



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

- Name of Municipality: Antioch Township MS4 #: ILR400003
Population (based on 2010 census): 27745
- MS4 Mailing Address: 933 Bartlett Avenue City: Antioch, IL Zip: 60002
- Primary MS4 Contact Person (Authorized Representative for MS4 Permit)
Name: Eric Ring Title: Highway Commissioner
Phone: (847) 395-2070 Email Address: ering@antiochtownshipil.gov

General Information

- Latitude and Longitude at approximate geographical center of MS4 for which you are requesting authorization to discharge:
Latitude: 42 28 13.3 Longitude: -88 05 52.6
Degrees Minutes Seconds Degrees Minutes Seconds
- Community Type: Township ☒ Other: _____
- Name(s) of governmental entity(ies) in which MS4 is located:

City/Village	Township	County
N/A	Antioch	Lake
- Area of land within your MS4 in square miles: 31.59
- 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>.

- | Name(s) of known receiving waters (in and within 3 miles of MS4 area) | Impairment listed on 303d List or TMDL? |
|---|---|
| See attachment A | ☒ Yes ☐ No |

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

Causes: See attachment A

Source: See attachment A

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: Geoffrey L. Perry, P.E. Title: Engineer

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

Area of Responsibility: Technical Guidance

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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, Antioch Township 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, Antioch Township will continue to perform activities related to the Public Education and Outreach MCM, as described below.

☒ **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 Township works to compile and distribute within the Township a variety of materials related to stormwater management from a variety of sources, including Lake County Stormwater Management Commission, Illinois EPA, US EPA, the Center for Watershed Protection, and other agencies and organizations. The Township's SMPP contains a list of materials made available to the public and the methods through which such materials have been distributed.

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.

Antioch Township began distributing informational materials from a "take away" rack at the Highway Commissioner's office in 2016 and plans to continue doing so on an annual basis.

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

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.

Measurable Goals (include shared responsibilities)

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.

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.

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, Antioch Township 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 Township will continue to perform activities related to the Public Education and Outreach of MCM, as described below.

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 Township 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 Township 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 Township attends and provides notice of stakeholder meetings on the Township website and began implementation of this BMP in 2016 and will continue to implement it on an annual basis.

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

The Township coordinates and conducts public meetings as well as committee meetings that are open to the public. A monthly Board Meeting is open to the public and involves the Township Officials (Supervisor, Assessor, Highway Commissioner and Clerk) as well as four elected Trustees. Periodically, information about Township's stormwater management program is presented at such meetings.

Measurable Goals, including frequencies

The Township began implementation of this BMP in 2016 and will continue presenting information about the Township's stormwater management program 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.

The Township attends and participates in the MAC meetings.

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.

Continue to attend and participate in MAC meetings - Engineer will attend on the Township's behalf.

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 State 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.

The Township provides and publicizes a phone number that the public can use to submit information about stormwater-related problems and concerns. The Township 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

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

As needed, follow up on reports of stormwater-related problems and concerns received from the public. The Township began implementation of this BMP in 2016 and will continue to implement it on an annual 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: B7-1(M)

The Township provides a phone number the public can use to submit information about stormwater-related problems and concerns and began implementation of this BMP in 2016 and will continue to implement it on an annual basis.

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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 Township conducts a number of activities related to Illicit Discharge Detection and Elimination. In accordance with the permit, the Township's Illicit Discharge Detection and Elimination program includes:

- A map showing the locations of all outfalls and the names and locations of all waters that receive discharges from those outfalls;
- A plan to detect and address all non-stormwater discharges, including illegal dumping, into the storm sewer system; and
- Periodic inspection of storm sewer outfalls for detection of non-stormwater discharges and illegal dumping.

In coordination and collaboration with the QLP, the Township will continue to perform activities related to the Illicit Discharge Detection and Elimination MCM, as described below. Note that although the Township 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 Township.

☒ 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 Township updates the outfall map as needed, including new permits and outfall inventory updates.

Measurable Goals (include shared responsibilities)

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 Township will maintain and update storm sewer system map. The Township began implementation of this BMP in 2017 and will continue to implement it on an annual 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: 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).
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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.

