



# CITY OF BATAVIA

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**JEFFERY D. SCHIELKE**  
Mayor

**VIA EMAIL**

May 27, 2010

Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Compliance Assurance Section #19  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794-9276

**Subject: National Pollutant Discharge Elimination System, Phase II  
Permit No. ILR400288  
City of Batavia 2009-2010 Annual Inspection Report**

Dear Sir or Madam:

Attached is the Phase II NPDES Annual MS4 Facility Inspection Report for the City of Batavia that covers the period from March 2009 to March 2010.

Please call me at (630) 454-2757 or e-mail me at [arattray@cityofbatavia.net](mailto:arattray@cityofbatavia.net) if you have any questions about this matter.

Sincerely,

Andrea M. Rattray, P.E.  
Civil Engineer

S:\Eng Shared\Batavia Stormwater-Floodplain Management\NPDES Phase II\2009-2010 Annual Report\IEPA 2009-2010 Annual Report Transmittal.doc

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
ANNUAL FACILITY INSPECTION REPORT  
NPDES PERMIT FOR STORM WATER DISCHARGES  
FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)**

Complete each section of this report.

Reporting Period from: March, 2009 To: March, 2010 Permit Number : ILR400288

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

Name: CITY OF BATAVIA Telephone: (630) 454-2750

Mailing Address: 100 NORTH ISLAND AVENUE

City: BATAVIA State: IL Zip: 60510 County: KANE

Contact Person: ANDREA M. RATTRAY, P.E., ENGINEERING DEPT.

(Person responsible for Annual Report)

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

KANE COUNTY DUPAGE COUNTY

**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.

Signature: Andrea M Rattray Date: May 25, 2010

*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))*

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

or Mail to: Illinois Environmental Protection Agency, DWPC  
Compliance Assurance Section #19  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

Information required by this form must be provided to comply with 415 ILCS 5/39 (1996). Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

## **Item B: - Status of Compliance With Permit Conditions 2009-2010**

### **PERMIT CONDITION: BMP No.A4: Public Education and Outreach: Community Event**

The City of Batavia will continue to assist with hosting the Environ-Expo events as they occur. Environ Expo is a free citywide event held at the Batavia City Hall to showcase ideas about conserving energy, water, and resources with the intention of making the community a cleaner, safer, more sustainable place to live.

**Measurable Goal(s), including frequencies:** City to host/assist with one event per year.

**Milestones:** **Year 1:** As stated above.  
**Year 2:** As stated above.  
**Year 3:** As stated above.  
**Year 4:** As stated above.  
**Year 5:** As stated above.

### **COMPLIANCE ACTIVITIES:**

1. With budgets being tightened this event has been put on hold. We have shifted our focus to Classroom Education Material, BMP No. A5 for the remainder of this permit.
2. On April 30, 2009 the City of Batavia hosted The Conservation Foundation to present its Conservation @ Home program to enlighten residents how to incorporate BMPs in their own yards by the use of plants and trees. In addition the speaker, Jim Kleinwatcher, spoke about how to incorporate rain barrels into residential yards as well. In explaining how these plants and barrels work he illustrated how the plants roots are as deep as 15', that the plants take the water in and bring them to the roots therefore recharging the aquifer. In addition, he mentioned that it helps reduce the rate of runoff from each lot. Additional information was available in supplied brochures from The Conservation Foundation.

### **PERMIT CONDITION: BMP No.A5: Public Education and Outreach: Classroom Education Material**

The City of Batavia proposes to develop lesson plans for children/students of multiple age groups to educate them about the stormwater in and around their community. This includes stories at the library for elementary school aged children, interactive worksheets and/or videos for middle school students and pseudo stormwater projects for the high school students. The engineers will have direct contact with the school for creating and implementing these projects.

**Measurable Goal(s), including frequencies:** City to assist in one education project as a minimum per year per age group.

**Milestones:** **Year 1:** As stated above.  
**Year 2:** As stated above.  
**Year 3:** As stated above.  
**Year 4:** As stated above.  
**Year 5:** As stated above.

### **COMPLIANCE ACTIVITIES:**

1. **Elementary School Age Group:** On Tuesday, May 19, 2009 Gary Holm, Director of Public Works spent part of the afternoon with the elementary students in an event called Truck Tales at the Batavia Public Library. During this event he read a story related to Stormwater issues, distributed pamphlets from APWA (American Public Works Association) and brought a snow plow for the children to view. Below is the flyer that was published for this event:

# Celebrate Public Works Week

May 17-23



## TRUCK TALES

Do you have a child that loves trucks?

