



# Village of Northbrook

655 Huchl Road Northbrook, Illinois 60062 847.272.4711 Fax 847.272.3629 [www.northbrook.il.us](http://www.northbrook.il.us)

## PUBLIC WORKS DEPARTMENT

March 1, 2023

Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Attn: Permit Section  
P.O. Box 19276  
Springfield, Illinois 62794-9276

**Re: NPDES Phase II Notice of Intent (NOI) Submittal**

Please find enclosed one (1) copy of the completed and signed Notice of Intent (NOI) for the Village of Northbrook's NPDES Phase II permit compliance. This document has been prepared after careful consideration by the various Village Departments and a thorough review of our current stormwater management programs and activities.

The Village has a proactive view toward stormwater issues. We have a number of public education programs, commissions, ordinances, regulations/standards and public works activities currently in place that reduce non-point source pollution. Continuing these programs and activities, as well as adding additional ones which complement the needs of the community, will not only put the Village in compliance with NPDES Phase II regulations but will also provide a benefit to the Village.

If you have any questions regarding the enclosed NOI, please contact Jim Baxa, Civil Project Engineer at (847) 664-4119 or by email at [jim.baxa@northbrook.il.us](mailto:jim.baxa@northbrook.il.us).

Sincerely,

Jack Bielak, P.E.  
Village Engineer

**Enclosure**

Cc: Board of Trustees  
Cara Pavlicek, Village Manager  
Kelly Hamill, Director of Public Works; w/ encl.  
Joe Rizzo, Utilities Superintendent; w/ encl.  
Jim Baxa CFM, Civil Project Engineer; w/ encl.  
Stormwater Management Commission members; w/ encl.  
Environmental Quality Commission members; w/ encl.  
File; w/ encl.

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Cara L. Pavlicek



# 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 Northbrook MS4 #: ILR40400404  
Population (based on 2010 census): 33,400
2. MS4 Mailing Address: 655 Huehl Road City: Northbrook, IL Zip: 60062
3. Primary MS4 Contact Person (Authorized Representative for MS4 Permit)  
Name: Jack Bielak Title: Village Engineer  
Phone: 847-272-4711 Email Address: jack.bielak@northbrook.il.us

### General Information

4. Latitude and Longitude at approximate geographical center of MS4 for which you are requesting authorization to discharge:  
Latitude: 42 7 47 Longitude: 87 49 59  
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 |
|--------------|------------|--------|
| Northbrook   | Northfield | Cook   |
7. Area of land within your MS4 in square miles: 13.31
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?
IL_G-32, IL_G-36 Des Plaines River	<input checked="" type="radio"/> Yes <input type="radio"/> No
IL_HCCC-02 Middle Fork North Branch of the Chicago River	<input checked="" type="radio"/> Yes <input type="radio"/> No
IL_HCCD-01 Skokie River	<input checked="" type="radio"/> Yes <input type="radio"/> No
IL_HCCB-05 West Fork North Branch of the Chicago River	<input checked="" type="radio"/> Yes <input type="radio"/> No

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

Causes: 303(d) causes listed in attached table

Source: 303d doesn't list sources, 305b sources in table

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?

The Village of Northbrook does not have any NPDES Point Source IL00 permits or Wasteload Allocation (WLA) discharging to TMDL impaired water bodies for the following water course TMDL:

- IL\_G-32, IL\_G-36 Des Plaines River
- IL\_HCCC-02 Middle Fork North Branch of the Chicago River

- IL\_HCCD-01 Skokie River
- IL\_HCCB-05 West Fork North Branch of the Chicago River
- The Village of Northbrook participates in the North Branch Chicago River Watershed Workgroup (NBWW) to monitor and resolve priority waterway problems efficiently and cost effectively.
- MS4 Load Allocation (LA) for non-point sources pollution is addressed through the voluntary management measures recommended in the TMDL Reports can be successfully implemented through the leadership of NBWW and local stakeholders within the watershed.

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: Kelly Hamill Title: Director of Public Works

Phone: 847-272-4711 Email: kelly.hamill@northbrook.il.us

Area of Responsibility: Oversee and Responsible for all divisions of Public Works

Name: Nicholas Glenn Title: Communications Manager

Phone: 847-272-5050 Email: nicholas.glenn@northbrook.il.us

Area of Responsibility: Village Newsletter and Social Media posts.

Name: Brian Anderson Title: Operations Manager

Phone: 847-272-4711 Email: brian.anderson@northbrook.il.us

Area of Responsibility: Good housekeeping, Operations & Maintenance plan, and adopt a highway.

Name: Debbie Ford Title: Village Clerk

Phone: 847-272-5050 Email: debbie.ford@northbrook.il.us

Area of Responsibility: Public Notice Requirements

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: 3/1/2003 Frequency of each BMP program: Annually

Qualifying Local Programs

Stormwater Best Management Practices information is included in Village Newsletter and website. Annual Earthday event includes information distributed to attendees.

Measurable Goals (include shared responsibilities)

☒ A.1 Distributed Paper Material

Brief Description of BMP

The Village mails out monthly newsletters to all property owners, included in the newsletter us information on various stormwater BMP's.

Measurable Goals, including frequencies

Over the course of ten monthly newsletters (tow double issues) information on stormwater BMP's will be included as educational purposes.