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 ordinances.
Year 2:	Enforce ordinances.
Year 3:	Enforce ordinances.

Year 4: Enforce ordinances.

Year 5: Enforce ordinances.

Additional Info

BMP Number: C2-1

The MS4 is a non-certified community. The QLP administers and enforces the WDO including plan review, permitting, inspections and enforcement.

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.

The Township has developed and implemented a plan to detect and address all non-stormwater discharges, including illegal dumping, into the storm sewer system. Methods used to detect illicit discharges include periodic visual dry weather screening, employee reporting, and public reporting. Outfalls with suspicious discharges are assessed to determine whether or not flow is observed and whether or not any indicators of an illicit discharge are present. The result 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

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.

The Township conducts annual inspections of storm sewer outfalls for detection of illicit discharges. The Township also continues to investigate potential illicit discharges identified by employees conducting day-to-day activities and operations (e.g., storm sewer cleaning and maintenance). The Township also continues to investigate potential illicit discharges identified through public reporting.

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: 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-ys)

BMP Number: C3-3

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

Measurable Goals, including frequencies

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

The Township, as needed, implements procedures for tracking illicit discharges to their sources and began implementation in 2016 and will continue to implement it on an annual 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.5 Illicit Source Removal Procedures

Brief Description of BMP

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

The Township has developed 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 Township, as needed, implements procedures for removing illicit discharges from the storm drain system and began implementation in 2016 and will continue to implement it on an annual 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.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 Township periodically evaluates and assesses the effectiveness of its Illicit Discharge Detection and Elimination program. This evaluation is generally based on the results of the Township's visual dry weather screening program and on the number of non-stormwater discharges and illegal dumping incidents identified through both employee and public reporting. If the Township'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 Township conducts annual evaluation and assessment of illicit discharge detection and elimination program and began implementation of this BMP in 2016 and will continue to implement it on an annual basis.

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 permit, the Township plans to conduct periodic inspections of storm sewer outfalls for detection of non-stormwater discharges and illegal dumping – following the current ongoing GPS locating of the Township's outfalls. During such inspections, outfalls will be assessed to determine whether or not flow is observed and whether or not any indicators of an illicit discharge are present.

Measurable Goals, including frequencies

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

The Township conducts annual inspections of storm sewer outfalls for detection of illicit discharges and began implementation of this BMP in 2018.

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: _____

--

Add a row

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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 Township provides and publicizes a phone number that the public can use to submit information about stormwater-related problems and concerns. The Township 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.

As needed, the Township follows up on reports of illicit discharges and illegal dumping received from the public and began implementation of this BMP in 2016 and will continue to implement it on an annual 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: _____

Add a row

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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.

As part of its Public Education and Outreach Program, the Township distributes informational materials to businesses and the general public about the hazards associated with illegal discharges and the improper disposal of waste.

Measurable Goals, including frequencies

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

The Township distributes informational materials about the hazards of illicit discharges and illegal dumping from the "take away" rack at the Township Highway office and began implementation of this BMP in 2016 and will continue to implement it on an annual basis.

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: _____

Add a row

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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.

Lake County has adopted a countywide Watershed Development Ordinance (WDO) that establishes the minimum stormwater management requirements for development in Lake County. The WDO, which is administered and enforced within the Township by SMC, establishes standards for Construction Site Runoff Control. Although the Township intends to share responsibility for the implementation of the Construction Site Runoff Control MCM with the QLP, as outlined in this NOI, the primary responsibility for the implementation of the Construction Site Runoff Control MCM lies with SMC, as the Township is currently a Non-Certified Community, as defined by the WDO.

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 non-certified community. The QLP administers and enforces the WDO including 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.

Add a row

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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 non-certified community. The QLP 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

Delete last row

☒ 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 non-certified community. The QLP administers and enforces the WDO including plan review, permitting, inspections and enforcement.

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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Add a row

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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 non-certified community. The QLP administers and enforces the WDO including 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).

Add a row

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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: _____

Add a row

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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 non-certified community. The QLP administers and enforces the WDO including plan review, permitting, inspections and enforcement.

Milestones

Year 1: Enforce WDO.

