



# Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

## Notice of Intent for New or Renewal of General Permit for Discharges from Small Municipal Separate Storm Sewer Systems (MS4's)

### Part I. Municipal (MS4) Contact Information

1. Name of Municipality: Village of Bannockburn MS4 #: ILR400284  
Population (based on 2010 census): 1,606
2. MS4 Mailing Address: 2275 Telegraph Road City: Bannockburn, IL Zip: 60015
3. Primary MS4 Contact Person (Authorized Representative for MS4 Permit)  
Name: Stephanie Hannon Title: Village Manager  
Phone: (847) 945-6080 Email Address: shannon@villageofbannockburn.org

### General Information

4. Latitude and Longitude at approximate geographical center of MS4 for which you are requesting authorization to discharge:  
Latitude: 42 11 37N Longitude: 87 52 16W  
Degrees Minutes Seconds Degrees Minutes Seconds
5. Community Type: Village ☒ Other: \_\_\_\_\_
6. Name(s) of governmental entity(ies) in which MS4 is located:

| City/Village | Township               | County |
|--------------|------------------------|--------|
| Bannockburn  | Vernon; West Deerfield | Lake   |
7. Area of land within your MS4 in square miles: 2.06
8. Percent of MS4 served by combined sewer: 0% Percent of MS4 served by separate sewer: 100%

### Impaired Waters

The most recent 303(d) list may be found at <https://www2.illinois.gov/epa/topics/water-quality/watershed-management/tmdls/Pages/303d-list.aspx>. Information regarding TMDLs may be found at <https://www2.illinois.gov/epa/topics/water-quality/watershed-management/tmdls/Pages/default.aspx>.

9.

| Name(s) of known receiving waters (in and within 3 miles of MS4 area) | Impairment listed on 303d List or TMDL?                       |
|-----------------------------------------------------------------------|---------------------------------------------------------------|
| See attachment A                                                      | <input checked="" type="radio"/> Yes <input type="radio"/> No |

9a. If impaired, which potential causes and source?

Causes: See attachment A Source: \_\_\_\_\_

9b. Are the receiving waterbodies included in an approved TMDL or alternate water quality management plan? ☒ Yes ☐ No

If yes, what measures to comply with the TMDL waste load allocation (WLA) are being implemented or are planned?

See attachment A

9c. Is the MS4 community included in the chloride variance? ☐ Yes ☒ No

## Program Responsibility

### 10. Shared Responsibility

Is your MS4 responsible for any permit requirements of another MS4 community? ☐ Yes ☒ No

Does your MS4 Community rely on another MS4 to satisfy any of the permit requirements? ☐ Yes ☒ No

### 11. Co-Permittee

Is your MS4 Community a Co-Permittee with another MS4 Community? ☐ Yes ☒ No

### 12. Other contacts responsible for implementation or coordination of Stormwater Management Program

Name: Carissa Smith Title: Engineer

Phone: (847) 478-9700 Email: csmith@gha-engineers.com

Area of Responsibility: Technical Support

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**Part II. Best Management Practices (include shared responsibilities) which have been implemented or are proposed to be implemented in the MS4 area**

**A. Public Education and Outreach**

Approximate date first implemented: March 2003

Frequency of each BMP program: As Needed

**Qualifying Local Programs**

The Lake County Stormwater Management Commission (SMC) serves as a QLP for Lake County MS4s. As a QLP, SMC performs activities related to each of the six MCMs described in the MS4 Permit, including activities related to Public Education and Outreach. These activities provide Lake County with a baseline Countywide stormwater management program that can be built upon by each of the individual MS4s. Over the coming years, SMC plans to continue to perform a variety of activities related to the Public Education and Outreach MCM.

**MS4 Stormwater Management Program:**

As part of its stormwater management program, the Village of Bannockburn conducts a number of Public Education and Outreach activities that educate and inform the public about the impacts of stormwater runoff on receiving water bodies and the steps that the public can take to reduce those impacts. In coordination and collaboration with the QLP, the Village of Bannockburn utilizes a variety of best management practices (BMPs) to educate and inform the public about these issues, including: distributing paper material containing information about stormwater management; sponsoring and/or attending community outreach events, including meetings, to provide information about stormwater management.

☒ **A.1 Distributed Paper Material**

**Brief Description of BMP**

The QLP compiles, develops, and distributes throughout Lake County (to the general public and MS4s) a variety of materials related to stormwater management. The MS4 supports the QLP by further distributing education material via take-away racks, municipal newsletters, website, at outreach events and by supporting efforts of the Solid Waste Agency of Lake County (SWALCO).

The Village of Bannockburn works to compile and distribute within the Village of Bannockburn a variety of materials related to stormwater management from a variety of sources, including the Lake County Stormwater Management Commission (i.e., QLP), IEPA, US EPA, the Center for Watershed Protection, and other agencies and organizations. The Village provides informational materials on a "take away" rack at the Village Offices. In addition, the Village included information in the Village Newsletter and on the Village website regarding septic maintenance, ditch maintenance and waste collection days coordinated with SWALCO.

**Measurable Goals, including frequencies**

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is on-going unless otherwise noted.

Make available and distribute manuals "A Citizen's Guide to Maintaining Stormwater Best Management Practices" and "Living with Wetlands: A Handbook for Homeowners in Northeastern Illinois" to local entities such as homeowners associations.

**Milestones**

Year 1: Maintain take-away racks. Attend outreach events and scheduled meetings as necessary.

Year 2: Maintain take-away racks. Attend outreach events and scheduled meetings as necessary.

Year 3: Maintain take-away racks. Attend outreach events and scheduled meetings as necessary.

Year 4: Maintain take-away racks. Attend outreach events and scheduled meetings as necessary.

Year 5: Maintain take-away racks. Attend outreach events and scheduled meetings as necessary.

**Additional Info**

Measurable Goals (include shared responsibilities)

BMP Number: A1-1(Q)

Make available outreach materials on stormwater related topics including safe vehicle maintenance, car washing, healthy lawn care, green infrastructure, pool dewatering, illicit discharge and illegal dumping. Both the MS4 and the QLP provide via take-away-racks, outreach events and scheduled meetings with the general public, as needed.

BMP Number: A1-2

Include stormwater related article in newsletter(s).

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☒ A.2 Speaking Engagement

Brief Description of BMP

The QLP provides educational presentations related to IEPA's NPDES Stormwater Program on a regular basis at Municipal Advisory Committee (MAC) meetings. Upon request, QLP provides educational presentations related to IEPA's NPDES Stormwater Program to Lake County MS4s.

Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is annually unless otherwise noted.

Milestones

Year 1: Minimum of 1 NPDES program related presentation annually.

Year 2: Minimum of 1 NPDES program related presentation annually.

Year 3: Minimum of 1 NPDES program related presentation annually.

Year 4: Minimum of 1 NPDES program related presentation annually.

Year 5: Minimum of 1 NPDES program related presentation annually.

Additional Info

BMP Number: A2-1(Q)

Include NPDES program information at at least 1 annual MAC meeting.

BMP Number: A2-2(Q)

Provide educational presentations related to NPDES stormwater program (Big Picture), upon request.

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☒ A.3 Public Service Announcement

Brief Description of BMP

QLP performs extensive Social Media Outreach & Announcement Activities. Public service announcement related to IEPA's NPDES Stormwater Program or Stormwater BMPs are included in SMC's watershed E-News. SMC also utilizes social media and coordinates with the Lake County Department of Transportation (LCDOT) to post watershed identification signage in watersheds where watershed planning activities have occurred or are occurring.

Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is on-going unless otherwise noted.

Milestones

Year 1: 1 mainstream publication annually. Maintain social media campaign.

Year 2: 1 mainstream publication annually. Maintain social media campaign.

Year 3: 1 mainstream publication annually. Maintain social media campaign.

Year 4: 1 mainstream publication annually. Maintain social media campaign.