Milestones

Year 1: Continue with dedicating and providing information within the monthly newsletter and at the annual Earthday event.

Year 2: Continue with dedicating and providing information within the monthly newsletter and at the annual Earthday event.

Year 3: Continue with dedicating and providing information within the monthly newsletter and at the annual Earthday event.

Year 4: Continue with dedicating and providing information within the monthly newsletter and at the annual Earthday event.

Year 5: Continue with dedicating and providing information within the monthly newsletter and at the annual Earthday event.

Additional Info

BMP Number: A.1-1

Village of Northbrook collected informational material related to stormwater management. Additionally, the Village sends out a monthly newsletter to its residents. Information on various stormwater issues will be included in these newsletters. The Public Works Department will be responsible for submitting information in the newsletter. The Communications Manager will be responsible for including information in the newsletter.

BMP Number: A.1-2

The Village of Northbrook currently provides brochures on a number of issues at various locations and the literature will be made available at events, such as Earth Day. Some of these flyers are already meeting requirements of this BMP, such as any flyers related to floodplain issues. New flyers that satisfy public education requirements of other Minimum Control Measures have either been purchased or acquired at sources such as the EPA and others. The Engineering Division will be responsible for brochures on stormwater issues.

☒ A.2 Speaking Engagement

Brief Description of BMP

Informational brochures on stormwater BMP's and fact about stormwater runoff.

Measurable Goals, including frequencies

Provide access to stormwater brochures, informational fliers to be made available to property owners by a variety of means. The literature will be made available at Village Hall, Public Works, and website.

#### Milestones

Year 1: Acquire, display and distribute fliers as needed or requested.

Year 2: Acquire, display and distribute fliers as needed or requested.

Year 3: Acquire, display and distribute fliers as needed or requested.

Year 4: Acquire, display and distribute fliers as needed or requested.

Year 5: Acquire, display and distribute fliers as needed or requested.

#### Additional Info

BMP Number: A.1-2

The Village of Northbrook currently provides brochures on a number of issues at various public building locations. Some of these fliers are already meeting requirements of this BMP, such as any fliers related to floodplain issues. New fliers that satisfy public education requirements of other Minimum Control Measures have either been purchased or acquired at sources such as the EPA and others. The Engineering Division will be responsible for brochures on stormwater issues.

#### ☒ A.3 Public Service Announcement

##### Brief Description of BMP

Informational brochures on stormwater BMP's and facts about storm water runoff.

##### Measurable Goals, including frequencies

Provide stormwater brochures, information fliers to be made available to property owners by a variety of means. The literature will be made available at the annual Earth Day event, Village Hall, Public Works, and Village website.

#### Milestones

Year 1: Acquire, display, and distribute information fliers as requested.

Year 2: Acquire, display, and distribute information fliers as requested.

Year 3: Acquire, display, and distribute information fliers as requested.

Year 4: Acquire, display, and distribute information fliers as requested.

Year 5: Acquire, display, and distribute information fliers as requested.

#### Additional Info

BMP Number: A.3

The Village of Northbrook currently provides a Bi-monthly newsletter, which contains one stormwater and/or water quality related article a minimum of once a year. This newsletter along with the brochures/fliers is already meeting requirements of this BMP, such as any fliers related to floodplain issues. The Engineering Division is responsible for brochures on stormwater issues.

#### ☐ A.4 Community Event

#### ☐ A.5 Classroom Education Material

#### ☒ A.6 Other Public Education

##### Brief Description of BMP

Include information about stormwater issues on the Village's website.

##### Measurable Goals, including frequencies

The Village's website includes a web page for the Public Works department which includes information of interest to

many community members alike, this web-page includes information on the Master Stormwater Management Program, flooding, BMP's, and as appropriate and in conjunction with the other Village activities.

#### Milestones

Year 1: Continue posting stormwater related information on the Village's Public Works Department website.

Year 2: Continue posting stormwater related information on the Village's Public Works Department website.

Year 3: Continue posting stormwater related information on the Village's Public Works Department website.

Year 4: Continue posting stormwater related information on the Village's Public Works Department website.

Year 5: Continue posting stormwater related information on the Village's Public Works Department website.

#### Additional Info

BMP Number: A.6

The Village of Northbrook has an existing web page that includes information of interest to its various community members. The web page will be expanded to include stormwater issues, as appropriate and in conjunction with other Village activities. The Public Works Department will be responsible for updating the webpage.

### B. Public Participation/Involvement

Approximate date first implemented: 3/1/2003

Frequency of each BMP program: Annually

#### Qualifying Local Programs

Participate in the annual Earth day activities.

#### Measurable Goals (include shared responsibilities)

☐ B.2 Educational Volunteer

☐ B.3 Stakeholder Meeting

☒ B.4 Public Hearing

#### Brief Description of BMP

The Village follows all State and Local requirements regarding Public Notice. The Village will comply with all State and Local requirements regarding notice for Public Meetings. All records of NPDES permits are made available to the public upon written request that complies with State and Local regulations.

#### Measurable Goals, including frequencies

Include notice of public meeting in various media sources. Make information available for all through F.O.I.A. request.

#### Milestones

Year 1: Continue meeting all State and Local requirements regarding Public Notice.

Year 2: Continue meeting all State and Local requirements regarding Public Notice.

Year 3: Continue meeting all State and Local requirements regarding Public Notice.