Join Mr. Ted from the Batavia Public Library and City of Batavia's Public Works Director, Gary Holm, for truck stories. Then climb aboard one of the trucks from Batavia Public Works.

Children ages 5 - 8 are invited to join us on  
Tuesday, May 19 at 4:00 p.m.  
in the Reading Garden (weather permitting)

Please register beginning May 1 with Youth Services, call (630) 879-4775.

- 
- Middle School Age Group:** This year we were unable to get a project coordinated with the Middle School, but did have discussions with their Ecology Club participating in our Storm Stenciling Program.
  - High School Age Group:** At the time of last year's report the City of Batavia was just starting to get this program off the ground. We were working intricately with the Batavia High School science department, mainly their freshman integrated science class to evaluate their newly redesigned campus, which now includes detention facilities, to determine the best location for a rain garden and subsequent BMPs around campus. In this activity they not only evaluated the proposed locations of these BMPs, but chose native plantings for some of these areas with from the City's Engineering Department and local planting groups.

On Thursday, May 14, 2009 a representative from the City of Batavia returned to Batavia High School to listen to the presentations. All presentations contained three BMPs to be used on campus, an explanation of why they would be good for the campus and for that location in addition to explaining what the BMP helped accomplish. This activity helped educate the students and make them aware of how a few minor improvements can help their watershed and the community they live in. Below is an example from one of the presentations:

**Rain Garden-**

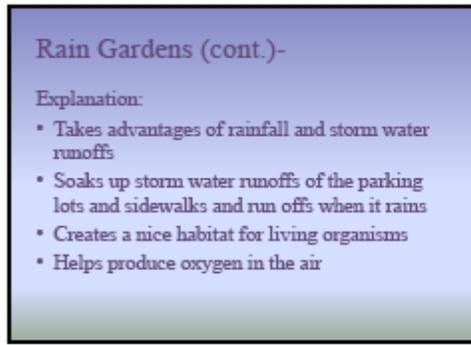
**Description:**

- Small garden in the depression
- Made to improve water qualities
- Provide habitats for wild life
- Attractive landscape

**Rain Gardens (cont.)-**

**Improvements:**

- Put in near the new detention pond.
- Plant in plants (such as Sweet Flag, Red milkweed, water plantain, bottle brush sedge, fox sedge, wild blue flag iris.)
- Don't use fertilizers
- Hand weed till the actual plants grow.



**PERMIT CONDITION: BMP No.A6: Public Education and Outreach: Other Public Education**

The City of Batavia proposes to develop a database of all property owners that abut and include local streams. Best Management Practice information will be mailed and otherwise made available to these property owners to help them in preserving and maintaining the riparian areas along the streams. The City will offer assistance and educational programs toward this end also. The City’s plan to acquire GIS capabilities will improve future implementation of this program.

**Measurable Goal(s), including frequencies:** Complete one property owner database each year with one educational mailing made and/or program held for that group of property owners that same year.

- Milestones:**
- Year 1:** Complete database for property owners along the Mahoney Creek Tributary.
  - Year 2:** Complete database for property owners along Batavia Creek.
  - Year 3:** Complete database for property owners along Mahoney Creek.
  - Year 4:** Complete database for property owners along McKee Road Tributary of Mill Creek.
  - Year 5:** Complete database for property owners along the Mill Creek.

**COMPLIANCE ACTIVITIES:**

1. A list of all those residents along Batavia Creek was created using our information already created in our GIS database and we will continue to create lists of these residents the same way in future mailings. A letter was mailed to all residents along Batavia Creek last year during the 2008-2009 report. The Mahoney Creek database will be comprised and put together for the 2010-2011 report. The letter that was submitted to those residents is included below:

# CITY OF BATAVIA

100 North Island Avenue, Batavia, Illinois 60510  
Phone: (630) 454-2000 Fax: (630) 454-2775

JENNIFER D. SCHIELKE  
Mayor

M. HANNAH VOLK  
City Clerk



WILLIAM R. McGRATH  
City Administrator

RANDALL R. RECKLAUS  
Assistant City Administrator

JOHN S. NOBLE  
City Attorney

January 5, 2009

**Re: BATAVIA CREEK**

Dear Homeowner:

