



# Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Division of Water Pollution Control ANNUAL FACILITY INSPECTION REPORT

### for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

*This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.*

Report Period: From March, 2015 To March, 2016

Permit No. ILR40 0510

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

Name: City of Belvidere Mailing Address 1: 401 Whitney Boulevard  
Mailing Address 2: \_\_\_\_\_ County: Boone  
City: Belvidere State: IL Zip: 61008 Telephone: 815-544-9256  
Contact Person: Brent Anderson Email Address: banderson@ci.belvidere.il.us  
(Person responsible for Annual Report)

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

Belvidere

#### THE FOLLOWING ITEMS MUST BE ADDRESSED.

A. Changes to best management practices (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

- |  |                          |   |                          |
|--|--------------------------|---|--------------------------|
| 1. Public Education and Outreach             | <input type="checkbox"/> | 4. Construction Site Runoff Control       | <input type="checkbox"/> |
| 2. Public Participation/Involvement          | <input type="checkbox"/> | 5. Post-Construction Runoff Control       | <input type="checkbox"/> |
| 3. Illicit Discharge Detection & Elimination | <input type="checkbox"/> | 6. Pollution Prevention/Good Housekeeping | <input type="checkbox"/> |

B. Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

D. Attach a summary of the storm water activities you plan to undertake during the next reporting cycle ( including an implementation schedule.)

E. Attach notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

F. Attach a list of construction projects that your entity has paid for during the reporting period.

**Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))**

  
Owner Signature:

Brent Anderson  
Printed Name:

5/12/16  
Date:

Director of Public Works  
Title:

EMAIL COMPLETED FORM TO: [epa.ms4annualinsp@illinois.gov](mailto:epa.ms4annualinsp@illinois.gov)

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WATER POLLUTION CONTROL  
COMPLIANCE ASSURANCE SECTION #19  
1021 NORTH GRAND AVENUE EAST  
POST OFFICE BOX 19276  
SPRINGFIELD, ILLINOIS 62794-9276

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

# ANNUAL FACILITY INSPECTION REPORT

March 2015 – March 2016

City of Belvidere

## SECTION A

No changes have been made.

## SECTION B

Public Education and Outreach:

(A-1) The City continues to maintain a kiosk of information in the entry of City Hall, including stormwater and pollution prevention.

(A-1) We include a pollution prevention message on our water bills at least quarterly.

(A-3) Storm sewer pollution prevention is promoted on local cable access channel 20.

(A-6) Storm Sewer pollution prevention was discussed at the public meeting for the Columbia Avenue/Aspen Court Reconstruction Project.

Public Participation/Involvement:

(B-1) Two representatives from the City are on the Regional Storm Water Management Committee, which is tasked with developing and maintaining the Boone County Comprehensive Stormwater Management Plan.

(B-1) One representative from the City is on the Northern Regional Groundwater Protection Planning Committee, which is tasked with public education and local government assistance in protecting the ground water resources of the northern region.

(B-1) A link is maintained on the City's website for the Kishwaukee River Ecosystem Partnership (KREP).

(B-6) The Kishwaukee River Clean Up Day was cancelled for 2015 due to high flow conditions.

In addition to the above, the Boone County Conservation District (BCCD) and the Boone County Soil & Water Conservation District (BCSWCD) provides public outreach relative to NPDES storm water requirements. Copies of their summaries of activities are attached.

Illicit Discharge Detection and Elimination:

(C-1) Work continues on developing our City-wide GIS database storm sewer system map. Storm Basin M-1 was completed during this reporting period.

(C-2) The Boone County Health Department continues to inspect, review and permit septic systems within the City watershed.

(C-2) Completed annual outfall inspections.

One illicit discharge was discovered in 2015. Response was coordinated with the IEPA Rockford office. We met with the property owner and the discharge has been discontinued.

Construction Site Runoff Control:

(D-1, D-2, D-3, D-4, D-6) We continue to enforce local ordinances 151.42 and 151.45 regulating stormwater runoff, sediment and erosion control. The Boone County Soil & Water Conservation District continues to review all subdivision plans and conducts on site inspections during construction on behalf of the City for sediment and erosion control.

Post-Construction Runoff Control:

(E-1) The Belvidere/Boone County Planning Department continues to administer the Boone County Comprehensive Plan.

(E-2, E-4) The City of Belvidere and the Boone County Soil and Water Conservation District continue to administer the regulation of storm water runoff facilities and the maximization of the water quality through the use of structural BMP's for all new developments and redevelopments.