Year 4: Continue meeting all State and Local requirements regarding Public Notice.

Year 5: Continue meeting all State and Local requirements regarding Public Notice.

#### Additional Info



BMP Number: B.4

The Village of Northbrook complies with all State and Local requirements regarding public notices for meetings. All records relating to the NPDES permit will be available to the public upon request, also in compliance with State and Local regulations. Record keeping activities will be implemented as part of this BMP. This includes retaining public notices placed in a newspaper and recording the dates the public notices are published. The Village Clerk's office is responsible for the proper posting of all meetings.

☐ B.5 Volunteer Monitoring

☒ B.6. Program Involvement

**Brief Description of BMP**

Discuss stormwater and water quality issues at environmental quality commission and stormwater management commission meetings.

**Measurable Goals, including frequencies**

Keep commissions updated on NPDES status and programs, which program has been completed, and those that will receiving more frequent inspections as an on-going process.

**Milestones**

Year 1: Consult with Commission members as needed.

Year 2: Consult with Commission members as needed.

Year 3: Consult with Commission members as needed.

Year 4: Consult with Commission members as needed.

Year 5: Consult with Commission members as needed.

**Additional Info**

BMP Number: B.6

The Village of Northbrook has an Environmental Quality Commission and Stormwater Management Commission. These commissions were made aware of the NPDES Phase II Stormwater regulations and will aim to incorporate the stormwater program goals into the Village's plans. Minutes of each meeting will be retained where stormwater-related issues are discussed. The Public Works Department, along with the heads of each Commission, will be responsible for keeping each other updated on issues.

☒ B.7 Other Public Involvement

**Brief Description of BMP**

Continue Adopt-a-highway program, the Village has an active Adopt-a-highway program. This volunteer program works to clean debris from highways right-of-ways before it enters the storm sewer system, there by reducing the amount of pollutants.

**Measurable Goals, including frequencies**

Conduct a Adopt-a-highway clean up program through volunteers groups on a yearly basis.

**Milestones**

Year 1: Conduct a Adopt-a-highway clean up program through volunteers groups on a yearly basis.

Year 2: Conduct a Adopt-a-highway clean up program through volunteers groups on a yearly basis.

Year 3: Conduct a Adopt-a-highway clean up program through volunteers groups on a yearly basis.

Year 4: Conduct a Adopt-a-highway clean up program through volunteers groups on a yearly basis.

Year 5: Conduct a Adopt-a-highway clean up program through volunteers groups on a yearly basis.

Additional Info

BMP Number: B.7

The Village of Northbrook responds to all complaints and concerns received via telephone or email through the Village's Service Request database. Through this program, the Village can track and monitor issues to see if an area within the Village has problematic issues with erosion from construction site runoff or address any concerns before any type of pollutants enter the watercourse.

BMP Number: B.7-2

The Village of Northbrook has an active Adopt-A-Highway program. This volunteer program works to clean debris off highways before it enters the storm sewer system, thereby reducing the amount of pollutants in stormwater runoff. This program will be continued. The Public Works Department is responsible for organizing the Adopt-A-Highway program.

**C. Illicit Discharge Detection and Elimination**

Approximate date first implemented: 3/1/2003

Frequency of each BMP program: Annually

**Qualifying Local Programs**

The Village of Northbrook will be performing some activities related to the Illicit Discharge Detection and Elimination of, as a minimum control.

Measurable Goals (include shared responsibilities)

☒ **C.1 Sewer Map Preparation**

**Brief Description of BMP**

Update existing storm atlas information, the Village maintain its storm sewer atlas in our graphic Information Systems (GIS). This information will be routinely updated to show any changes in the system and to identify the storm sewer outfalls found. The BMP will help the Village more accurately locate outfalls and storm sewer lines.

**Measurable Goals, including frequencies**

Update and make corrections to the GIS storm sewer atlas information each year representative of the system. Develop a more accurate storm sewer map which depicts the outfall locations to the waters of the United States.

**Milestones**

Year 1: Continuing updating storm sewer atlas and outfalls.

Year 2: Continuing updating storm sewer atlas and outfalls.

Year 3: Continuing updating storm sewer atlas and outfalls.

Year 4: Continuing updating storm sewer atlas and outfalls.

Year 5: Continuing updating storm sewer atlas and outfalls.

Additional Info

BMP Number: C.1

The Village is maintain and routinely updated storm sewer atlas and to include all new storm sewer outfalls found. This BMP will help the Village more accurately locate outfalls and storm sewer lines. The Public Works Department, with assistance from the Graphic Information Technology Department (GIS), is responsible for updating the storm sewer atlas.

☒ **C.2 Regulatory Control Program**

**Brief Description of BMP**

Ordinance Regulating Non-stormwater discharges: The existing Municipal Code includes language that disallows non-stormwater discharge into the storm sewer system. This ordinance will be reviews to evaluate its efficacy and to include the appropriate provisions. If changes are deemed necessary, the Ordinance will be reviewed as part of this BMP.



**Measurable Goals, including frequencies**

Review and revise existing Ordinances so non-stormwater discharges into the stormwater system are not permitted. This process will be on-going until the new Ordinance is put into effect.

**Milestones**

Year 1: Continue to implement and enforce Ordinance.

Year 2: Continue to implement and enforce Ordinance.