You are getting this letter because you live directly adjacent to Batavia Creek. As you may be aware Batavia Creek was just recognized by the US Board of Geographic Names as a Creek in 2007. In the future the city will be working with the US Army Corps of Engineers to incorporate this creek into the Flood Insurance Rate Map (FIRM). An article about Batavia Creek was previously distributed in the Fall 2006 issue of Currents, which can be located at [http://www.ciweb.com/batavia.net/connex/Articlefiles/1613\\_Currents%20Fall%202006.pdf](http://www.ciweb.com/batavia.net/connex/Articlefiles/1613_Currents%20Fall%202006.pdf)

As a resident along Batavia Creek, the City of Batavia would like to pass on information regarding watersheds and how you can help keep your portion of the creek clean. Enclosed with this letter is a map of the Batavia Creek Watershed. The watershed map shows all the areas that eventually drain to Batavia Creek. The Welcome to your Watershed brochure enclosed describes more about Watersheds and how they work. In addition the brochure shares friendly practices each resident could implement in their own household to improve the natural state of the stream. The last page of the brochure has a list of references for some more information on specific ways to improve the watershed.

As the spring season approaches please keep these ideas in mind to help promote a healthy watershed. The City of Batavia is planning to hold a spring clean-up day (to remove debris that was washed onto the shore after the winter, cut down brush, etc.) for either the Fox River or one of its tributaries. Please watch your Neighbors publications for more information.

Sincerely,

A handwritten signature in black ink that reads "Andrea M. Rattray". The signature is written in a cursive style.

Andrea M. Rattray, P.E.  
Civil Engineer

Cc: Noel A. Basquin, City Engineer  
File - Stormwater - NPDES II

E:\Eng Services\Batavia Stormwater Floodplain Management\NPDES Phase II\2009-2010 Annual Report\Batavia Creek Notices\Homeowner  
Notice to Residents - MASTER.dwg

In addition, a copy of the Watershed map for Batavia Creek, Welcome to your Watershed Information, Fox River Watershed information, Top Ten Things Streamside and Shoreline Property Owners Can Do To Protect Kane County Waters were also included in the mailing. These pieces of information were given to the residents to educate them on the natural area near their home, how to preserve it and show them how many residents are included in their watershed.

The supplemental information included in this mailing are below:

### 1. Know Where You Live

Sure you know what road you live on – what town or township, and even what zip code. But do you know what watershed you live in? Do you know who lives upstream and downstream of you? Check out the enclosed map then go online to [www.co.kane.il.us/kcstorm/watersheds](http://www.co.kane.il.us/kcstorm/watersheds) to find out more about your 'watershed address'.

### 2. Shore up that Shoreline

Over time, you can lose valuable property through shoreline erosion. Stabilize your shoreline by using native vegetation and bioengineering techniques.

A buffer of native vegetation along a streambank holds the soil in place with deep roots and acts as a filter, reducing the speed of water across your yard, and allowing sediments to settle out before they clog our streams and rivers.

Permits are required for grading, installation of stabilization materials and structures like piers and docks.

### 3. Let Nature Be (But Keep it Flowing)

Fallen trees or snags provide excellent habitat and serve other useful purposes. Obstructions should be removed if they begin to cause flooding.

### 4. Don't Dump Debris

A natural, healthy shoreline includes plants, trees, and shrubs that shed leaves and other vegetative debris along the water's edge. But too much of a good thing is not good for the water. Grass clippings, leaf piles, and excess soil piles all pose a threat to healthy water. Keep those landscape debris pollutants out of the waterways by using mulch piles away from the water's edge or bagging for landscape waste pickup.

### 5. Take Care of Your Septic

Septic system leakage and discharge pollutes our streams and lakes with nutrients. Septic tanks should be inspected and cleaned out every 2-3 years. For more information, see [www.kanehealth.com/PDFs/Environmental/SepticSystem.pdf](http://www.kanehealth.com/PDFs/Environmental/SepticSystem.pdf)



### 6. Keep the Objectionables Out

Bring household hazardous wastes to approved collection sites. Hazardous wastes (gasoline, solvents, oil paints, fertilizers, pesticides, expired medications etc.), if dumped in your backyard, down the drain, or down the gutter, will end up in our streams and rivers.