Year 5: 1 mainstream publication annually. Maintain social media campaign.

Additional Info

BMP Number: A3-1(Q)

Include NPDES program information in at least 1 mainstream publication.

BMP Number: A3-2(Q)

Post watershed signage in cooperation with LCDOT.

BMP Number: A3-3(Q)

Provide NPDES related information via Facebook and Twitter.

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☒ A.4 Community Event

Brief Description of BMP

QLP sponsors and co-sponsors educational and technical training workshops on a variety of stormwater management-related topics. Each year, SMC will sponsor or co-sponsor at least one workshop on a topic related to IEPA's NPDES Stormwater Program, such as soil erosion and sediment control, illicit discharge detection and elimination, or stormwater best management practices (BMPs) that can be used to protect and improve water quality.

The Village of Bannockburn sponsors and/or attends community outreach events, including meetings, to provide information on stormwater management-related topics. Audiences attending such events may include homeowners associations, lake management associations, businesses, and neighborhood groups. Additionally, the Village of Bannockburn supports the efforts of the Solid Waste Agency of Lake County (SWALCO) to implement programs throughout Lake County that increase reuse, recycling, and composting and reduce reliance on landfills. As part of these waste management efforts, SWALCO conducts dozens of household hazardous waste collection events each year at various locations throughout the county. The Village of Bannockburn publicizes these household hazardous waste collection events to encourage the public to participate in such events.

Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is annual unless otherwise noted.

The Village of Bannockburn participates in the SMC and APWA-sponsored snow and ice removal workshop and will continue to attend technical training and public awareness workshops.

#### Milestones

|         |                 |
|---------|-----------------|
| Year 1: | Implement SMPP. |
| Year 2: | Implement SMPP. |
| Year 3: | Implement SMPP. |
| Year 4: | Implement SMPP. |
| Year 5: | Implement SMPP. |

#### Additional Info

BMP Number: A4-1

Solid Waste Agency of Lake County (SWALCO) holds household waste collection events in various communities throughout Lake County, which assist in collecting waste before it enters the storm sewer system. The MS4 supports and publicizes SWALCO collections.

BMP Number: A4-2(Q)

Sponsor / co-sponsor NPDES related workshops, at least once annually (track).

BMP Number: A4-3(Q)

Sponsor / co-sponsor NPDES related workshops (track). Attend/sponsor outreach events and scheduled meetings as-needed.

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#### ☒ A.5 Classroom Education Material

##### Brief Description of BMP

Upon request, QLP will contribute to the development and compilation of material for inclusion in a stormwater education kit that can be distributed to local students and teachers and/or other local stakeholders. Additionally, upon request, SMC will provide information, materials, and training to local students and teachers and/or other local stakeholders interested in conducting storm drain stenciling.

##### Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is as-needed unless otherwise noted.

#### Milestones

|         |  |
|---------|--|
| Year 1: |  |
| Year 2: |  |
| Year 3: |  |
| Year 4: |  |
| Year 5: |  |

#### Additional Info

BMP Number: A5-1(Q)

Provide stormwater educational kits, as-needed.

BMP Number: A5-2(Q)

Provide guide to Storm Drain Marking to groups that express interest, as-needed.

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☒ A.6 Other Public Education

Brief Description of BMP

QLP maintains a website that contains a variety of materials and resources related to stormwater management. The website provides information about IEPA's NPDES Stormwater Program, provide information about stormwater best management practices (BMPs), allow for download of stormwater management-related publications and documents, provide notices of upcoming meetings and ongoing projects, includes watershed plans and watershed workgroup information, and provide links to a number of other stormwater management-related resources.

Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is on-going unless otherwise noted.

Milestones

Year 1: Maintain websites.

Year 2: Maintain websites.

Year 3: Maintain websites.

Year 4: Maintain websites.

Year 5: Maintain websites.

Additional Info

BMP Number: A6-1

Maintain link to SMC, link to SWALCO, IEPA, safe vehicle maintenance & car washing information, healthy lawn care, green infrastructure, pool dewatering.

BMP Number: A6-2

Post NOI, SMPP and Annual Report on website.

BMP Number: A6-3(Q)

QLP maintain SMC website (information and links; include illicit discharge and illegal dumping info).

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## B. Public Participation/Involvement

Approximate date first implemented: March 2003

Frequency of each BMP program: As Needed

### Qualifying Local Programs

The Lake County Stormwater Management Commission (SMC) serves as a QLP for Lake County MS4s. As a QLP, SMC performs activities related to each of the six MCMs described in the permit, including activities related to Public Participation/Involvement. These activities provide Lake County with a baseline Countywide stormwater management program that can be built upon by each of the individual MS4s. Over the coming years, SMC plans to continue to perform a variety of activities related to the Public Participation/Involvement MCM.

As part of its stormwater management program, the Village of Bannockburn conducts a number of Public Participation/Involvement activities that involve and engage the public in the implementation of its stormwater management program. In coordination and collaboration with the QLP, the Village of Bannockburn utilizes a variety of best management practices (BMPs) to involve and engage the public in these efforts, including: attending and encouraging public participation in stakeholder meetings; presenting information about stormwater management and its stormwater management program at public meetings.

### Measurable Goals (include shared responsibilities)

☒ B.1 Public Panel

#### Brief Description of BMP

SMC provides procedural guidance and implements its Citizen Inquiry Response System (CIRS) for receiving and taking action on information provided by the public regarding post-construction stormwater runoff control. SMC coordinates and conducts public meetings as well as committee meetings that are open to the public.

#### Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is on-going unless otherwise noted.

#### Milestones

Year 1: Administer CIRS and continue to conduct standing meetings.

Year 2: Administer CIRS and continue to conduct standing meetings.

Year 3: Administer CIRS and continue to conduct standing meetings.

Year 4: Administer CIRS and continue to conduct standing meetings.

Year 5: Administer CIRS and continue to conduct standing meetings.

#### Additional Info

BMP Number: B1-1(Q)

Implement CIRS procedures.

BMP Number: B1-2(Q)

Provide notice of public meetings (TAC, MAC, WMB) on website. Track

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☐ B.2 Educational Volunteer

☒ B.3 Stakeholder Meeting

#### Brief Description of BMP

The QLP is actively involved in watershed planning throughout Lake County. SMC believes that the watershed planning process cannot happen and will not be successful without the input, interest, and commitment of the watershed stakeholders. Watershed stakeholders may include municipalities, townships, drainage districts, homeowner associations, lakes management associations, developers, landowners, and local, county, state, and federal agencies.

Watershed stakeholder meetings are regularly held throughout Lake County as part of new and/or ongoing watershed planning and/or project implementation efforts. When the Village of Bannockburn is a stakeholder in a watershed planning and/or project implementation effort (i.e., any part of the MS4 is located within the boundaries of a watershed subject to a planning and/or project implementation effort), the Village of Bannockburn participates in scheduled stakeholder meetings and publicizes the meetings to encourage other stakeholders (i.e., homeowner associations, lakes management associations, landowners) to participate.

#### Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is on-going unless otherwise noted.

The Village will continue to publicize and participate in relevant watershed planning committees and other stakeholder groups. Representatives from the Village serve on the North Branch Watershed Planning Committee.

#### Milestones

Year 1: Participate in relevant watershed planning efforts and workgroups.

Year 2: Participate in relevant watershed planning efforts and workgroups.

Year 3: Participate in relevant watershed planning efforts and workgroups.

Year 4: Participate in relevant watershed planning efforts and workgroups.

Year 5: Participate in relevant watershed planning efforts and workgroups.

#### Additional Info

BMP Number: B3-1(Q)

QLP establishes watershed planning committee for each new watershed planning effort and provides notice of meetings. MS4 participates in watershed planning efforts that are relevant to the MS4.