Year 3: Continue to implement and enforce Ordinance.

Year 4: Continue to implement and enforce Ordinance.

Year 5: Continue to implement and enforce Ordinance.

**Additional Info**

BMP Number: C.2

The Village of Northbrook's Municipal Code includes language that disallows non-stormwater discharge into the storm sewer system. This ordinance will be revised (if required) to improve its effectiveness and to include the appropriate provisions. If changes are necessary, the ordinance will be revised as part of this BMP. Additionally, we keep our ordinance available at the Village Hall and posted on our current website. We recorded the progress of the ordinance review and proposed updates. The Village Engineer, aided by the Director of Public Works, will be responsible (if required) for updating the ordinance and enforcement of the Municipal Code.

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

**Brief Description of BMP**

Participation in the North Branch Chicago River Watershed Work group Program to Identify and detect any Illicit Discharge in the Village Storm sewer system.

**Measurable Goals, including frequencies**

Continue Program to Identify and detect any Illicit Discharge in the Village Storm sewer system.

**Milestones**

Year 1: Perform annual field inspection of major stormwater discharge.

Year 2: Perform annual field inspection of major stormwater discharge.

Year 3: Perform annual field inspection of major stormwater discharge.

Year 4: Perform annual field inspection of major stormwater discharge.

Year 5: Perform annual field inspection of major stormwater discharge.

**Additional Info**

BMP Number: C.3

The Village has policies and procedures to identify, trace, and eliminate illicit discharges, as well as addressing those potential illicit discharges reported by the public. The Village will continue these activities annually to reduce or eliminate illicit discharges to the municipal separate storm sewer system.

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

**Brief Description of BMP**

Continue Policy to Identify and locate potential source of Illicit Discharge in the Village Storm sewer system.

Measurable Goals, including frequencies

Identify and locate potential source of Illicit Discharge in the Village Storm sewer system.

Milestones

Year 1: Perform annual field inspection of major storm sewer discharge and troubleshoot if pollution is identified.

Year 2: Perform annual field inspection of major storm sewer discharge and troubleshoot if pollution is identified.

Year 3: Perform annual field inspection of major storm sewer discharge and troubleshoot if pollution is identified.

Year 4: Perform annual field inspection of major storm sewer discharge and troubleshoot if pollution is identified.

Year 5: Perform annual field inspection of major storm sewer discharge and troubleshoot if pollution is identified.

Additional Info

BMP Number: C.4

The Village utilizes our GIS and Laser fiche databases for mapping the storm sewer system for by public and private utilities to identify and locate any source of pollutants. This use of these databases with the additional of field computer tablets assists the Public Works crews with atlas utility information to pinpoint and trace out sewer lines accurately and more rapidly.

☒ C.5 Illicit Source Removal Procedures

Brief Description of BMP

Dry weather screening: Dry weather screening of storm sewer outfall will be performed by the Village. The Village will prioritize area to be screened. Screening will then be performed to locate any illicit discharges. Areas will also be screened for illegal dumping.

Measurable Goals, including frequencies

Prioritizing of area to be screened for illicit discharges and non-stormwater discharges. Screen per-determined areas as needed and develop plan for addressing illicit and non-stormwaer discharges.

Milestones

Year 1: Continue dry weather screening activities.

Year 2: Continue dry weather screening activities.

Year 3: Continue dry weather screening activities.

Year 4: Continue dry weather screening activities.

Year 5: Continue dry weather screening activities.

Additional Info

BMP Number: C.5

The Village of Northbrook will enforce the municipal code if illicit discharges are located within the storm sewer system through notification to the property owner and issues citations if there is a failure to comply with the Code.

☐ C.6 Program Evaluation and Assessment

☒ C.7 Visual Dry Weather Screening

Brief Description of BMP

Dry weather screening: dry weather screening of storm sewer outfalls will be performed in the Village The Village will prioritize areas to be screened. Screening will then be performed to locate any illicit discharges. Areas will also be

screened for illegal dumping.

**Measurable Goals, including frequencies**

Prioritizing of area to be screened for illicit discharges and non-stormwater discharges. Screen per-determined areas as needed. Develop plan for addressing illicit and non-stormwater discharges.

**Milestones**

Year 1: Continue dry weather screening activities.

Year 2: Continue dry weather screening activities.

Year 3: Continue dry weather screening activities.

Year 4: Continue dry weather screening activities.

Year 5: Continue dry weather screening activities.

**Additional Info**

BMP Number: C.7

The Village observes non-storm water flows; they can be screened and tested to determine whether pollutants are present. Dry weather discharges are typically composed of sewage from leaking pipes or septic systems; wash water from various residential, commercial, and industrial activities and operations, which may also have an illegal cross-connection.

☐ C.8 Pollutant Field Testing

☒ C.9 Public Notification

**Brief Description of BMP**

Education on the dangers of illicit discharge: Many community members may not realize they are contributing to illicit discharges, and others may not realize the effect their discharges have on the environment. Education programs will heighten their awareness and may help to decrease the quantity of illicit discharges in the future. Informational segments on the dangers of illicit discharges will be written and published in the Village newsletter. Village employees will be updated on new illicit discharge procedures through a memo or other similar communication, or training.

**Measurable Goals, including frequencies**

Include information on the dangers of illicit discharges in the Village newsletter, minimum of one reference for commercial and industrial sector, and one for the residential sector.  
Memo to employees on illicit discharge procedures.