### 7. Show You're Skilled – Get Permits to Build

There are four (4) agencies that oversee construction activities on Kane County creeks and shorelines:

- ❖ Kane County Building Department or Municipal Building Permit Office
- ❖ U.S. Army Corps of Engineers
- ❖ Illinois Department of Natural Resources - Office of Water Resources
- ❖ Illinois Environmental Protection Agency

A permit is required prior to most construction near water bodies. Failure to obtain permits prior to construction could be cause for fines and penalties.

### 8. Go Easy on the Green

Green, lush grass looks great on a ballfield, but the fertilizers and pesticides used to create that 'green carpet' effect can wreak havoc if they migrate into a stream or river. Try native plant gardens instead, or use grass species which don't require chemicals.

### 9. Join Forces

Interested in knowing more about your 'watershed neighborhood'? Find others in your area who are also trying to preserve and protect the local waters - watershed groups are active and the more people involved, the better! See Kane County's watershed information website: [www.co.kane.il.us/kcstorm/watersheds](http://www.co.kane.il.us/kcstorm/watersheds)

### 10. Enjoy Your View!

By following these guidelines, you can reap all the benefits of living with a waterfront property – birds singing, clear, clean water, and the pride of knowing you are doing a world of good for your downstream watershed neighbors!

### Agency Contacts for Permits

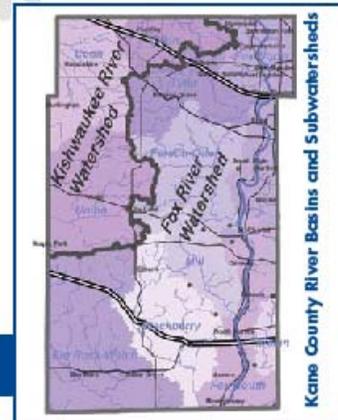
U.S. Army Corps of Engineers, Chicago District  
Regulatory Branch  
111 North Canal St. Suite 600  
Chicago, IL 60606-7206  
312-846-5530 Ext 4026  
[www.usace.army.mil](http://www.usace.army.mil)

IL Department of Natural Resources  
2050 W. Stearns Road  
Bartlett, Illinois 60103  
847-608-3100 [www.dnr.state.il.us/owr](http://www.dnr.state.il.us/owr)

Kane-DuPage Soil & Water Conservation District  
2315 Dean Street, Suite 100  
St. Charles, Illinois 60175  
630.584.7961 Ext. 3 [www.kanedupageswcd.org](http://www.kanedupageswcd.org)

Kane County Development Department  
719 Batavia Avenue  
Geneva, IL 60134  
630-208-3480 [www.co.kane.il.us/development](http://www.co.kane.il.us/development)

Kane County Department of Environmental & Building Management  
719 Batavia Avenue; Building A • Geneva, IL 60134  
630.208.5118 • [www.co.kane.il.us/kcstorm](http://www.co.kane.il.us/kcstorm)



Kane County River Basins and Subwatersheds

## **PERMIT CONDITION: BMP No.B6: Public Participation/Involvement: Program Coordination**

The City of Batavia will continue to work with the Batavia Park District, local environmental groups, and individual citizens groups to organize and participate in clean ups and ecological restoration projects for the reaches of the Fox River and tributary streams that are within the City's jurisdiction.

**Measurable Goal(s), including frequencies:** Host at least two clean-up/restoration events each year.

- Milestones:**
- Year 1:** Continue with at least two stream clean-up/restoration events.
  - Year 2:** Continue with at least two stream clean-up/restoration events.
  - Year 3:** Continue with at least two stream clean-up/restoration events.
  - Year 4:** Continue with at least two stream clean-up/restoration events.
  - Year 5:** Continue with at least two stream clean-up/restoration events.

## **COMPLIANCE ACTIVITIES:**

- May 16, 2009 Fox River Trail Clean up:** City staff worked with BHR and other local volunteers to co-host a spring clean-up workday that focused on the Fox River shoreline and adjacent trails south of downtown Batavia. The City of Batavia provided the dumpster for debris removal and the equipment to transport the collected debris to the dumpster. This clean-up was one of the largest volunteer turn-out events to date. Below is the flyer promoting the clean-up along with a thank you posted on the Batavians For A Healthy River website:

# Fox River Cleanup '09 in Batavia

**Saturday, May 16, 8:30 AM - Noon**

**Meet at the parking lot on Rt. 25 by Clark Island & the Skate Park, Batavia**

Local groups are encouraged to organize and join in this effort.  
Trash bags supplied.