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#### ☒ B.4 Public Hearing

#### Brief Description of BMP

Present Annual Report to Board during open meeting

The Village coordinates and conducts public meetings as well as committee meetings that are open to the public. A monthly Village Board meeting is open to the public and involves the Village Board of Trustees, which includes eight publicly elected representatives. Periodically, information about the Village's stormwater management program is presented at such meetings. Several BMP and Pollution Prevention Housekeeping items were presented to the Village Board at public meetings and the Municipal NPDES Phase II was included as part of the presentation. Village staff will continue to provide a NPDES Phase II summary to the Village Board at a public meeting annually.

#### Measurable Goals, including frequencies

MS4 to present Annual Report to Board during open meeting.

Information about the Village of Bannockburn's stormwater management program will be presented at a public meeting at least once each year.

#### Milestones

|         |                                                     |
|---------|-----------------------------------------------------|
| Year 1: | Present Annual Report to Board during open meeting. |
| Year 2: | Present Annual Report to Board during open meeting. |
| Year 3: | Present Annual Report to Board during open meeting. |
| Year 4: | Present Annual Report to Board during open meeting. |
| Year 5: | Present Annual Report to Board during open meeting. |

Additional Info

BMP Number: \_\_\_\_\_

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☐ B.5 Volunteer Monitoring

☒ B.6. Program Involvement

Brief Description of BMP

QLP formed the Municipal Advisory Committee (MAC) to provide a forum for representatives of local MS4s, which include municipalities, townships, and drainage districts, to discuss, among other topics, the implementation of IEPA's NPDES Stormwater Program. SMC will continue to facilitate MAC meetings and will continue to provide general support to Lake County MS4s as they continue to develop and implement their stormwater management programs. SMC will prepare an annual report on its stormwater management activities and will provide guidance to Lake County MS4s in preparing their own annual reports.

Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is annually unless otherwise noted.

Milestones

|         |                                                                 |
|---------|-----------------------------------------------------------------|
| Year 1: | Track MAC and other stormwater related meetings.                |
| Year 2: | Track MAC and other stormwater related meetings.                |
| Year 3: | Track MAC and other stormwater related meetings.                |
| Year 4: | Track MAC and other stormwater related meetings.                |
| Year 5: | Track MAC and other stormwater related meetings. Evaluate SMPP. |

Additional Info

BMP Number: B6-1(Q)

QLP hosts and MS4 attends MAC meetings and other stormwater related events.

BMP Number: B6-2

Evaluate SWPP (at least once during permit cycle) noting major highlights and deficiencies.

BMP Number: B6-3(Q)

Provide annual report template including description of QLP. Provide detailed Sate of Lake County Water's segment in annual report template.

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☒ B.7 Other Public Involvement

Brief Description of BMP

Publicize contact information to encourage submission of complaints, suggestions, requests or report potential illicit discharges/illegal dumping.

Measurable Goals, including frequencies

Publicize contact information to encourage submission of complaints, suggestions, requests (on-going).

Milestones

Year 1: Implement SMPP.

Year 2: Implement SMPP.

Year 3: Implement SMPP.

Year 4: Implement SMPP.

Year 5: Implement SMPP.

Additional Info

BMP Number: \_\_\_\_\_

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## C. Illicit Discharge Detection and Elimination

Approximate date first implemented: March 2003

Frequency of each BMP program: As Needed

### Qualifying Local Programs

The Lake County Stormwater Management Commission (SMC) serves as a QLP for Lake County MS4s. As a QLP, SMC performs activities related to each of the six MCMs described in the permit, including activities related to Illicit Discharge Detection and Elimination. These activities provide Lake County with a baseline Countywide stormwater management program that can be built upon by each of the individual MS4s. Over the coming years, SMC plans to continue to perform a variety of activities related to the Illicit Discharge Detection and Elimination MCM.

As part of its stormwater management program, the Village of Bannockburn conducts a number of activities related to Illicit Discharge Detection and Elimination. In accordance with the current version of the Permit, the Village of Bannockburn's Illicit Discharge Detection and Elimination program includes:

- A storm sewer system map showing the locations of all outfalls and the names and locations of all waters that receive discharges from those outfalls;
- An ordinance or other regulatory mechanism that prohibits all non-stormwater discharges into the storm sewer system and provides the authority for appropriate enforcement procedures and actions;
- A plan to detect and address all non-stormwater discharges, including illegal dumping, into the storm sewer system;
- A program to educate public employees, businesses, and the general public about the hazards associated with illegal discharges and improper disposal of waste;
- Periodic (annual is recommended) inspection of storm sewer outfalls for detection of non-stormwater discharges and illegal dumping.

In coordination and collaboration with the QLP, the Village of Bannockburn will continue to perform activities related to the Illicit Discharge Detection and Elimination MCM, as described below. Note that although the Village of Bannockburn intends to share responsibility for the implementation of the Illicit Discharge Detection and Elimination MCM with the QLP, as outlined in this NOI, the primary responsibility for the implementation of the Illicit Discharge Detection and Elimination MCM lies with the Village of Bannockburn.

### ☒ C.1 Sewer Map Preparation

#### Brief Description of BMP

MS4 maintains an outfall map showing the locations of outfalls, specifically identifying high priority outfalls and the names and location of all waters that receive discharges from those outfalls.

The Village has prepared a storm sewer system map showing the locations of all outfalls and the names and locations of all waters that receive discharges from those outfalls. The storm sewer system map is periodically maintained and updated to include outfalls associated with development projects and any previously unidentified outfalls.

#### Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is on-going unless otherwise noted.

The Village will maintain and update storm sewer system map regularly with additional data and as improvements or new developments occur to provide more detail.

#### Milestones

Year 1: Implement SMPP.

Year 2: Implement SMPP.

Year 3: Implement SMPP.

Year 4: Implement SMPP.

Year 5: Implement SMPP.

#### Additional Info

Measurable Goals (include shared responsibilities)

BMP Number: C1-1

Maintain outfall map.

BMP Number: C1-2(Q)

Make available outfall data obtained as part of stream inventories and GIS data related to the County's existing stormwater infrastructure (e.g. storm sewer atlases, stream inventories and detention basin inventories).

BMP Number: C1-3

Inspect for "new" outfalls every 5 years

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☒ C.2 Regulatory Control Program

Brief Description of BMP

The WDO includes provisions that prohibit illicit discharges to the storm sewer system during construction (i.e., prior to final site stabilization) on development sites. MS4 has also adopted illicit discharge ordinances that prohibit all non-stormwater discharges, including illegal dumping, to the storm sewer system.

The Village has adopted an illicit discharge ordinance that prohibits all non-stormwater discharges into the storm sewer system and provides the authority for appropriate enforcement procedures and actions. The Village will review, consider and adopt ordinance language to prohibit non-stormwater discharges to the storm sewer or drainage system and to provide an enforcement mechanism for the illicit discharge detection and elimination program.

The Village of Bannockburn has current Local Ordinances in their Municipal Code regarding "Offenses Against Public Health and Safety" regarding Litter; and Ordinances regarding private sewage disposal systems. This ordinance specifically prohibits the dumping, depositing, dropping, throwing, discarding or leaving of litter upon any public or private property or into any river, lake, pond or other stream or body of water unless the property has been designated by the Village for disposal of litter. Local Ordinance also prohibits the discharge of untreated sewage, effluent from any septic tank, disposal field or mechanical treatment plant or any industrial or business wastewater directly or indirectly to any stream, ditch, drainage system, drainage pipe, storm water sewer, ground surface, or abandoned well or maintain or operate an individual sewage disposal system in such manner that it becomes offensive, dangerous or prejudicial to the public health.

Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is on-going unless otherwise noted.

The Village will continue development of IDDE program and identify methods, activities, enforcement and schedule to identify and remove illicit discharges.

Milestones

Year 1: Enforce ordinances.

Year 2: Enforce ordinances.

Year 3: Enforce ordinances.

Year 4: Enforce ordinances.

Year 5:

Additional Info

BMP Number: C2-1

The MS4 is a certified community. MS4 administers and enforces the WDO.