**Milestones**

Year 1: Train employees regarding illicit discharge procedures (if required).

Year 2: Train employees regarding illicit discharge procedures (if required).

Year 3: Train employees regarding illicit discharge procedures (if required).

Year 4: Train employees regarding illicit discharge procedures (if required).

Year 5: Train employees regarding illicit discharge procedures (if required).

**Additional Info**

BMP Number: C.9

The Village provides educational material regarding illegal dumping of trash and used materials. Residents are encouraged to report illegal dumpers by calling the Public Works Department. The Village publicizes the Public Works Department phone number for the public to report illicit discharges and illegal dumping on outreach material and on the Village website.

☐ C.10 Other Illicit Discharge Controls

**D. Construction Site Runoff Control**

Approximate date first implemented: 3/1/2003

Frequency of each BMP program: Annually

**Qualifying Local Programs**

The Village of Northbrook has adopted a Municipal Code and Standards and Specifications for Public and Private Improvements that establishes the minimum stormwater management requirements for development. These standards are enforced by the Village to establish procedures for construction site runoff control.

Measurable Goals (include shared responsibilities)

☒ D.1 Regulatory Control Program

**Brief Description of BMP**

Update code to include erosion and sediment control measures: The existing Municipal Code and Standards and Specifications for Public and Private Improvements (Standards) will be reviewed for its inclusion of erosion and sediment control requirements on construction sites. If the code or Standards require updating to meet the Phase II regulations, they will be revised as a part of this BMP.

**Measurable Goals, including frequencies**

Review and revise existing Codes and Standards so they require construction sites over one acres to install and adequately maintain erosion control devices per NPDES Phase II requirements.

**Milestones**

Year 1: Continue to enforce codes.

Year 2: Continue to enforce codes.

Year 3: Continue to enforce codes.

Year 4: Continue to enforce codes.

Year 5: Continue to enforce codes.

**Additional Info**

BMP Number: D.1-1

The existing Standards and Specifications for Public and Private Improvements will be revised (if required) for its inclusion of additional erosion and sediment control requirements on construction sites. If the Standards require updating to meet the Phase II regulations, they will be revised as a part of this BMP.

BMP Number: D.1-2

The existing Municipal Code will be revised (if required) to ensure sections are included for the case when construction sites violate erosion and sedimentation control requirements. The Code will be revised to show that the penalties are explicit so a construction manager will clearly be aware of any penalties the Village or site developer could incur for noncompliance.

☐ D.2 Erosion and Sediment Control BMPs

☐ D.3 Other Waste Control Program

☒ D.4 Site Plan Review Procedures

#### Brief Description of BMP

The Village has a procedure for engineering review of construction site plans. The reviewer will be instructed to check for erosion and sedimentation control measures in addition to any other existing requirements. Provisions for erosion and sedimentation control are currently items included on the checklist provided to designers and developers.

#### Measurable Goals, including frequencies

Continue procedures for site plan review (revise as needed).

#### Milestones

Year 1: Continue procedures for site plan review, maintain a copy of the current plan review procedure and checklist.

Year 2: Continue procedures for site plan review, maintain a copy of the current plan review procedure and checklist.

Year 3: Continue procedures for site plan review, maintain a copy of the current plan review procedure and checklist.

Year 4: Continue procedures for site plan review, maintain a copy of the current plan review procedure and checklist.

Year 5: Continue procedures for site plan review, maintain a copy of the current plan review procedure and checklist.

#### Additional Info

BMP Number: D..4

The Village has a procedure for engineering review of construction site plans. The reviewer will be instructed to check for erosion and sedimentation control measures in addition to any other existing requirements. The Village currently reviews site plans submitted by developers. The reviewer has been required to ensure erosion and sedimentation plans are included. Provisions for erosion and sedimentation control are currently items included on the checklist provided to designers and developers. The Public Works and Development & Planning Services Departments will be responsible for site plan review.

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

##### Brief Description of BMP

Update Procedures for Public to Submit Information: Public input will help encourage the proper use of erosion and sedimentation controls. A procedure will be developed to allow the public to submit information and properly record their concerns. A contact telephone number will be advertised through the Village newsletter and website.

##### Measurable Goals, including frequencies

Advertise telephone number that residents can call when a problem with erosion and/or sediment control is discovered, through the newsletter or other means.

This activity is on-going.

Establish a procedure for follow up and recording of public input.

##### Milestones

Year 1: Continue to publish telephone number for public response and input.

Year 2: Continue to publish telephone number for public response and input.

Year 3: Continue to publish telephone number for public response and input.

Year 4: Continue to publish telephone number for public response and input.

Year 5: Continue to publish telephone number for public response and input.

##### Additional Info

BMP Number: D.5

The Village of Northbrook will continue to advertise contact phone numbers through means such as newsletter and website. Public input will help to encourage the proper use of erosion and sedimentation controls. A procedure will be used to allow the public to submit information and properly record their concerns. The Village will record public complaints and concerns and maintain copies of newsletters, etc. where phone numbers are displayed. The Public Works Department will be responsible for developing public information submittal and record keeping procedures.

☒ D.6 Site Inspection/Enforcement Procedures

**Brief Description of BMP**

Update procedures for Site Inspections and Enforcement: Inspectors will be instructed to check for the existence of erosion and sediment control devices and to check if they are working properly.