(E-5, E-6) Completed maintenance inspections on active detention ponds.

Pollution Prevention/Good Housekeeping:

(F-1) Training of City employees in pollution prevention is ongoing.

(F-2) The City continues to sweep streets on a regular basis, conduct the fall leaf pickup program as well as conducting a branch pickup program twice a year.

(F-4) All fluids from City equipment maintained at the Street Department are collected and recycled.

The Best Management Practices (BMP's) outlined in the City's MS4 NPDES Permit provides the necessary guidance for the City to achieve the statutory goal of reducing the discharge of pollutants to the maximum extent practicable.

Through the activities of this reporting period, the City is taking positive steps in reaching the goal.

SECTION D

**SUMMARY OF STORM WATER ACTIVITIES 2015/2016**

Public Education and Outreach:

Maintain and distribute stormwater and pollution prevention resource material for citizens.

Maintain stormwater and pollution prevention information on City's website.

Include pollution prevention messages on water billings at least quarterly.

Post storm sewer pollution prevention information on public access cable channel 20 and the City's website.

BCCD & BCSWCD to continue their public education and outreach activities.

Public Participation/Involvement:

Attend Regional Storm Water Management Committee functions.

Attend Northern Regional Groundwater Committee functions.

Work release cleanup of specific areas of the City.

BCCD & BCSWCD to continue their public education and outreach activities.

Illicit Discharge Detection & Elimination:

Continue creation of digital map of City storm sewer system.

Continue outfall inspections.

Construction Site Runoff Control:

BCSWCD review and inspection of all development and redevelopment projects in the City.

Post-Construction Runoff Control:

Continue annual inspection of detention ponds that have been completed and accepted by the City.

Pollution Prevention/Good Housekeeping:

Continue employee training in pollution prevention.

Sweep streets on a regular basis.

Complete fall leaf pickup. (November)

Complete branch pickup program (May/October)

SECTION F

Project: Main and Meadow Redevelopment – Brownfields Site

Permit #: ILR10P521

Project: Columbia Avneue/Aspen Court Reconstruction Project

Permit #: ILR10W260

# Summary Report For 2015

Boone County Conservation District (BCCD) Public Outreach Efforts Relative to:

1. Stormwater Management Best Management Practices
2. Erosion and Sediment Control
3. Preservation of Surface and Groundwater Quality
4. Conversion of Acquired Cropland to Native Plant Communities

## Educational Programs:

Program	Program Description	Target Audience	Date(s)	Number of Participants
Groundwater Festival	More than 600 Fourth and Fifth Grade Students, teachers, and chaperones from Boone, Winnebago and McHenry Counties attended the annual Groundwater Festival held at Rock Valley College. This event is organized and sponsored by several local agencies and organizations. The students, teachers, and guests travel to four different learning stations that have an expert demonstrator to discuss issues associated with water quality, groundwater infiltration and stormwater runoff, and much more.	Fourth and fifth grade classes from school districts within the region.	March 9 <sup>th</sup> , 2016	Over 600
Long Prairie Trail Clean-up	BCCD organizes an annual volunteer trail clean-up trash and debris along the trail. The trail crosses the Beaver Creek and Piskasaw Creek and numerous tributaries to them. This clean-up removes debris that might otherwise degrade these high quality streams.	General Public, Bike Clubs, Scout Groups, other Youth Organizations Regional Audience	April 11 <sup>th</sup> , 2015 8 a.m. to 2:30 p.m.	30 people
Flora Nature Preserve Clean-up	Volunteers attend to clean-up debris and litter; assist with the removal of invasive species, and learn about the ecological functions and values of a dolomite prairie. This includes discussions of groundwater recharge and the site's close association with the Troy Bedrock Valley.	General Public	February, 2015	32 participants
Kishwaukee River Clean-up  <b>Cancelled due to High Flow Conditions</b>	The BCCD publicizes, organizes and implements a river clean-up that invites the public to canoe the Kishwaukee River and pick-up trash between the canoe launch at Hickory Bill Island and the Distillery Road Conservation Area. Canoeists collected several truck-loads of debris.	General Public – Regional Audience	July 18 <sup>th</sup> , 2015 9:00 a.m. to 2:00 p.m.	0 participants