Year 2: Enforce WDO.

Year 3: Enforce WDO.

Year 4: Enforce WDO.

Year 5:

Additional Info

BMP Number:

Add a row

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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.

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 non-certified community. The QLP administers and enforces the WDO including plan review, permitting, inspections and enforcement.

Milestones

Year 1:

Year 2:

Year 3:

Year 4:

Year 5:

Additional Info

BMP Number:

Add a row

Delete last row

☒ 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.

Measurable Goals, including frequencies

The MS4 is a non-certified community. The QLP administers and enforces the WDO including plan review, permitting, inspections and enforcement.

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.

Add a row

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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 non-certified community. The QLP administers and enforces the WDO including plan review, permitting, inspections and enforcement.

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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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 non-certified community. The QLP administers and enforces the WDO including plan review, permitting, inspections and enforcement.

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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Add a row

Delete last row

☒ 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 non-certified community. The QLP administers and enforces the WDO including plan review, permitting, inspections and enforcement.

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).

Add a row

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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/leafs.

BMP Number: E7-4(Q)

Conduct annual WMB meeting. Administer/fund grant program.

Add a row

Delete last row

F. Pollution Prevention/Good Housekeeping

Approximate date first implemented: _____ Frequency of each BMP program: _____

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.

In accordance with the permit, Antioch Township 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 employee training program; an inspection and maintenance program that incorporates pollution prevention and good housekeeping practices into day-to-day activities and operations; stormwater pollution control and non-stormwater discharge control procedures; waste management and disposal procedures; and, spill prevention, control, and cleanup procedures.

In coordination and collaboration with the QLP, Antioch Township will continue to perform activities related to the Pollution Prevention/Good Housekeeping minimum control measure, as described below. Note that although the Township 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 Township.

☒ 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.

The Township has developed and implemented an employee training program to help educate employees about the impacts of the pollution generated by municipal activities and operations and the steps that they can take to reduce those impacts. The employee training program teaches employees about the following: the impacts of stormwater runoff on receiving water bodies; the activities and operations that may be sources of stormwater pollution and/or non-stormwater discharges; the roles and responsibilities of each department and each individual employee in reducing the amount of pollution generated by municipal activities and operations; selecting and implementing stormwater best management practices; and, managing and maintaining green infrastructure practices.

Employees are subjected to a software-based employee training program, which provides baseline training on municipal pollution prevention/good housekeeping and are encouraged to attend relevant training opportunities that appear on the list of known employee training resources and opportunities provided by the QLP. Additionally, the Township works to identify and develop employee training resources and opportunities that contain educational materials tailored to those activities and operations conducted by specific departments and 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. The Township began implementation of this BMP in March 2003 and continues to develop and implement the employee training program.

Milestones

Year 1:	Implement SMPP.
Year 2:	Implement SMPP.
Year 3:	Implement SMPP.
Year 4:	Implement SMPP.

Measurable Goals (include shared responsibilities)

Year 5: Implement SMPP.

Additional Info

BMP Number: F1-1

Ensure applicable 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.

Add a row

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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 Township 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 inspection 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 Township works to incorporate pollution prevention and good housekeeping into its day-to-day activities and operations.

Measurable Goals, including frequencies

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

The Township continues to implement the inspection and maintenance program as well as incorporate pollution prevention and good house keeping practices into day-to-day activities and operations. The Township began implementation of this BMP in 2003 and will continue to implement it on an annual basis.

Milestones

Year 1: Implement SMPP.

Year 2: Implement SMPP.

Year 3:

Year 4:

Year 5:

Additional Info

BMP Number:

Add a row

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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.

As part of its pollution prevention/good house keeping efforts, the Township has identified municipal activities and operations with potential to cause stormwater pollution or result in a non-stormwater discharge (e.g., vehicle maintenance, winter roadway maintenance). Through its employee training and operation and maintenance programs, the Township works to incorporate pollution prevention and good housekeeping practices into these activities and operations.

Measurable Goals, including frequencies

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

The Township began implementation of this BMP in March 2003 and continues to incorporate pollution prevention and good housekeeping practices into day-to-day activities and operations.