Bring work gloves and dress appropriately.



A few canoes are needed and volunteers experienced in removal of trash from the river. Those with waders should bring them.



**As a special treat - lunch will be provided to volunteers afterwards, prepared by a local culinary chef**

**PLEASE NOTE:** All participants will be asked to sign a waiver form. All children should be accompanied by a parent or adult and must have a signed form. Waivers can be downloaded in advance from our Website:

**bataviansforahealthyriver.org**

For more information or to arrange for your group to volunteer for the Batavia Cleanup, please contact:

Jessi DeMartini at 630- 871-7548  
OR Becky Hoag at 482-9157 Email: info@bataviansforahealthyriver.org



The screenshot shows the website header with the logo "Batavians For A Healthy River" and navigation links: Home, About Us, Calendar, Cleanups & Restoration, Conservation, Dam Issues, Get Involved, Links. The main content area is titled "Cleanups & Restoration Projects" and includes a call to action: "Watch this page for future cleanup and restoration activities". It expresses gratitude to approximately 150 volunteers who participated in the May 16th Fox River Cleanup. A list of participating groups is provided: NICOR, Batavia Robotics, Batavia Youth Baseball 12 Gold Travel Team, Albright Theatre, Batavia High School students, Rotolo Middle School students, Gustafson Cub Scout Den, and a 13-Year Old's Birthday Party group. Three small photographs show volunteers engaged in cleanup activities. A caption below the photos reads: "The Batavia Youth Baseball 12 Gold Travel Team volunteers found a sad example about how others can abuse our valuable resource - The Fox River. They found a dumping ground on the banks of the Fox for all these used oil filters that were leaking into the river - which is used as drinking water for both Elgin and Aurora!" A link for "More photos coming soon" is also present. The footer contains the text: "Batavians For A Healthy River -- The Fox River -- Batavia, Illinois All Rights Reserved, Copyright 2009".

- Fall 2009 Fox River Trail Clean up:** Due to time and budget constraints of volunteers and local organizations the fall clean-up did not occur. We anticipate continuing with another clean-up in the spring.

There have been many cooperative efforts between the City of Batavia and Batavians For A Healthy River over the past five years that have helped get the local citizenry involved in water resource stewardship activities.

## **PERMIT CONDITION: BMP No.B6: Public Participation/Involvement: Program Coordination**

The City of Batavia has started a Storm Sewer Stenciling Program to get the community involved with marking all roadway storm sewers with manholes, catch basins and inlets within the City's limits. The marking states "DO NOT DRAIN DUMPS TO RIVER. This project will be coordinated from the Engineering Department and available to any resident or group in Batavia. The program got its start from the help of the Kane DuPage Soil and Water Conservation District by providing stencils, pamphlets and informational door hangers.

**Measurable Goal(s), including frequencies:** Paint at least two streets each year.

- Milestones:**
- Year 1:** BMP was not in place this year.
  - Year 2:** Continue with at least two street painting events.
  - Year 3:** Continue with at least two street painting events.
  - Year 4:** Continue with at least two street painting events.
  - Year 5:** Continue with at least two street painting events.

## **COMPLIANCE ACTIVITIES:**

- June 4, 2009:** City staff worked with members of the Batavia Environmental Commission to do a trial run of the storm sewer stenciling. Stenciling was completed on Bernadette, Towne and Millview Drive. A total of thirty one (31) inlets were stenciled. While a team was stenciling the street inlets other team members were placing tags on residents doors notifying them of the project and what it means. Below are pictures of the stenciling that was completed:



2. **Various dates in 2009:** An additional six (6) volunteer groups continued what the Environmental Commission started during August, September & October. With the help of all the volunteers Batavia has 436 storm sewers stenciled which cover over 69 streets within the City. In the newer parts of town the storm drain lid have already been cast with the Dump No Waste.

**PERMIT CONDITION: BMP No.C1: Illicit Discharge Detection and Elimination: Storm Sewer Map Preparation**

The City of Batavia will complete accurate, up-to-date geographic information system mapping of the City's stormwater management system, including storm sewers, detention facilities, and outfalls to natural streams, rivers and wetlands.