Program	Program Description	Target Audience	Date(s)	Number of Participants
Boone County Fair	<p>The BCCD and the Northern Regional Groundwater Planning and Protection Committee rent a large tent and set-up a display. This year's theme was two-fold. Informing people about new conservation and existing conservation lands. Nearly all of these areas are located on the Kishwaukee River Watershed, including the high quality tributaries – Beaver Creek, Coon Creek, and Piskasaw Creek. BCCD properties provide many ecological functions and values including: storage and filtration of floodwaters; enhanced groundwater recharge due to native vegetation; habitat for a diverse range of plant and animal species, including many species listed as species of concern; all sites are located within an Illinois designated Conservation Opportunity Area; and most sites are open to passive public uses.</p> <p>The booth also featured presentations using a streambank erosion model with demonstrations by BCCD professionals.</p> <p>The Northern Regional Groundwater Committee provided information handouts and educational activity booklets for youth. The NRGPPC also held a daily drawing for a rain water collection system.</p>	General Public – Regional Audience	<p>August 11<sup>th</sup> through the 16<sup>th</sup>.</p> <p>Fair Booth was staffed from 9:00 a.m. to 9:00 p.m. each day</p>	Several Thousand visitors stopped at the booth
Tour of BCCD Sites	The BCCD held a tour of Conservation Areas for Rockford University Students. Stops included sites where best management practices have been installed to control streambank erosion; lands were acquired to preserve the Kishwaukee River Riparian corridor – including high quality wetlands; habitat restoration projects that reduce stormwater runoff, improve groundwater infiltration, natural storage and conveyance of floodwaters, and a host of other conservation functions and values.	Rockford University – Learning in Retirement Program	Tuesday, May 5 <sup>th</sup> .	12 Participants
Northern Regional Groundwater Planning and Protection Committee	This committee, established by the Illinois Groundwater Protection Act, serves as a regional resource to educate and promote BMP's that preserve the quality and quantity of our local groundwater resources. BCCD Executive Director serves as the Chairperson of this committee.	<p>General Public – Regional Audience</p> <p>Local Public Officials – Regional Audience</p> <p>Youth and Adult Education – Regional Audience</p>	Monthly, 2015	1000's annually

<b>Program</b>	<b>Program Description</b>	<b>Target Audience</b>	<b>Date(s)</b>	<b>Number of Participants</b>
Village of Capron Nature Walk	This was a one day event with the public attending along with Village of Capron Officials. BCCD staff led the group on an interpretive hike on the Long Prairie Trail. Topics included invasive species control, native plants, identification of birds, discussion of water quality and Stormwater management, and everyone carried a garbage bag to collect debris along the hike.	General Public – Regional Audience  Local Public Officials – Regional Audience	June 20th, 2015  10:00 a.m. to 2:30 p.m.	Approximately 20 attendees
Hooked on Fishing	BCCD in partnership with the Coon Creek Casters, a local conservation group, hosts an event to expose youth and their parents to fishing and appreciation of outdoor experiences. Ethical behaviors associated with natural resources are stressed as part of this experience.	Regional youth and their parents and guardians	June 6 <sup>th</sup> , 2015  Annual Event	148 youth  100 adult parents and guardians  Dozens of mentors
BCCD Summer Camp Programs	BCCD runs three different camps for different age levels throughout the summer. Each week long camp involves a conservation education theme. Every camp includes discussions on waste generation, proper disposal of their waste, and consequences of their actions relative to the natural environment and wildlife.	Camp Redwing – 5 weeks, ages 6 to 11  Camp Ducktails – 5 weeks, ages 4 & 5  Camp Redtail – 2 weeks, ages 12-15	Summer 2015	200 participants  12 staff
Illinois Extension Service: Master Naturalist Course	Course runs seven weeks meeting once each week. A wide range of natural resource topics are covered. BCCD Staff taught several sessions of this course.	Adult Education – general public	Spring & Summer 2016  Annual Activity	~ 20 participants
Green Cities Campaign – IDNR Update to the State Wildlife Action Plan	BCCD staff participated in a series of meetings with the Natural Land Institute, IDNR Technical Staff, the Winnebago County Forest Preserve District Staff, Rockford Park District Staff, and others to review and update the Green Cities Campaign (urban component of the State of Illinois Wildlife Action Plan).	BCCD Staff	Month long meeting series.	~ 20 participants
Belvidere High School Environmental Club	BCCD staff assisted the BHS Environmental Organization (KARE) to conduct a clean-up at Spencer Conservation Area	KARE Club, including Advisor, BCCD staff	Tuesday, May 28 <sup>th</sup>  3:30 – 5:30 pm	~ 20 participants
Boone County Expo A Boone County Chamber of Commerce Event	BCCD Staffs a Booth – provides information about BCCD programs and activities, promotes information about: water quality and Stormwater management; Native plant communities; Invasive Species Management; Camp	General Public	Saturday, January 31 <sup>st</sup> , 2015  All Day Event	Hundreds of participants

Program	Program Description	Target Audience	Date(s)	Number of Participants
	Programs; BCCD Properties; and so much more.			