BMP Number: C2-2

Enforce local Ordinances including: IDDE, Subdivision and Public Utility.

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☒ C.3 Detection/Elimination Prioritization Plan

Brief Description of BMP

Detection / Elimination Prioritization Plan has been developed and is included in SMPP. Detection methods include dry-weather screening, regular storm sewer maintenance, and public reporting.

Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation frequencies are noted below per BMP.

Milestones

Year 1:

Year 2:

Year 3:

Year 4:

Year 5:

Additional Info

BMP Number: C3-1

Respond to, track and resolve indirect illicit discharges, as needed.

BMP Number: C3-2

Pre-screen 100% of outfalls (20% per year or 100% within every 5-yrs)

BMP Number: C3-3

Complete outfall inspection procedure for all outfalls with observed dry weather flow (20% per year or 100% within every 5-yrs). Document.

BMP Number: C3-4

Inspect all high priority outfalls annually.

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☒ C.4 Illicit Discharge Tracing Procedures

Brief Description of BMP

Source Id/tracing procedures for identified illicit discharges have been developed and are included in SMPP.

The Village of Bannockburn will develop procedures for tracking illicit discharges to their source. Methods that can be used to track illicit discharges to their source include drainage area investigations, storm sewer network investigations, and on-site investigations, which may involve smoke testing, dye testing, and/or video inspection to pinpoint the exact source of an illicit discharge. When an illicit discharge is identified, appropriate source tracking procedures are selected and used to track the discharge to its source.

Village contractor conducts inspection and routine maintenance of several Village detention/retention pond outlet control structures through an annual contract and the inspections and maintenance occurs on monthly basis. The Village had initiated an annual Village storm sewer and street culvert maintenance program. Services include jetting of storm sewers and cleaning of structures of debris and erosion. Field notes and evaluation reports from these inspections are entered into the Villages storm sewer atlas database to track identified problems and dates when the storm sewers/culverts were repaired or replaced. The village has also contracted with Ela Township Highway Department to perform routine inspections, cleaning and clearing of debris from several pond and detention facility outlet structures as a preventative measure to ensure positive stormwater conveyance. Dry weather visual screening is included as part of this task

Measurable Goals, including frequencies

Follow established tracing procedures for potential illicit discharges included in the SMPP, on an as needed basis.

The Village will pilot illicit discharge detection methods, such as dry weather screening and targeted video inspection. Additionally, they will develop procedures for source identification of detected illicit discharge and the program will include procedures for tracing the discharge upstream from the outfall to the source, and procedure for notifying property owners when MS4 is required to enter private property will also be included.

Milestones

Year 1: Implement SMPP.

Year 2: Implement SMPP.

Year 3: Implement SMPP.

Year 4: Implement SMPP.

Year 5: Implement SMPP.

Additional Info

BMP Number: \_\_\_\_\_

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☒ C.5 Illicit Source Removal Procedures

Brief Description of BMP

Removal procedures for found illicit discharges have been developed and are included in SMPP.

The Village of Bannockburn will develop procedures for removing illicit discharges from the storm drain system once they have been tracked to their source. These procedures generally include: using an independent third-party to confirm the presence of an illicit discharge; notifying the landowner of the presence of an illicit discharge; requesting and conducting a site inspection with the landowner to pinpoint the source of the illicit discharge and to identify potential remedial actions; notifying the landowner of the need to take corrective action; and, if necessary, enforcing the provisions of the illicit discharge ordinance to have the illicit discharge removed from the storm sewer system.

Measurable Goals, including frequencies

Follow established removal procedures for found illicit discharges included in the SMPP, on an as needed basis.

The Village will develop municipal employee IDDE training program as well as provide a convenient location where the general public can dispose of common household pollutants. Additionally, the Village will consider targeting employees in relevant positions that will perform activities such as illicit discharge tracing procedures, visual dry weather storm water outfall screening and illicit source removal. The Village will create and distribute materials educating public about elements of IDDE program, such as illicit discharge/illegal dumping resident notification, IDDE ordinance and SWALCO waste collection events. The Village will coordinate with SWALCO to market waste collection events to the public and to distribute IDDE-related information during the event as well as document participation.

Milestones

Year 1: Implement SMPP.

Year 2: Implement SMPP.

Year 3: Implement SMPP.

Year 4: Implement SMPP.

Year 5: Implement SMPP.

Additional Info

BMP Number: \_\_\_\_\_

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☒ C.6 Program Evaluation and Assessment

Brief Description of BMP

Periodically evaluate and assess the IDDE portion of the SMPP. Collaborate and share information about IDDE program and results through MAC.

The Village of Bannockburn periodically evaluates and assesses the effectiveness of its Illicit Discharge Detection and Elimination program. This evaluation is generally based on the results of the Village of Bannockburn's visual dry weather screening program and on the number of nonstormwater discharges and illegal dumping incidents identified through both employee and public reporting. If the Village of Bannockburn's Illicit Discharge Detection and Elimination program is effective, it is logical to assume that, over time, the number of non-stormwater discharges and illegal dumping incidents identified through visual dry weather screening, employee reporting, and public reporting will decline.

Measurable Goals, including frequencies

The inclusion or exclusion of water bodies on the IEPAs 303(d) list, published bi-annually, is a direct reflection of the program's effectiveness.

The Village will collaborate and share information about IDDE program and results through MAC, share ideas about common illicit discharges, enforcement methods, prevention methods and public education/outreach techniques. Additionally, representatives from the Village attend MAC meetings.

#### Milestones

|         |                                                    |
|---------|----------------------------------------------------|
| Year 1: | Include assessment in Part B of the Annual Report. |
| Year 2: | Include assessment in Part B of the Annual Report. |
| Year 3: | Include assessment in Part B of the Annual Report. |
| Year 4: | Include assessment in Part B of the Annual Report. |
| Year 5: | Include assessment in Part B of the Annual Report. |

#### Additional Info

BMP Number: \_\_\_\_\_

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

##### Brief Description of BMP

Continue screening storm sewer structures as part of regular cleaning and maintenance and implementing dry weather screening program as described in the SMPP.

In accordance with the current version of the Permit, the Village of Bannockburn conducts annual inspections of storm sewer outfalls for detection of non-stormwater discharges and illegal dumping. During such inspections, outfalls are assessed to determine whether or not flow is observed and whether or not any indicators of an illicit discharge are present. The results of each inspection are recorded on a form, and based on such results, appropriate follow-up actions are prescribed. Such follow-up actions may include additional inspections, additional water quality sampling and analysis, source tracking, and source removal. Follow-up activities are generally prioritized based on the scope and magnitude of the associated illicit discharge

##### Measurable Goals, including frequencies

Clean approximately 20% per year or 100% within every 5-yr. Document.

The Village will conduct annual inspections of storm sewer outfalls for detection of illicit discharges, review a pilot dry weather screening, continue to investigate citizen illicit discharge/illegal dumping reports in the field. The Village continues to provide routine observations of Village ditches during dry weather conditions and outfalls which contain dry weather discharges are investigated further.

#### Milestones

|         |                 |
|---------|-----------------|
| Year 1: | Implement SMPP. |
| Year 2: | Implement SMPP. |
| Year 3: | Implement SMPP. |
| Year 4: | Implement SMPP. |
| Year 5: | Implement SMPP. |

#### Additional Info

BMP Number: \_\_\_\_\_

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☒ C.8 Pollutant Field Testing

Brief Description of BMP

Perform field testing consistent with the procedure identified in the SMPP during pre-screening, for outfalls observed with dry weather flow and for high-priority outfalls (see C.3 above).

Measurable Goals, including frequencies

Implement SMPP.

Milestones

Year 1: Average 20% outfalls observed with dry-weather flows and all high priority outfalls.

Year 2: Average 20% outfalls observed with dry-weather flows and all high priority outfalls.

Year 3: Average 20% outfalls observed with dry-weather flows and all high priority outfalls.

