-Construction Inspections**

**Measurable Goals:** The Village will develop regulations requiring post-construction inspections to confirm that there are no apparent causes of runoff contamination left on the site.

**Status:** The Village currently performs post-construction inspections and will continue to perform these inspections.

### **E.7 Other Post-Construction Runoff Controls**

**Measurable Goals:** The Village will provide guidance to developers stating that the Village prefers wet bottom retention ponds, open space design considerations, and the use of native plantings where applicable.

**Status:** The Village has continued to review site plans and comments that they prefer wet bottom retention ponds, conservation of open space, and use of native plants. The Village will continue with this practice.

### **Post-Construction Runoff Control Evaluation -**

The Village feels that the current program is adequate and effective. No changes are proposed to this BMP.

## **6. Pollution Prevention/Good Housekeeping**

### **F.1 Staff Training**

**Measurable Goals:** The Village will continue to train and educate its employees in relevant positions to perform activities such as illicit discharge tracing procedures and visual dry weather stormwater outfall screening. The Village will also seek other opportunities for training through seminars and other training materials widely available. Training will be provided annually.

**Status:** The Village has continued training and educating employees to perform illicit discharge tracing procedures and visual dry weather outfall screening. Formal stormwater pollution prevention training was completed on March 8, 2019. Sixteen staff members attended the training on March 8, 2019. The training was geared towards good housekeeping measures.

### **F.2-F.4 Village of Mokena Facility Operation and Maintenance Program**

**Measurable Goals:** The Village will develop an operation and maintenance program to address the maintenance needs of its properties. The Program will include a description of all Properties, Fleet and Building Maintenance, and Erosion Control Procedures for new construction or other land disturbance, and prevention and containment of hazardous material spills.

Status: The Village has developed an operation and maintenance program. The Village utilizes contained storage of materials, a vehicle wash station, and has spill cleanup protocol in place. Also included in the Villages maintenance program is regular cleaning of pond troughs. The Village will continue to maintain the current program. The Village has a permanent structure for salt storage and stores fertilizers, pesticides and other chemicals indoors to prevent exposure to stormwater runoff.

**F.6 Other Municipal Operations Controls**

Measurable Goals: The Village will create and maintain a street sweeping program to reduce the amount of sediments and debris which can potentially enter the MS4.

Status: The Village has continued to perform its street sweeping program and will continue with scheduled street sweeping. As mentioned in the Village's News and Announcements on April 13<sup>th</sup>, 2019 the Village sweeps streets and curbs throughout the community, and picks up litter in rights-of-way and other public areas.

**Pollution Prevention/Good Housekeeping Evaluation –**

The Village feels that the current program is adequate and they are continuing make a conscious effort to maintain well-kept facilities. No changes are proposed to this BMP.

**Part C. Information and Data Collection Results**

The protocol established in the permit was followed; no illicit discharges were observed and no illicit discharges were tested.

## **Part D. Summary of Year 17 Stormwater Activities**

The Village of Mokena submitted a new NOI for coverage under the General NPDES Permit No.: ILR40 which became effective on March 1, 2016. This NOI was submitted to the IEPA in May of 2016. Per the NOI, the Village will complete the following during Year 17 (2019/2020)

- A.1 – Prepare at least one (1) educational article and publish it in the online newsletter at least once per year.
- A.3 – Continue to provide educational videos on cable television
- A.4 – Continue to host Clean-Up Day and begin to participate in the Lower Des Plaines River Watershed Group as the Hickory Creek Watershed Planning Group disbands.
- B.6 – Maintain Adopt-A-Highway, Adopt-A-Pond, and Prairie Planting programs.
- C.1 – Update the Outfall Map, as necessary, to show outfall locations and receiving streams.
- C.2 – Enforce the IDDE Ordinance and update on an as-needed basis.
- C.3 – Implement prioritization plan and update/modify as needed.
- C.4 – Continue developing illicit discharge tracing procedures and implement the procedures through the training and education of employees
- C.5 – Continue developing written procedures and continue to perform Illicit Discharge evaluations in accordance with BMPs C.4 and C.7.
- C.7 – Continue scheduled visits of known outfalls.
- C.8 – Continue performing water sample testing if necessary.
- C.10 – Continue to operate the IDDE Reporting Hotline
- D.1 – Continue to require the submission of a SWPPP for construction sites when applicable.
- D.2 – Continue to enforce the erosion and sediment controls outlined in the Will County SMO.
- D.4 – Continue to review construction plans to ensure that the appropriate procedures are included.
- D.5 – Continue to operate a hotline where residents can call in concerns related to construction site runoff.
- D.6 – Conduct weekly inspections of construction sites and require developers to keep a copy of their SWPPP on site.
- E.4 – Perform a pre-construction review of BMP designs. This can be done by qualified Village staff or the Village's engineer.
- E.5 – Continue to follow site inspection procedures during construction.
- E.6 – Continue to perform post-construction site inspections.
- E.7 – Continue to review site plans and provide guidance to developers that the Village prefers wet bottom retention ponds, conservation of open space, and the use of native plants.
- F.1 – Continue training and educate all employees involved in the maintenance, repair or replacement of public surfaces on green infrastructure practices and related topics.
- F.2-F.4 – Continue to follow the Operation and Maintenance Program.
- F.6 – Continue with the scheduled street sweeping program.

Please see the NOI for a detailed description of the stormwater activities that will be performed during the current NPDES reporting period (March 1, 2019 – February 29, 2020).

**Part E. Notice of Qualifying Local Program**

There are currently no Qualifying Local Programs that the Village wishes to rely on to meet the NPDES Phase II requirements. Hickory Creek Watershed Planning Group will assist with monitoring but not be responsible. As the Hickory Creek Watershed Planning Group disbands, the Village will coordinate with the Lower Des Plaines River Watershed Group to research options for potential partnerships.

## **Part F: Construction Projects Conducted During Year 16**

There were no construction projects initiated by the Village that disturbed more than one acre of land during Year 16.

file://hrgmhnas/data/Exceptions/Municipalities/Mokena/NPDES/Year%2016/rpt-AnnualUpdateMokena-Yr16-051419.doc



# SIGN-IN SHEET

## NPDES Phase II Municipal Training - 2019

Presenter: Logan Gilbertsen, PE, CFM - HR Green, Inc.

Date: March 8, 2019 Time: 11:00am

Location: Mokena, Illinois

Name (Please Print)	Name (Please Print)
Wesley Petrow	Rob Skobz
Dan Manns	Jim A -
James Smith	Pat Janssen
Matt Cullen	
Mike Dornbos	
Dale Butler	
Michael Lief	
Zaw Pelaguin	
Mark Detloff	
Kevin Clay	
Jeff Cardan	
Zaw Slawski	

Rich Cassin