**Other Activities of the Boone County Conservation District that affect water quality preservation efforts:**

- **Land Acquisitions:**
  - No new land acquisitions this year.
- **Update-Revision of Regional Greenways Plan Completed in 2015** – Boone and Winnebago Counties. Coordination with RMAP and other agencies to continually update this plan. The current effort has evolved into an annual review and revision now that the document is in a digital format. There were some new GIS elements added to expand the utilization of the Greenways plan in local and regional transportation projects and other planning processes. Printed copies are now available.
- **Habitat Restoration:** The BCCD Natural Resource Department has several habitat restoration projects underway.
  - **Piscasaw Fen** – Continued management and removal of invasive species on 30 acres of riparian corridor along Piscasaw Creek and associated wetlands. Convert acquired cropland to native habitat. Approximately 20 additional-acres of cropland has been restored to a very diverse, native plant community (more than 125 species of native plants). Project was completed in February 2015.
  - **Piscasaw Fen** – Wetland restoration work was initiated in December 2015. Approximately six acres of wetlands will be restored in a prior converted agricultural field. Drain tile investigation was completed, monitoring wells are being installed, and woody invasive plants were removed as part of the initial work. New drain tile was installed with a watertable management structure to assist with groundwater management and facilitate existing drainage on adjacent properties.
  - **LIB Conservation Area:** Restoration work involves removal of invasive species in the Kishwaukee bottomlands. Focus on removal of Japanese Honeysuckle, buckthorn, and other invasive, woody vegetation using a tracked skid steer with a Fecon mower attachment. District continues to monitor this restoration site to control re-sprouts of invasive plant species.
  - **Kinnikinnick Creek Conservation Area:** Removal of invasive trees and shrubs, re-establishment of native hardwood forest and ground cover, to expand the buffer to the Kinnikinnick Creek Nature Preserve. Project was just completed in February 2015
  - **Distillery Road Conservation Area:** Also located in the Kishwaukee River Bottomlands across the Kishwaukee River from the LIB Conservation Area. Habitat restoration – Oak/Hickory Savanna and associated short prairie grassland. Several hundred-acre restoration to native plant ecology in a bottomland hardwood, grassland, and wetland complex.
  - **Prescribed burning:** BCCD staff conducted prescribed burning at Piscasaw Fen, Distillery Road Conservation Area, Flora Prairie, Spencer Conservation Area, Kinnikinnick Creek Conservation Area, and other sites to control invasive species and improve native habitat.
  - **Kishwaukee Valley Conservation Area:** The Parks & Conservation Foundation applied for and received a \$32,000 Illinois Clean Energy Community Foundation Stewardship Challenge Grant. Six acres of habitat was enhanced by removing invasive vegetation, removing old fencing materials, cutting down and removing a non-native red pine plantation at the end of its life cycle. Frost seeding more than 125 species of native plants on a four-acre cropland area to expand and restore nesting habitat for the State Endangered Blanding’s Turtle and other species in greatest need of Conservation as detailed in the Illinois Department of Natural Resource State Wildlife Action Plan.



## Summary Report for April 2015 to March 2016

### Boone County Soil & Water Conservation District Public Outreach Efforts Relative to NPDES Phase II Regulatory Requirements.

Program	Program Description	Target Audience	Date(s)	Number of Participants
Groundwater Festival	Each year District staff participates in the Youth Groundwater Festival. More than 400 fourth and fifth grade students, teachers and chaperones from Boone, Winnebago, and McHenry Counties attend. This event includes four different learning stations that have an expert demonstrator to discuss issues associated with water quality, groundwater infiltration and stormwater runoff.	Fourth and fifth grade classes from school districts within the region	March 9, 2016	400
Boone County Fair	The BCCD and Northern Regional Groundwater Planning and Protection Committee rented a tent and set-up displays that addressed specific issues related to water resources. The display included demonstrations with different models such as the groundwater model and information on a variety of topics related to water quality and quantity.	General Public	August 9-14, 2015	Several thousand during the course of the fair
Brochures	The District and Boone County Alliance for Clean Water updated a brochure for distribution at County offices for the general public providing information on BMPs and who to contact regarding water issues.	General Public	April 2015-March 2016	4 sites distributing brochures. Printed as needed.
Brochures	Boone County SWCD updated, edited, and printed brochures on Illicit Discharge, Fertilizers & Pesticides, Road Salt, Landscape and Water Conservation, and Hazardous Materials	General Public	July-October 2015	4 sites distributing brochures. Printed as needed.