**Measurable Goals, including frequencies**

Instruct Inspectors to check for proper installation and maintenance of erosion and sediment control devices. Inspectors will be trained on new procedures atleast once a year.

**Milestones**

Year 1: Continue procedures for site inspection (update as needed)

Year 2: Continue procedures for site inspection (update as needed)

Year 3: Continue procedures for site inspection (update as needed)

Year 4: Continue procedures for site inspection (update as needed)

Year 5: Continue procedures for site inspection (update as needed)

**Additional Info**

BMP Number: D.6

The Public Works Department is currently responsible for the inspection of building construction sites. The inspectors will be required to check for erosion and sedimentation control devices on the development sites. Erosion and sedimentation control is currently required and it is included in the inspection process. All Village departments will help in monitoring job-sites (Village wide) for compliance. If it is determined that improper installation or maintenance is needed, Public Works will be notified to have the deficiencies corrected by the developer/builder.

☒ D.7 Other Construction Site Runoff Controls

**Brief Description of BMP**

The scheduling of final grading inspections, to ensure no exposed soil remains on site.

**Measurable Goals, including frequencies**

Maintain Technical Guidance Materials: Northbrook has the 'Standards and Specifications for Public Improvements'. This manual contains design guidelines for BMP's and considers both stormwater quality and site drainage runoff.

**Milestones**

Year 1: Review 'Standards and Specifications for Public Improvements' (revise and needed).

Year 2: Review 'Standards and Specifications for Public Improvements' (revise and needed).

Year 3: Review 'Standards and Specifications for Public Improvements' (revise and needed).

Year 4: Review 'Standards and Specifications for Public Improvements' (revise and needed).

Year 5: Review 'Standards and Specifications for Public Improvements' (revise and needed).

Additional Info

BMP Number: E.6

The Village Engineering Division requires final engineering "As-built" drawings to confirm the site was constructed according to the approved permitted engineering plans.

**E. Post-Construction Runoff Control**

Approximate date first implemented: 3/1/2003

Frequency of each BMP program: Annually

**Qualifying Local Programs**

The Village of Northbrook has adopted a Municipal Code and Standards and Specifications for Public and Private Improvements that establishes the minimum stormwater management requirements for all development. These standards apply to any new development or redevelopment resulting in over 400 square feet of new impervious area. The specific sections enforce the procedures, activities, and functions that are related to the post-construction runoff control measures.

Measurable Goals (include shared responsibilities)

☒ **E.1 Community Control Strategy**

**Brief Description of BMP**

Village of Northbrook has technical guidance materials, entitled Standards and Specifications for Public and Private Improvements. The technical guidance currently provided is thorough. This manual contains design guidelines for BMPs and considers both stormwater quantity and quality aspects. This manual will be kept updated with industry standards. The Public Works Department is responsible for overseeing any updates to the Standards and Specifications.

**Measurable Goals, including frequencies**

Revise existing Standards, if needed. Continue to enforce our existing Standards. Record progress of Standards and Specification updates.

**Milestones**

Year 1: Review Technical guidelines to ensure current information is being provided.

Year 2: Review Technical guidelines to ensure current information is being provided.

Year 3: Review Technical guidelines to ensure current information is being provided.

Year 4: Review Technical guidelines to ensure current information is being provided.

Year 5: Review Technical guidelines to ensure current information is being provided.

Additional Info

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

Village of Northbrook has technical guidance materials, entitled Standards and Specifications for Public and Private Improvements. This manual contains design guidelines for BMPs and considers both stormwater quantity and quality aspects. This manual will be kept current.

☒ **E.2 Regulatory Control Program**

**Brief Description of BMP**

Revise Code to update requirements for Post-Construction controls on new construction sites. The Village's Code must address post-construction runoff from the development and re-development. On-site stormwater detention is required for the sites. The Village will review the existing Code and Standards and will make revisions as, if necessary.

**Measurable Goals, including frequencies**

Review and revise Code and standards required implementation of post-construction runoff controls. This activity is ongoing until code is revised.

**Milestones**



- Year 1: Continue to implement and enforce Code/Standards (revise if needed).
- Year 2: Continue to implement and enforce Code/Standards (revise if needed).
- Year 3: Continue to implement and enforce Code/Standards (revise if needed).
- Year 4: Continue to implement and enforce Code/Standards (revise if needed).
- Year 5: Continue to implement and enforce Code/Standards (revise if needed).

**Additional Info**

BMP Number: E.2

The Village of Northbrook Code and Standards must address post-construction runoff from new development and redevelopment. The Standards and Specifications clearly outlines detention requirements and release rates. It has requirements for permanent erosion controls. The Village will review the existing Code and Standards and will make revisions (if required).

☒ **E.3 Long Term O & M Procedures**

**Brief Description of BMP**

Long-term operation and maintenance of BMPs is crucial to their continued proper functioning. The Village will review its current operations and maintenance schedule and revise the schedule if it finds certain BMPs or areas are not being properly maintained. It will also require a responsible party to be named in the case of BMPs on private property. Measurable Goals, including frequencies.