Year 4: Average 20% outfalls observed with dry-weather flows and all high priority outfalls.

Year 5: Average 20% outfalls observed with dry-weather flows and all high priority outfalls.

Additional Info

BMP Number: \_\_\_\_\_

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☒ C.9 Public Notification

Brief Description of BMP

Implement Spill Response Plan, described in SMPP. Provide notice for observed discharges.

The Village of Bannockburn provides and publicizes a phone number that the public can use to submit information about stormwater-related problems and concerns. The Village of Bannockburn documents and tracks the resolutions of problems and complaints reported by the public, including reports of illicit discharges and illegal dumping.

Measurable Goals, including frequencies

Implement SMPP on an as-needed basis.

Milestones

Year 1: Implement SMPP.

Year 2: Implement SMPP.

Year 3: Implement SMPP.

Year 4: Implement SMPP.

Year 5: Implement SMPP.

Additional Info

BMP Number: \_\_\_\_\_

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☒ C.10 Other Illicit Discharge Controls

Brief Description of BMP

QLP regularly sponsors and co-sponsors educational and technical training workshops on a variety of stormwater management-related topics.

Measurable Goals, including frequencies

QLP sponsored/co-sponsored activity at least once annually.

Milestones

Year 1: QLP sponsored/co-sponsored activity at least once annually.

Year 2: QLP sponsored/co-sponsored activity at least once annually.

Year 3: QLP sponsored/co-sponsored activity at least once annually.

Year 4: QLP sponsored/co-sponsored activity at least once annually.

Year 5: QLP sponsored/co-sponsored activity at least once annually.

Additional Info

BMP Number: \_\_\_\_\_

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## D. Construction Site Runoff Control

Approximate date first implemented: March 2003

Frequency of each BMP program: As Needed

### Qualifying Local Programs

The Lake County Stormwater Management Commission (SMC) serves as a QLP for Lake County MS4s. As a QLP, SMC performs activities related to each of the six MCMs described in the permit, including activities related to Construction Site Runoff Control. These activities provide Lake County with a baseline Countywide stormwater management program that can be built upon by each of the individual MS4s. Over the coming years, SMC plans to continue to perform a variety of activities related to the Construction Site Runoff Control MCM.

The Village of Bannockburn has developed and implemented a Construction Site Runoff Control program to reduce the amount of pollution contained in construction stormwater runoff that enters the Village of Bannockburn's storm sewer system from development sites. The Village of Bannockburn has adopted the Lake County WDO and is currently certified by SMC to administer and enforce the provisions of the WDO. The Village of Bannockburn's designated Enforcement Officer is responsible for reviewing and permitting development plans and for administering and enforcing the provisions of the WDO within the Village of Bannockburn.

Measurable Goals (include shared responsibilities)

#### ☒ D.1 Regulatory Control Program

##### Brief Description of BMP

The WDO is the regulatory mechanism that requires the use of soil erosion and sediment controls on development sites throughout Lake County. SMC has also created a Designated Erosion Control Inspector (DECI) program, a program designed to closely mirror the inspection requirements of IEPA's General NPDES Permit No. ILR10.

##### Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is on-going unless otherwise noted.

##### Milestones

Year 1: Enforce WDO. Support DECI Program.

Year 2: Enforce WDO. Support DECI Program.

Year 3: Enforce WDO. Support DECI Program.

Year 4: Enforce WDO. Support DECI Program.

Year 5: Enforce WDO. Support DECI Program.

##### Additional Info

BMP Number: D1-1

The MS4 is a certified community. MS4 administers and enforces (or assist SMC in) the WDO provisions (plan review, permitting, inspections and enforcement).

BMP Number: D1-2(Q)

Administer DECI program. MS4 assist QLP in ensuring applicable developments comply with DECI program requirements.

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#### ☒ D.2 Erosion and Sediment Control BMPs

##### Brief Description of BMP

§600 of the WDO specifies the soil erosion and sediment control measures that must be used in conjunction with any

land disturbing activities conducted on a development site. SMC has also created a Designated Erosion Control Inspector (DECI) program, a program designed to closely mirror the inspection requirements of IEPA's General NPDES Permit No. ILR10.

Measurable Goals, including frequencies

The MS4 is a certified community. MS4 administers and enforces the WDO including plan review, permitting, inspections and enforcement. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is on-going unless otherwise noted.

Milestones

Year 1: Enforce WDO. Support DECI Program.

Year 2: Enforce WDO. Support DECI Program.

Year 3: Enforce WDO. Support DECI Program.

Year 4: Enforce WDO. Support DECI Program.

Year 5: Enforce WDO. Support DECI Program.

Additional Info

BMP Number: D2-1(Q)

Administer DECI program. MS4 assist QLP in ensuring applicable developments comply with DECI program requirements.

BMP Number: D2-2(Q)

Maintain technical guidance resources, documents and offer training to accompany the WDO.

Add a row

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☒ D.3 Other Waste Control Program

Brief Description of BMP

The WDO includes several provisions that address illicit discharges generated by construction sites. The applicant is required to prohibit the dumping, depositing, dropping, throwing, discarding, or leaving of litter and construction material and all other illicit discharges from entering the stormwater management system. SMC has also created a Designated Erosion Control Inspector (DECI) program, a program designed to closely mirror the inspection requirements of IEPA's General NPDES Permit No. ILR10 (including waste control requirements).

Measurable Goals, including frequencies

The MS4 is a certified community. MS4 enforces the WDO.

Milestones

Year 1: Enforce WDO.

Year 2: Enforce WDO.

Year 3: Enforce WDO.

Year 4: Enforce WDO.

Year 5: Enforce WDO.

Additional Info

BMP Number: \_\_\_\_\_

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☒ D.4 Site Plan Review Procedures

Brief Description of BMP

A community's designated enforcement officer is responsible for reviewing and permitting development plans and for administering and enforcing the provisions of the WDO. Within certified communities (i.e., communities certified by SMC to administer and enforce the provisions of the WDO), responsibility for reviewing and permitting development plans and for administering and enforcing the provisions of the WDO lies with the MS4; within non-certified communities, the designated enforcement officer is SMC's chief engineer. All designated enforcement officers must pass an exam in order to qualify to act as such. SMC administers this enforcement officer program, providing training on an as-needed basis to all enforcement officers to assist them in passing the exam, and maintains an up-to-date list identifying each community's designated enforcement officer. In addition to administering the enforcement officer program, SMC periodically reviews each community's WDO administration and enforcement records, using the results of such review to evaluate the performance of certified communities and designated enforcement officers.

Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is on-going unless otherwise noted.

Milestones

Year 1: Enforce WDO.

Year 2: Enforce WDO.

Year 3: Enforce WDO.

Year 4: Enforce WDO.

Year 5: Enforce WDO.

Additional Info

BMP Number: D4-1

The MS4 is a certified community. MS4 will administer & enforce (or assist SMC in) WDO provisions (plan review, permitting, inspections and enforcement).

BMP Number: D4-2(Q)

Provide/maintain Technical Guidance Documents.

BMP Number: D4-3(Q)

Maintain Qualified Enforcement Officer List.

BMP Number: D4-4(Q)

Implement community recertification process (for communities seeking certified community status for the enforcement of the WDO).

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☒ D.5 Public Information Handling Procedures

Brief Description of BMP

Both the MS4 and QLP provide a number of opportunities for the receipt and consideration of information submitted by the public.

Measurable Goals, including frequencies

Document, track and respond to soil erosion and sediment control related complaints received.

Milestones

Year 1: Implement SMPP.

Year 2: Implement SMPP.

Year 3: Implement SMPP.

Year 4: Implement SMPP.

Year 5: Implement SMPP.