Milestones

Year 1:

Year 2:

Year 3:

Year 4:

Year 5:

Additional Info

BMP Number:

Add a row

Delete last row

☒ 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.

Waste management consists of implementing non-structural (i.e., procedural) and structural pollution prevention and good housekeeping practices for handling, storing, and disposing of wastes generated by municipal activities and operations. Through its employee training and operation and maintenance programs, the Township works to incorporate these waste management practices into its day-to-day activities and operations to prevent the release of waste into the storm sewer system.

Measurable Goals, including frequencies

Refer to BMP's below.

The Township began implementation of this BMP in March 2003 and continues to incorporate waste management practices into day-to-day activities and operations.

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.

Add a row

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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:

Year 3:

Year 4:

Year 5:

Additional Info

BMP Number:

Add a row

Delete last row

☒ F.6 Other Municipal Operations Controls

Brief Description of BMP

The Township has developed spill prevention, control, and cleanup procedures to prevent and respond to spills that result from municipal activities and operations. Through its employee training and operation and maintenance programs, the Township works to incorporate these spill prevention, control, and cleanup procedures into its day-to-day activities and operations to prevent the release of spills into the storm sewer system.

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.

The Township began implementation of this BMP in March 2003 and continues to incorporate spill prevention, control, and cleanup procedures into day-to-day activities and operations.

Milestones

Year 1:

Year 2:

Year 3:

Year 4:

Year 5:

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.

Add a row

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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.	

Add a row

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Instream Monitoring ProgramIs there an instream monitoring program currently in place? ☒ Yes ☐ NoIs 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

Add a row

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Sediment MonitoringIs 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 OutfallsIs 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.		

Add a row

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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 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 Township 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)).