**Measurable Goals, including frequencies**

- Review and revise maintenance schedule as needed
- Include provision which requires ownership of private BMPs in applicable Village ordinance

**Milestones**

- Year 1: Review and revise maintenance schedule (as needed).
- Year 2: Review and revise maintenance schedule (as needed).
- Year 3: Review and revise maintenance schedule (as needed).
- Year 4: Review and revise maintenance schedule (as needed).
- Year 5: Review and revise maintenance schedule (as needed).

**Additional Info**

BMP Number: E.3

Long-term operation and maintenance of BMPs is crucial to their continued proper functioning. The Village will review its current operations and maintenance schedule and revise the schedule if it finds certain BMPs or areas are not being properly maintained. It will also require a responsible party to be named in the case of BMPs on private property.

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

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

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

**Brief Description of BMP**

Impervious Surface and Stormwater Fees: Impervious surface fees are fees a developer or property owner must pay based upon the per cent. impervious value of the site. A goal of the fee is to reduce the amount of impervious surface area on a site, which has benefits to stormwater runoff quantity and quality in addition to a fee to fund stormwater

projects as outline in the Master Stormwater Management Program.

**Measurable Goals, including frequencies**

Continue the Impervious Surface and Stormwater Fee requirement, recording the amount collected in fees each year - This is an ongoing activity.

**Milestones**

Year 1: Continue Impervious Surface and stormwater Fee program.

Year 2: Continue Impervious Surface and stormwater Fee program.

Year 3: Continue Impervious Surface and stormwater Fee program.

Year 4: Continue Impervious Surface and stormwater Fee program.

Year 5: Continue Impervious Surface and stormwater Fee program.

**Additional Info**

BMP Number: E.7-1

The Impervious Coverage Fee is required for any proposed development within the Village of Northbrook. Impervious Coverage Fee are fees a developer or property owner must pay based upon a set unit cost per each square foot of impervious coverage gained in result of the development. The objective of the fee is to encourage the minimizing of new impervious surface while at the same time utilizing the collected funds towards improving Village stormwater runoff quantity and quality.

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

**Brief Description of BMP**

Receiving streams, within the Village of Northbrook, are sensitive to increased quantities of stormwater runoff. Stream preservation is required when there is development on a parcel of land adjacent or tributary to an existing drain, reach or tributary of a river or stream.

**Measurable Goals, including frequencies**

Perform inspection downstream of all developments currently under construction to ensure migration of silt or other contaminants are entering the watercourse.

**Milestones**

Year 1: Continue field inspections to ensure migration of substance material is not leaving construction sites.

Year 2: Continue field inspections to ensure migration of substance material is not leaving construction sites.

Year 3: Continue field inspections to ensure migration of substance material is not leaving construction sites.

Year 4: Continue field inspections to ensure migration of substance material is not leaving construction sites.

Year 5: Continue field inspections to ensure migration of substance material is not leaving construction sites.

**Additional Info**

BMP Number: E.7-3

Involve stream preservation activities with construction projects, as required. Record locations of stream preservation activities.

**F. Pollution Prevention/Good Housekeeping**Approximate date first implemented: 3/1/2003Frequency of each BMP program: Annually**Qualifying Local Programs**

Public Works Department Stormwater Pollution Preventative Plan (NBK SWPPP).

**Measurable Goals (include shared responsibilities)**☒ **F.1 Employee Training Program****Brief Description of BMP**

Employee training on NBK SWPPP: The village will conduct employee training sessions to teach municipal employees good housekeeping and pollution prevention techniques. These training sessions will be held as needed during the five-year permit cycle so employees can be educated on all changes that have occurred due to other permit-related activities and how to implement them.

**Measurable Goals, including frequencies**

- Conduct employee training on pollution prevention and good housekeeping techniques.
- Maintain records of employee training sessions.

**Milestones**

Year 1: Conduct annual employee training pollution prevention (as needed).

Year 2: Conduct annual employee training pollution prevention (as needed).

Year 3: Conduct annual employee training pollution prevention (as needed).

Year 4: Conduct annual employee training pollution prevention (as needed).

Year 5: Conduct annual employee training pollution prevention (as needed).

**Additional Info**BMP Number: F.1

The goal is to identify current practices that contribute to stormwater pollution and implement programs and procedures for the Village and activities that curtail the discharge of pollutants to storm sewer systems. The Village will continue in-house training, review of the SWPPP with maintenance staff, and modify procedures as necessary to prevent the discharge of pollutants to the storm sewer systems from Village and rights-of-way.

☒ **F.2 Inspection and Maintenance Program****Brief Description of BMP**

Street cleaning: The Village of Northbrook has an existing program for street cleaning. The Village will continue the street cleaning program and will review the schedule for street cleaning program for effectiveness.

**Measurable Goals, including frequencies**

- Continue existing street cleaning program and record miles of street swept.
- Develop/review schedule for street cleaning to evaluate effectiveness.

**Milestones**

Year 1: Continue street sweeping program.

Year 2: Continue street sweeping program.

Year 3: Continue street sweeping program.

Year 4: Continue street sweeping program.

Year 5: Continue street sweeping program.

Additional Info

BMP Number: F.2

Preventive maintenance on Village of Northbrook vehicles will be done on a routine basis. As outline in our Stormwater Pollution Preventative Plan, this will decrease the number of leaks, instances of improper functioning, etc. that may cause additional pollution in maintenance yards. Routine fleet maintenance is done on Village vehicles. Record keeping is ongoing, all work records are logged and the data is available on request. The Public Works Department is responsible for fleet maintenance.