Additional Info

BMP Number: \_\_\_\_\_

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☒ D.6 Site Inspection/Enforcement Procedures

Brief Description of BMP

Article 11 of the WDO contains both recommended and minimum requirements for the inspection of development sites. Within certified communities, the community's designated enforcement officer is responsible for conducting these inspections; within non-certified communities, SMC's chief engineer is responsible for conducting these inspections. Article 12 of the WDO specifies the legal actions that may be taken and the penalties that may be imposed if the provisions of the WDO are violated.

Measurable Goals, including frequencies

The MS4 is a certified community. MS4 will document and track the number of site inspections conducted by certified community.

Milestones

Year 1: Enforce WDO.

Year 2: Enforce WDO.

Year 3: Enforce WDO.

Year 4: Enforce WDO.

Year 5:

Additional Info

BMP Number:

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☐ D.7 Other Construction Site Runoff Controls

### E. Post-Construction Runoff Control

Approximate date first implemented: March 2003 Frequency of each BMP program: As Needed/Annually

#### Qualifying Local Programs

The Lake County Stormwater Management Commission (SMC) serves as a QLP for Lake County MS4s. SMC performs activities related to each of the six MCMs described in the permit, including activities related to Post-Construction Runoff Control. These activities provide Lake County with a baseline Countywide stormwater management program. QLP activities will continue to provide Lake County a baseline Countywide stormwater management program and support Lake County MS4s in the implementation of the Post-Construction Runoff Control MCM by administering and enforcing the WDO and performing other stormwater management activities. Individual MS4s can build upon the baseline Countywide stormwater management program.

The Village of Bannockburn has developed and implemented a Post-Construction Runoff Control program to reduce the amount of pollution contained in post-construction stormwater runoff that enters the Village of Bannockburn's storm sewer system from development sites. The Village of Bannockburn has adopted the Lake County WDO and is currently certified by SMC to administer and enforce the provisions of the WDO. The Village of Bannockburn's designated Enforcement Officer is responsible for reviewing and permitting development plans and for administering and enforcing the provisions of the WDO within the Village of Bannockburn.

Measurable Goals (include shared responsibilities)

☐ E.1 Community Control Strategy

☒ E.2 Regulatory Control Program

#### Brief Description of BMP

Proposed stormwater management strategies must address the runoff volume reduction requirements described in §503 of the WDO and must include appropriate stormwater BMPs to address the other applicable post-construction runoff control requirements of the WDO.

#### Measurable Goals, including frequencies

The MS4 is a certified community. MS4 enforces the WDO.

#### Milestones

Year 1:

Year 2:

Year 3:

Year 4:

Year 5:

Additional Info

BMP Number: \_\_\_\_\_

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☒ E.3 Long Term O & M Procedures

Brief Description of BMP

§401 of the WDO requires that maintenance plans be developed for all stormwater management systems and, §500 further details deed or plat restriction requirements for all stormwater management systems.

The Village of Bannockburn has developed long-term operation and maintenance procedures to help reduce the amount of pollution contained in post-construction stormwater runoff that enters the Village of Bannockburn's storm sewer system. The procedures address both new and existing development.

The Village of Bannockburn's long-term operation and maintenance procedures address existing development via an inspection and maintenance program. The Village of Bannockburn periodically inspects all existing post-construction stormwater management facilities (e.g., detention facilities), including those that have a maintenance plan (i.e., facilities located within developments regulated by the WDO) as well as those that do not (i.e., facilities located within developments pre-dating, and therefore not regulated by, the WDO), to identify any maintenance tasks and/or any repairs that need to be completed. Responsible parties are notified of the inspection results and of the need to complete any maintenance tasks or repairs.

Measurable Goals, including frequencies

The MS4 is a certified community. MS4 enforces the WDO.

The Village will continue to conduct inspections of existing stormwater management facilities to identify the need ofr maintenance and/or repairs.

Milestones

Year 1: Enforce WDO.

Year 2: Enforce WDO.

Year 3: Enforce WDO.

Year 4: Enforce WDO.

Year 5: Enforce WDO.

Additional Info

BMP Number: E3-1

Provide sample maintenance plan to pre-WDO sites.

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☒ E.4 Pre-Construction Review of BMP Designs

Brief Description of BMP

As described above, a community's designated enforcement officer is responsible for reviewing and permitting development plans and for administering and enforcing the provisions of the WDO. This includes a review of the stormwater BMPs that will be used to meet the post-construction runoff control requirements of the WDO and adherence to the Runoff Volume Reduction (RVR) standards of §503.

Measurable Goals, including frequencies

The MS4 is a certified community. MS4 will administer and enforce the WDO. Ensure development plans address municipal established RVR goal and incorporate green infrastructure if practicable.

Milestones

Year 1: Enforce WDO.

Year 2: Enforce WDO.

Year 3: Enforce WDO.

Year 4: Enforce WDO.

Year 5: Enforce WDO.

Additional Info

BMP Number: \_\_\_\_\_

Add a row

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☒ E.5 Site Inspections During Construction

Brief Description of BMP

As described above in MCM D.6 Article 11 of the WDO contains both recommended and minimum requirements for the inspection of development sites.

Measurable Goals, including frequencies

The MS4 is a certified community. MS4 administers and enforces the WDO.

Milestones

Year 1: Keep log, track number, respond to soil erosion and sediment controls and post construction storm water concerns

Year 2: Keep log, track number, respond to soil erosion and sediment controls and post construction storm water concerns

Year 3: Keep log, track number, respond to soil erosion and sediment controls and post construction storm water concerns

Year 4: Keep log, track number, respond to soil erosion and sediment controls and post construction storm water concerns

Year 5: Keep log, track number, respond to soil erosion and sediment controls and post construction storm water concerns

Additional Info

BMP Number: \_\_\_\_\_

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☒ E.6 Post-Construction Inspections

#### Brief Description of BMP

SMC has collaborated on a number of watershed-based plans throughout the County. These watershed plans included stream and detention basin inventories. The plans also include a list of site-specific best management practices within various communities based on an assessment of these inventories and other data. SMC may assist communities in identifying potential project sites, recommended in adopted watershed plans, within their jurisdictional boundaries based on need and funding resources. Provisions of WDO §401, also requires a maintenance plan that includes the party responsible and funding sources of all stormwater management system components.

#### Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is on-going unless otherwise noted.

#### Milestones

Year 1: Enforce WDO.

Year 2: Enforce WDO.

Year 3: Enforce WDO.

Year 4: Enforce WDO.

Year 5: Enforce WDO.

#### Additional Info

BMP Number: E6-1

The MS4 is a certified community. MS4 administers and enforces the WDO.

BMP Number: E6-2(Q)

Develop an application, for use by MS4s, to identify adopted watershed plan recommendations within their communities.

BMP Number: E6-3(Q)

Maintain Watershed Planning Status, (<https://www.lakecountyil.gov/DocumentCenter/View/10930/Watershed-Planning-Status-Map-PDF>).

BMP Number: E6-4(Q)

Develop Watershed Based Plans, (<https://www.lakecountyil.gov/2437/Watershed-Management-Plans>).

BMP Number: E6-5

Consider public implementation of watershed plan recommendations as part of fiscal planning/budgeting. Encourage property owners to implement watershed plan recommendations (streambank, shoreline, detention basin etc).

BMP Number: E6-6

Inspect receiving water streambanks for erosion and flow lines for sediment accumulation (in concert with outfall inspection and pre-screening efforts).

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☒ E.7 Other Post-Construction Runoff Controls

Brief Description of BMP

Through the Watershed Management Board (WMB), SMC provides partial funding for flood damage reduction and surface water quality improvement projects. The WMB, which includes representatives from the Lake Michigan, North Branch of the Chicago River, Fox River, and Des Plaines River watersheds, meets annually to review potential projects and to make recommendations on stormwater BMP project funding. Members of the WMB include chief municipal elected officials, township supervisors, drainage district chairmen, and county board members from each district found within each of Lake County's four major watersheds. The goal of the WMB program is to maximize opportunities for local units of government and other groups to have input and influence on the solutions used to address local stormwater management problems. Previous WMB-funded projects have reduced flooding, improved surface water quality, and enhanced existing stormwater management facilities throughout Lake County.

Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is on-going unless otherwise noted.

Milestones

Year 1: Implement SMPP.

Year 2: Implement SMPP.

Year 3: Implement SMPP.

Year 4: Implement SMPP.

Year 5: Implement SMPP.

Additional Info

BMP Number: E7-1

Implement street sweeping procedures described in SMPP.

BMP Number: E7-2

Inspect swales and overland flow paths for erosion and sediment accumulation, report.

BMP Number: E7-3

Collect yard waste/leaves.

BMP Number: E7-4(Q)

Conduct annual WMB meeting. Administer/fund grant program.

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## F. Pollution Prevention/Good Housekeeping

Approximate date first implemented: March 2003

Frequency of each BMP program: As Needed

### Qualifying Local Programs

The Lake County Stormwater Management Commission (SMC) serves as a QLP for Lake County MS4s. SMC performs activities related to each of the six MCMs described in the permit, including activities related to Pollution Prevention/Good Housekeeping. These activities provide Lake County with a baseline Countywide stormwater management program. QLP activities will continue to provide Lake County a baseline Countywide stormwater management program and support Lake County MS4s in the implementation of the Pollution Prevention/Good Housekeeping MCM. Individual MS4s can build upon the baseline Countywide stormwater management program.

The Village of Bannockburn has developed and implemented a Pollution Prevention/Good Housekeeping program to reduce the amount of pollution generated by municipal activities and operations. The program includes: an inspection and maintenance program that incorporates pollution prevention and good housekeeping practices into day-to-day activities and operations.

In coordination and collaboration with the QLP, the Village of Bannockburn will continue to perform activities related to the Pollution Prevention/Good Housekeeping minimum control measure, as described below. Note that although the Village of Bannockburn intends to share responsibility for the implementation of the Pollution Prevention/Good Housekeeping MCM with the QLP, as outlined in this NOI, the primary responsibility for the implementation of the Pollution Prevention/Good Housekeeping MCM lies with the Village of Bannockburn.

### ☒ F.1 Employee Training Program

#### Brief Description of BMP

The MS4's Pollution Prevention/Good Housekeeping program includes: the evaluation and improvement of municipal policies and procedures to reduce the discharge of pollutants from municipal activities and operations; and, a training program for municipal employees.

#### Measurable Goals, including frequencies

Refer to BMP's below. BMP numbers without a "Q" are administered by the MS4. "Q" BMP numbers are administered by the QLP and supported by the MS4. BMP implementation is on-going unless otherwise noted.

#### Milestones

Year 1: Implement SMPP.

Year 2: Implement SMPP.

Year 3: Implement SMPP.

Year 4: Implement SMPP.

Year 5: Implement SMPP.

#### Additional Info

Measurable Goals (include shared responsibilities)

BMP Number: F1-1

Ensure applicable Village staff trained to implement SMPP. Encourage employees to attend all relevant training sessions offered by the QLP and other entities on topics related to the goals/objectives of the Storm Water Management Program.

BMP Number: F1-2

Maintain the general facilities, municipal roads, its general facilities, and associated maintenance yards as described in the SMPP.

BMP Number: F1-3(Q)

QLP will assist Lake County MS4s with the development and implementation of their employee training programs by maintaining a list of known employee training resources and opportunities, making available a software-based employee training program, and providing technical assistance to local MS4s.

BMP Number: F1-4(Q)

Sponsor or co-sponsor a training workshop related to pollution prevention/good housekeeping or other training workshop related to IEPA's NPDES Stormwater Program.

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☒ F.2 Inspection and Maintenance Program

Brief Description of BMP

The Pollution Prevention/Good Housekeeping program described in the SMPP includes measures to reduce the amount and type of pollution that: (1) collects on streets, parking lots, open spaces, and storage and vehicle maintenance areas and is discharged into local waterways; and (2) results from actions such as environmentally damaging land development and flood management practices or poor maintenance of storm sewer systems. Clean, correct, or otherwise address identified storm and sanitary sewer trouble areas.

The Village of Bannockburn regularly inspects and maintains municipally owned or operated properties and infrastructure, including streets, parking lots, stormwater management facilities, storm sewers, landscaped areas, and maintenance facilities. A primary goal of the operation and maintenance program is to address municipal infrastructure repair and maintenance needs in a way that reduces the amount of pollution that collects or that is generated on municipally owned or operated properties. Consequently, the Village of Bannockburn works to incorporate pollution prevention and good housekeeping into its day-to-day activities and operations.

Village contractor conducts inspection and routine maintenance of several Village detention/retention ponds' outlet control structures through an annual contract and the inspections and maintenance occur on a monthly basis. The Village has initiated an annual Village storm sewer and street culvert maintenance program. Services include jetting of storm sewers and cleaning structures of debris and sediment, as well as including an inventory of the condition of the system which can be incorporated into the storm sewer atlas data base.

Measurable Goals, including frequencies

Implement Good House Keeping provisions of the SMPP including inspecting and reconditioning spreaders and spinners annually.

The Village will establish a schedule for street sweeping to reduce the amount of pollution (sand, salt, leaves, etc) that accumulates on streets, which has the potential to reach waterways as runoff. Implement street sweeping at established annual frequency and document. Additionally, it will establish a schedule for visual storm sewer inspection and inspect storm sewers at established annual frequency and document and schedule maintenance as needed. The Village will continue to distribute educational materials on spill prevention and control procedures to all municipal facilities.

Milestones

Year 1: Implement SMPP.

Year 2: Implement SMPP.

Year 3: Implement SMPP.

Year 4: Implement SMPP.

Year 5: Implement SMPP.

Additional Info

BMP Number: \_\_\_\_\_

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☒ F.3 Municipal Operations Storm Water Control

Brief Description of BMP

The SMPP identifies where maintenance and washing of MS4 fleet is done, how lubricant and oil spills are handled, how/where road salt and chemicals are stored, etc.

Measurable Goals, including frequencies

Follow Snow Removal and Ice Control procedures and maintain green infrastructure as described in SMPP.

Milestones

Year 1: Implement SMPP.

Year 2: Implement SMPP.

Year 3: Implement SMPP.

Year 4: Implement SMPP.

Year 5: Implement SMPP.

Additional Info

BMP Number: \_\_\_\_\_

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☒ F.4 Municipal Operations Waste Disposal

Brief Description of BMP

The SMPP identifies additional measures that help ensure a reduction in the amount and type of pollution that results from waste disposal operations, such as separate storm sewer systems, roads and parking lots, maintenance and storage yards (including salt/sand storage and snow disposal areas), and waste transfer stations.

Measurable Goals, including frequencies

Refer to BMP's below.

Milestones

Year 1: 

Implement SMPP.

Year 2: 

Implement SMPP.

Year 3: 

Implement SMPP.

Year 4: 

Implement SMPP.

Year 5: 

Implement SMPP.

Additional Info

BMP Number: F4-1

Remove litter/debris from MS4 property, roadway right-of-ways, facilities, park & rec areas. Collect and disposal of "road kill" and carcasses.

BMP Number: F4-2

Implement vehicle maintenance collection and disposal (waste oil, antifreeze, batteries, tires) measures as described in SMPP.

BMP Number: F4-3

Prevent/Minimize illicit discharges from Special Events, as necessary.

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☒ F.5 Flood Management/Assess Guidelines

Brief Description of BMP

In working toward meeting its primary goals of flood damage reduction and surface water quality improvement, QLP follows a set of stormwater management policies that were created to define its roles and responsibilities for stormwater management in Lake County. One of these policies is to integrate multi-objective opportunities (e.g., flood damage reduction, surface water quality improvement, environmental enhancement) into SMC-sponsored projects.

Measurable Goals, including frequencies

The QLP will track number of SMC-sponsored projects that are reviewed for multi-objective opportunities, annually.