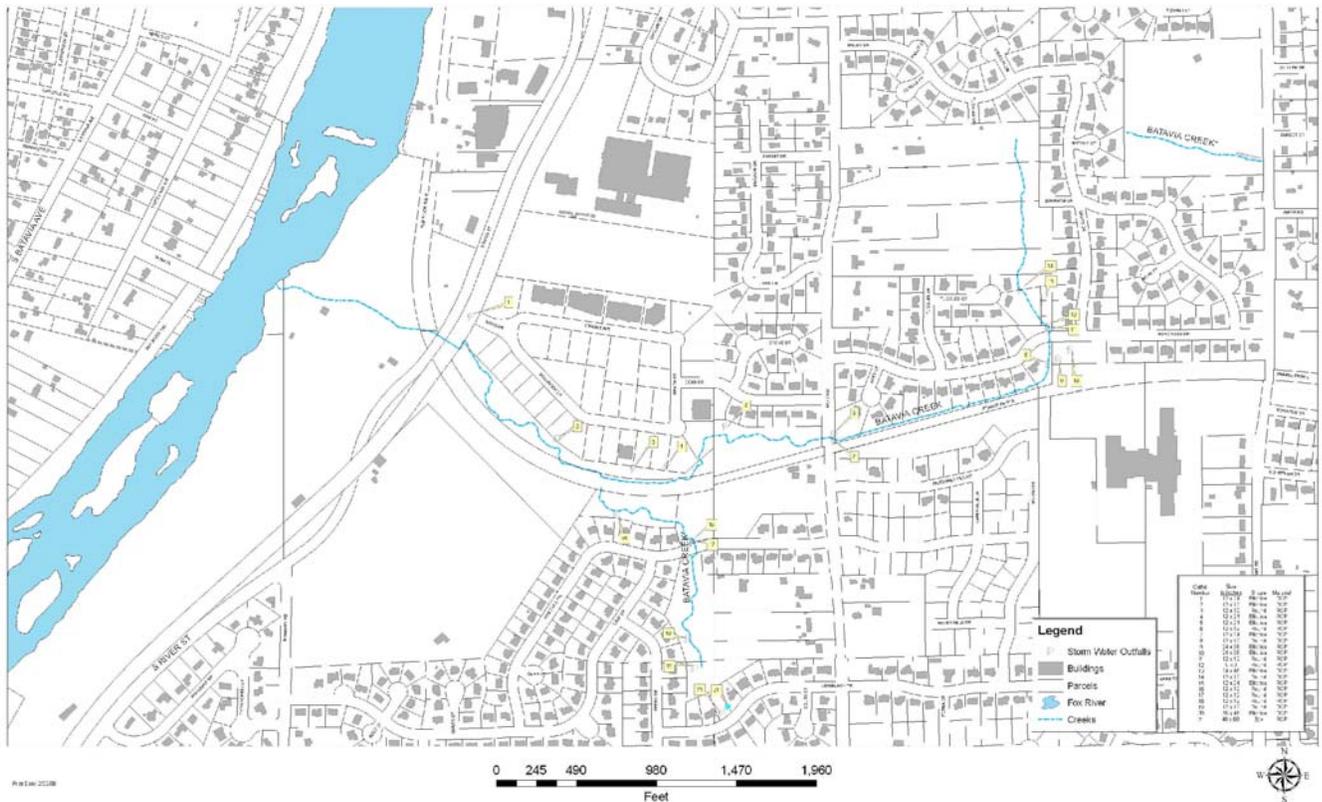
**Measurable Goal(s), including frequencies:** Complete one study per year in accordance with funding availability. Start implementing study recommendations in the first fiscal year after the study is completed.

- Milestones:**
- Year 1:** Complete GPS data collection of the City's existing storm sewer network (including outfalls) and integrate the database with the City's geographic information system.
  - Year 2:** Add/upgrade storm sewer GPS information as new developments are added and modifications are made to the existing stormwater infrastructure.
  - Year 3:** Same as above.
  - Year 4:** Same as above.
  - Year 5:** Same as above.

**COMPLIANCE ACTIVITIES:**

1. **Citywide Stormwater Management System Mapping** : The City has continued to update the database of all projects once completion has occurred utilizing as-built construction plans. This has helped with the collection of information for the entire system. The map has the locations of all the outfalls in the city including structures discharging into the Fox River and numerous creeks and tributaries. Below is a sample of the map put together for the Batavia Creek Storm Sewer Outfalls:

## Batavia Creek Storm Sewer Outfalls



**PERMIT CONDITION: BMP No.D2: Construction Site Runoff Control: Erosion and Sediment Control BMP's**

Temporary and permanent erosion and sediment control BMP's will continue to be required for all development and redevelopment projects in accordance with the Kane County Stormwater Management Ordinance.