☒ F.3 Municipal Operations Storm Water Control

Brief Description of BMP

The Village of Northbrook has an existing Master Stormwater Management Plan to identify location where localized flooding occurs. The original Plan document has been expanded to include two addendum with additional project locations.

Measurable Goals, including frequencies

Continue identifying and improving localized flooding within the Village.

Milestones

Year 1: Continue identifying and impoverishing localized flooding.

Year 2: Continue identifying and impoverishing localized flooding.

Year 3: Continue identifying and impoverishing localized flooding.

Year 4: Continue identifying and impoverishing localized flooding.

Year 5: Continue identifying and impoverishing localized flooding.

Additional Info

BMP Number: F.3-1

With the assistance of the Stormwater Management Commission the Village move forward with goals to control localized flooding.

BMP Number:

☒ F.4 Municipal Operations Waste Disposal

Brief Description of BMP

Storm sewer system cleaning: Routine catch basin cleaning decreases the amount of sediment and float ables that enter the storm sewer system. The Village will continue the current program for catch basin and storm sewer cleaning. The program will be reviewed and updated as necessary.

Measurable Goals, including frequencies

- Continue existing catch basin cleaning program
- Continue storm sewer cleaning/jetting program
- Update programs as necessary

Milestones

Year 1: Continue catch basin and storm sewer cleaning programs

Year 2: Continue catch basin and storm sewer cleaning programs

Year 3: Continue catch basin and storm sewer cleaning programs

Year 4: Continue catch basin and storm sewer cleaning programs

Year 5: Continue catch basin and storm sewer cleaning programs

**Additional Info**

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

☐ F.5 Flood Management/Assess Guidelines

☒ F.6 Other Municipal Operations Controls

**Brief Description of BMP**

Use of standardized salting and plowing procedure; proper salt storage reduces the amount of salt in runoff during rain events and assist in maintaining the health of surrounding water-bodies. A salt storage facility is on site at the Public Works facility.

**Measurable Goals, including frequencies**

Continue proper salting and plowing procedures and record loads of salt and calcium chloride used - This is an ongoing activity

**Milestones**

Year 1: Continue with proper salting and plowing procedures

Year 2: Continue with proper salting and plowing procedures

Year 3: Continue with proper salting and plowing procedures

Year 4: Continue with proper salting and plowing procedures

Year 5: Continue with proper salting and plowing procedures

**Additional Info**

BMP Number: F.6

Proper salt storage reduces the amount of salt in runoff during a rain event, and aids in maintaining the health of surrounding water bodies. A salt storage facility will be used, and proper handling of the salt will take place.

**BMPs Currently Implemented and Proposed**

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

**Approximate Pollutant Reduction Resulting from each BMP**

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

**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.	

**Sediment Monitoring**

Is sediment monitoring currently taking place? ☒ Yes ☐ No

If Yes, please describe the sediment sampling program.

See description in "other monitoring" below.

**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 monitorin		

**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 Work group (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.

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)).

<u>Jack BielaK</u>	<u>Village Engineer</u>
Authorized Representative Name	Title
<u>Jack BielaK</u>	<u>3-6-23</u>
Authorized Representative Signature	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.



**2016 Data - Illinois Integrated Water Quality Report and Section 303(d) List**

	<u>303 (d) AUID</u>	<u>303 (d) Segment Name</u>	<u>303 (d) Basin Name</u>	<u>303 (d) Segment Impairment (s)</u>	<u>303 (d) Impairment (s) Cause</u>
IL_G-36		Des Plaines River	Des Plaines River	Fecal Coliform, Mercury, Phosphorus (Total), Polychlorinated biphenyls	Impacts from Hydrostructure Flow Regulation/Modification, Dam or Impoundment, Municipal Point Source Discharges, Atmospheric Deposition - Toxins, Source Unknown, Urban, Runoff/Storm Sewers.
IL_HCCC-02		Middle Fork North Branch Chicago River	Great Lakes/Calumet	Bottom Deposits, Chloride, DDT, Fecal Coliform, Hexachlorobenzene, Oxygen, Dissolved, Phosphorus (Total), Sedimentation/Siltation, Total Suspended Solids (TSS)	Channelization, Loss of Riparian Habitat, Streambank Modifications/destabilization, Urban Runoff/Storm Sewers, Contaminated Sediments
IL_HCCD-01		Skokie River	Great Lakes/Calumet	Chloride, Fecal Coliform, Oxygen, Dissolved, Phosphorus (Total), Total Suspended Solids (TSS)	Wet Weather Discharges (Point Source and Combination of Stormwater, SSO, or CSO)
IL_HCCB-05		West Fork North Branch Chicago River	Great Lakes/Calumet	Aldrin, Chloride, DDT, Endrin, Fecal Coliform, Hexachlorobenzene, Oxygen, Dissolved, Phosphorus (Total), Total Suspended Solids (TSS)	Contaminated Sediments, Channelization, Loss of Riparian Habitat, Site Clearance (Land Development or Redevelopment), Highway/Road Bridge Runoff (Non-construction Related), Municipal Point Source Discharges, Urban Runoff/Storm Sewers, Source Unknown

**2016 Data - Illinois 305(b) Reports**