Milestones

Year 1: 

Implement SMPP.

Year 2: 

Implement SMPP.

Year 3: 

Implement SMPP.

Year 4: 

Implement SMPP.

Year 5: 

Implement SMPP.

Additional Info

BMP Number: \_\_\_\_\_

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☒ F.6 Other Municipal Operations Controls

Brief Description of BMP

Measurable Goals, including frequencies

The QLP continues to advise MS4 communities of watershed groups addressing issues associated with the use of chlorides (i.e. road salt). SMC will make available chloride reduction documents on take-away racks and the website.

Milestones

Year 1: Implement SMPP.

Year 2: Implement SMPP.

Year 3: Implement SMPP.

Year 4: Implement SMPP.

Year 5: Implement SMPP.

Additional Info

BMP Number: \_\_\_\_\_

Add a row

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**BMPs Currently Implemented and Proposed**

| BMP Number | Location                                                                |
|------------|-------------------------------------------------------------------------|
|            | All BMPs described above are currently implemented non-structural BMPs. |
|            | All BMPs described above are currently proposed non-structural BMPs.    |

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**Approximate Pollutant Reduction Resulting from each BMP**

| BMP Number | Pollutant                                                    | Reduction |
|------------|--------------------------------------------------------------|-----------|
|            | *To be added upon receipt of formal guidance issued by IEPA. |           |

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**Instream Monitoring Program**

Is there an instream monitoring program currently in place? ☒ Yes ☐ No

Is an instream monitoring program currently being proposed? ☐ Yes ☒ No

If Yes, which parameters are monitored and at what frequency?

| Parameter                                            | Frequency     |
|------------------------------------------------------|---------------|
| *See description in "other monitoring" below.        |               |
| Streambank inspection for erosion and other concerns | ~20% per year |

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### Sediment Monitoring

Is sediment monitoring currently taking place?

☒ Yes ☐ No

If Yes, please describe the sediment sampling program.

\*See description in "other monitoring" below.

Detention basins within the Township are inspected on a 5 year cycle. Approximately 20% of detention basins are inspected annually, or 100% within 5 years.

### Sample Monitoring of Outfalls

Is sample monitoring of outfalls currently taking place?

☒ Yes ☐ No

If Yes, list locations, pollutant parameters, and frequency of sampling.

| Location                           | Pollutant Parameter | Frequency of Sampling |
|------------------------------------|---------------------|-----------------------|
| *See description in "other" below. |                     |                       |
| *See Sec. C. IDDE BMPs above.      |                     |                       |

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### Other Monitoring

Describe other types of monitoring implemented or proposed to evaluate the BMP effectiveness or water quality impact of stormwater.

There are extensive monitoring efforts already underway across the County which directly reflect the water quality of the waters within the MS4.

☐ The North Branch Watershed Workgroup (NBWW) monitors water quality in the North Branch Chicago River and tributaries to accurately identify the quality of the river ecosystems as well as stressors associated with non-attainment of water quality standards and designated uses. Each Annual Report will describe the extent of the NBWW monitoring efforts.

☐ The LCHD Lakes Management Unit has been collecting water quality data on Lake County lakes since the late 1960s. Since 2000, 176 different lakes each year have been studied and data collected on temperature, dissolved oxygen, phosphorus, nitrogen, solids, pH, alkalinity, chloride, conductivity, water clarity, the plant community and shoreline characteristics.

☐ Lake Michigan Beaches have a significant portion of the Lake Michigan Beaches listed as impaired. The LCHD samples beaches from approximately Memorial Day to Labor Day. These results are used by the LCHD, in concert with other data collected by IEPA, to determine if TMDL implementation recommendations have resulted in load reductions and improved overall beach health.

☐ Inland Beaches are monitored bimonthly from May to September by Lake County Health Department's Lake Management Unit (LMU). Bacteria concentrations at inland beaches and recreational areas resulting in high concentrations of E coli bacteria are the basis of swim bans. The IEPA uses the number and duration of swim bans to assess whether or not the beaches support designated uses for primary contact recreation.

The Village completes inspections of high priority outfalls annually.

### Part III. Certification

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

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)).

Stephanie Hannon

Authorized Representative Name

Village Manager

Title

*Stephanie L. Hannon*

Authorized Representative Signature

February 18, 2021

Date

You may complete this form online and save a copy locally before printing and signing the form. It should then be sent to:

Illinois Environmental Protection Agency  
Bureau of Water  
Division of Water Pollution Control  
Attn: Permit Section  
P.O. Box 19276  
1021 North Grand Avenue East  
Springfield, IL 62794-9276

Information required by this form must be provided to comply with 415 ILCS 5/39 (2000). Failure to do so may prevent this form from being processed and could result in your application being denied.

# Attachment A

| #  | Assessment Unit ID | Name                                   | Basin Name          | Impairment                                                                                                                                                      | Area(acres) | Length(mi) | TMDL Status |
|----|--------------------|----------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|-------------|
| 1  | IL_HCCC-02         | Middle Fork North Branch Chicago River | N/A                 | Bottom Deposits, Chloride, DDT, Fecal Coliform, Hexachlorobenzene, Oxygen, Dissolved, Phosphorus (Total), Sedimentation/Siltation, Total Suspended Solids (TSS) | N/A         | 8.11       | Stage 3     |
| 2  | IL_HCCD-01         | Skokie River                           | N/A                 | Chloride, Fecal Coliform, Oxygen, Dissolved, Phosphorus (Total), Total Suspended Solids (TSS)                                                                   | N/A         | 6.69       | Stage 3     |
| 3  | IL_HCCB-05         | West Fork North Branch Chicago River   | N/A                 | Aldrin, Chloride, DDT, Endrin, Fecal Coliform, Hexachlorobenzene, Oxygen, Dissolved, Phosphorus (Total), Total Suspended Solids (TSS)                           | N/A         | 5.73       | Stage 3     |
| 4  | IL_G-36            | Des Plaines River                      | N/A                 | Fecal Coliform, Mercury, Phosphorus (Total), Polychlorinated biphenyls                                                                                          | N/A         | 4.33       | N/A         |
| 5  | IL_G-35            | Des Plaines River                      | N/A                 | Cause Unknown, Mercury, Phosphorus (Total), Polychlorinated biphenyls                                                                                           | N/A         | 3.13       | N/A         |
| 6  | IL_GU-02           | Indian Creek                           | N/A                 | Oxygen, Dissolved                                                                                                                                               | N/A         | 1.89       | N/A         |
| 7  | IL_UHH             | Eagle                                  | Great Lakes/Calumet | Phosphorus (Total), Total Suspended Solids (TSS)                                                                                                                | 18.47       | N/A        | N/A         |
| 8  | IL_VGH             | WERHANE LAKE                           | Des Plaines         | Phosphorus (Total), Total Suspended Solids (TSS)                                                                                                                | 12.8        | N/A        | N/A         |
| 9  | IL_RHK             | ELEANOR                                | Great Lakes/Calumet | Phosphorus (Total), Total Suspended Solids (TSS)                                                                                                                | 10.57       | N/A        | N/A         |
| 10 | IL_WGU             | Old Mill                               | Des Plaines         | Phosphorus (Total), Total Suspended Solids (TSS)                                                                                                                | 8.12        | N/A        | N/A         |
| 11 | IL_UGB             | Halfday Pit                            | Des Plaines         | Total Suspended Solids (TSS)                                                                                                                                    | 7           | N/A        | N/A         |
| 12 | IL_WGL             | MEADOW LAKE E.                         | Des Plaines         | Phosphorus (Total), Total Suspended Solids (TSS)                                                                                                                | 3.6         | N/A        | N/A         |
| 13 | IL_WGF             | Meadowlake West                        | Des Plaines         | Phosphorus (Total), Total Suspended Solids (TSS)                                                                                                                | 3.16        | N/A        | N/A         |