Eric Ring

Authorized Representative Name

Highway Commissioner

Title



Authorized Representative Signature

2-22-2021

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_GWA	North Mill Creek	N/A	Arsenic, Manganese, Phosphorus (Total), Sedimentation/Siltation	N/A	5.48	N/A
2	IL_GW-02	Mill Creek	N/A	Oxygen, Dissolved, pH	N/A	5.37	N/A
3	IL_DT-35	Fox River	N/A	Fecal Coliform, Polychlorinated biphenyls, Sedimentation/Siltation	N/A	5.03	N/A
4	IL_GWAA	Hastings Creek	N/A	Arsenic, Phosphorus (Total), Sedimentation/Siltation	N/A	4.04	N/A
5	IL_GWAB	Dutch Gap Canal	N/A	Arsenic, Manganese, Phosphorus (Total), Sedimentation/Siltation	N/A	1.1	N/A
6	IL_DTK-04	Nippersink Creek	N/A	Fecal Coliform, Mercury, Polychlorinated biphenyls	N/A	0.86	N/A
7	IL_RTF	FOX	Upper Fox	Phosphorus (Total), Polychlorinated biphenyls, Total Suspended Solids (TSS)	1,998.62	N/A	Stage 3
8	IL_RTQ	GRASS	Upper Fox	Phosphorus (Total), Polychlorinated biphenyls, Total Suspended Solids (TSS)	1,582.21	N/A	Stage 3
9	IL_RTU	PISTAKEE	Upper Fox	Mercury, Phosphorus (Total), Polychlorinated biphenyls, Total Suspended Solids (TSS)	803.24	N/A	Stage 3
10	IL_RTR	Marie	Upper Fox	Mercury, Phosphorus (Total), Polychlorinated biphenyls, Total Suspended Solids (TSS)	594.62	N/A	Stage 3
11	IL_RTUA	NIPPERSINK	Upper Fox	Phosphorus (Total), Total Suspended Solids (TSS)	507.47	N/A	N/A
12	IL_RTI	Channel	Upper Fox	Mercury, Phosphorus (Total), Polychlorinated biphenyls	363.41	N/A	Stage 3
13	IL_RTJ	Long	Upper Fox	Phosphorus (Total), Total Suspended Solids (TSS)	315.71	N/A	Stage 3
14	IL_RTK	Cedar	Upper Fox	Mercury, Phosphorus (Total)	299.33	N/A	N/A
15	IL_VTD	Deep	Upper Fox	Fecal Coliform, Mercury	224.66	N/A	Stage 3
16	IL_VGD	REDWING SLOUGH	Des Plaines	Phosphorus (Total), Total Suspended Solids (TSS)	201.74	N/A	N/A
17	IL_VTW	Petite	Upper Fox	Mercury, Phosphorus (Total)	197.93	N/A	Stage 3
18	IL_RTM	EAST LOON	Upper Fox	Phosphorus (Total)	188.36	N/A	N/A
19	IL_RTZB	WEST LOON	Upper Fox	Mercury	166.01	N/A	N/A
20	IL_RTD	Catherine	Upper Fox	Phosphorus (Total), Polychlorinated biphenyls	159.74	N/A	Stage 3
21	IL_RGZA	Crooked	Des Plaines	Phosphorus (Total), Total Suspended Solids (TSS)	139.53	N/A	N/A
22	IL_RTZG	DUCK	Upper Fox	Phosphorus (Total), Total Suspended Solids (TSS)	112.3	N/A	Stage 3
23	IL_VTJ	BLUFF	Upper Fox	Phosphorus (Total), Total Suspended Solids (TSS)	100.98	N/A	Stage 3
24	IL_RGM	SAND	Des Plaines	Phosphorus (Total)	100.45	N/A	N/A
25	IL_RTT	ANTIOCH	Upper Fox	Phosphorus (Total), Total Suspended Solids (TSS)	87.83	N/A	Stage 3
26	IL_RGZB	Hastings	Des Plaines	Fecal Coliform, Phosphorus (Total), Total Suspended Solids (TSS)	73.03	N/A	N/A
27	IL_WGS	WATERFORD (WALDEN)	Des Plaines	Phosphorus (Total), Total Suspended Solids (TSS)	67.45	N/A	N/A
28	IL_VTH	DUNNS	Upper Fox	Phosphorus (Total), Total Suspended Solids (TSS)	67.04	N/A	Stage 3
29	IL_WGZF	DEER LAKE	Des Plaines	Phosphorus (Total)	59.53	N/A	N/A
30	IL_UGY	Rasmussen	Des Plaines	Oxygen, Dissolved, Phosphorus (Total), Total Suspended Solids (TSS)	51.77	N/A	N/A
31	IL_UGX	White	Des Plaines	Phosphorus (Total)	42.9	N/A	N/A
32	IL_VTZA	TURNER	Upper Fox	Phosphorus (Total), Total Suspended Solids (TSS)	42.13	N/A	Stage 3
33	IL_STC	LITTLE SILVER	Upper Fox	Cause Unknown	41.74	N/A	N/A
34	IL_RGZE	SLOUGH	Des Plaines	Oxygen, Dissolved, Phosphorus (Total), Total Suspended Solids (TSS)	37.51	N/A	N/A
35	IL_RGZT	SPRING	Upper Fox	Phosphorus (Total), Total Suspended Solids (TSS)	32.55	N/A	Stage 3
36	IL_RTV	Redhead	Upper Fox	Phosphorus (Total), Total Suspended Solids (TSS)	31.18	N/A	Stage 3
37	IL_RGC	LINDEN	Des Plaines	Phosphorus (Total)	30.14	N/A	N/A
38	IL_UTV	CROSS	Upper Fox	Cause Unknown	26.23	N/A	N/A
39	IL_UTW	LAKE TRANQUILITY	Upper Fox	Phosphorus (Total), Total Suspended Solids (TSS)	26	N/A	Stage 3
40	IL_UTX	McGREAL LAKE	Upper Fox	Phosphorus (Total)	24.19	N/A	Stage 3
41	IL_RTC	SUN	Upper Fox	Cause Unknown	23.96	N/A	N/A
42	IL_RGZK	Potomac	Des Plaines	Phosphorus (Total)	14.6	N/A	N/A
43	IL_STG	LEISURE	Upper Fox	Phosphorus (Total), Total Suspended Solids (TSS)	10.19	N/A	N/A
44	IL_UTA	MATTHEWS	Upper Fox	Phosphorus (Total), Total Suspended Solids (TSS)	1.49	N/A	N/A