<b>Program</b>	<b>Program Description</b>	<b>Target Audience</b>	<b>Date(s)</b>	<b>Number of Participants</b>
Cost-Share for Well Decommissioning Brochures	The District compiled, edited, and printed brochures on well decommissioning and cost-share available to Boone County residents.	General Public	September 2015	2 sites distributing brochures. Printed as needed.
Medication Collection	The District conducted its sixth unused medication collection in Boone County. It was a collaborative effort with Keep Northern Illinois Beautiful, Belvidere Township and other sponsors. A large part of the effort is outreach and education on the problems with improper disposal of unused medications that make their way into our surface and groundwater. Outreach included sending flyers to churches, schools, media outlets, and businesses in Boone County regarding the collection.	General Public	June 13, 2015	Approximately 407 families participated
Medication Collection Brochures	Boone County Soil & Water Conservation District compiled, edited, and printed brochures on pharmaceuticals and groundwater protection.	General Public	May-June 2015	Approximately 50 distributed at the Medication Collection
Envirothon	Envirothon is a National competition for High School students on five subject areas: Aquatics, Forestry, Soils, Wildlife and a current topic. Its mission is "Fostering environmentally conscious decision making young adults". Our Northeastern event is bigger than the State Envirothon and Boone County sends two teams.	High School students and teachers	April 5 <sup>th</sup> & 7 <sup>th</sup> 2015	Approximately 200 – 250 students and teachers annually
Envirothon Presentations	The District visited high schools to provide information on the Envirothon to boost participation from Boone County.	High School students and teachers	November 2015: Belvidere High School  November 2015: Belvidere North High School	Approximately 20 from Belvidere High School and 10 from Belvidere North High School
	Additional visits provided soils education to Envirothon teams.			Approximately 8 students from Belvidere High School

<b>Program</b>	<b>Program Description</b>	<b>Target Audience</b>	<b>Date(s)</b>	<b>Number of Participants</b>
Land Use Council 16 Leopold Education Project (LEP)Scholarship Presentation	The District visited local high schools to provide information on scholarship eligibility, application materials, and awards.	High school students, teachers, counselors	November, 2015	Approximately 30
4-H Award & Recognition	Youth in 4-H complete projects in various topic areas and document completed projects to receive awards. Boone County SWCD sponsors an award for youth in the topics of: Entomology, geology, plant science, and natural resources.	Youth ages 8-18	Oct. 25 <sup>th</sup> , 2015	Approximately 50 youth, parents, 4-H leaders, and presenters. (About 200 total)
Soil Judging	Every year District and NRCS staff visits the High Schools in Boone County and provides information on soil judging for agricultural students and FFA members. Students compete in a regional soil judging contest which DeKalb SWCD hosted in 2015. Topics in the presentation include water quality and erosion and sediment control. Staff aided in DeKalb County event and prepared Boone County High School students.	High school students and teachers	October, 2015	130 students
Erosion and Sediment Control Workshops	Boone County SWCD staff assisted in planning and hosting a workshop for engineers, consultants, site managers and contractors at Rock Valley College. This workshop directly addresses NPDES requirements and BMPs.	Engineers, consultants, site managers, contractors	March 23, 2015	Approximately 120
Nutrient Management Workshop	Boone County SWCD staff assisted in planning and co-hosting a workshop on the Nutrient Loss Reduction Strategy and nutrient management with the Winnebago-Boone Farm Bureau and Winnebago County Soil & Water Conservation District.	General Public	March 9, 2016	Approximately 30
Erosion and Sediment Control Inspections	Boone County SWCD staff conducts inspections for compliance for erosion and sediment control as mandated by the Boone County Subdivision Code. Staff also reviews plans and follows up on the implementation of the plans.	Contractors, site managers, consultants	April 2015 through March 2016	Multiple sites, 20 inspections