**Measurable Goal(s), including frequencies:** BMP's will be implemented as development projects occur.

- Milestones:**
- Year 1:** As stated above.
  - Year 2:** As stated above.
  - Year 3:** As stated above.
  - Year 4:** As stated above.
  - Year 5:** As stated above.

**COMPLIANCE ACTIVITIES:**

1. **Erosion and Sediment Control BMPs:** As stated in the objective of this section, all projects completed in Batavia where earth disturbance occurs, following the Kane County Stormwater Management Ordinance, have temporary and permanent erosion and sediment control Best Management Practices in place. This has been monitored by both the City of Batavia's Engineering Staff along with Kane-DuPage Soil and Water Conservation District, who is on retainer to monitor the site conditions during construction. This past year the City of Batavia has updated our standard detail sheet for erosion control measures to keep up to date with current practices.

**PERMIT CONDITION: BMP No.D4: Construction Site Runoff Control: Site Plan Review Procedures**

The City of Batavia will continue its agreement with the Kane-DuPage Soil and Water Conservation District (KDSWCD) to review engineering plans submitted for new development or redevelopment projects for conformance with current soil erosion and sediment control (SESC) standards.

**Measurable Goal(s), including frequencies:** KDSWCD reviews will take place as building permit application submittals are made to the city.

- Milestones:** **Year 1:** As stated above.  
**Year 2:** As stated above.  
**Year 3:** As stated above.  
**Year 4:** As stated above.  
**Year 5:** As stated above.

**COMPLIANCE ACTIVITIES:**

1. All new development and redevelopment projects have to illustrate compliance with the latest soil erosion and sediment control standards by submitting engineering plans to KDSWCD and provide the City of Batavia with an approval letter. A sample approval letter is below:

**Kane – DuPage Soil & Water Conservation District**



April 17, 2009

Amy Sellner  
Engineering Enterprises, Inc.  
52 Wheeler Road  
Sugar Grove, IL 60554

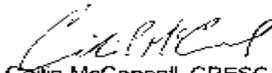
KDSWCD File: 09e012  
Approved Plan Set Dated: 04/17/09

Dear Ms. Sellner:

I received your revised soil erosion and sedimentation control plan submittal for Ekstrom Development project located in Batavia, Illinois. Thank you for incorporating our comments into the plan, it will improve the quality of protection for the natural resources, both on and off site. This letter and a set of stamped plans located at the construction office on site, will serve to certify that the erosion and sediment control plans meet Technical Standards.

We will visit the site several times during the course of construction to assess compliance with the specifications and will be glad to address specific issues that may arise during the course of construction.

Sincerely,

  
Colin McConnell, CPESC  
Resource Analyst  
Kane-DuPage Soil and Water Conservation District

ECC: Noel Basquin, City of Batavia

APR 22 2009

APR 22 2009

2315 Dean Street, Suite 100

St. Charles, Illinois 60175 (630) 584-7961x3  
www.kanedupageswcd.org

Fax: (630) 584-9534

All reports and services of the Kane-DuPage SWCD are official and shall remain in my hands, without regard to case, order, receipt or other number, set, mark, stamp or notation.

**PERMIT CONDITION: BMP No.D6: Construction Site Runoff Control: Site Inspection/Enforcement Procedures**

The City of Batavia will continue its agreement with the Kane-DuPage Soil and Water Conservation District (KDSWCD) to conduct periodic construction site inspections for proper SESC installation and effectiveness. City engineering staff also will continue to perform both scheduled and ad-hoc construction site inspections to ensure that SESC measures are in place and working.

**Measurable Goal(s), including frequencies:** Both KDSWCD and City of Batavia staff inspections and routine reviews will take place as building permits are issued.

- Milestones:** **Year 1:** As stated above.  
**Year 2:** As stated above.  
**Year 3:** As stated above.  
**Year 4:** As stated above.  
**Year 5:** As stated above.

**COMPLIANCE ACTIVITIES:**

1. The City of Batavia routinely inspects all projects under construction. In addition, the City gets calls notifying the department when sites are delinquent in complying with SESC measures. When there are delinquencies the City notifies the property owner(s) immediately via written notification, as shown below and they have 48 hours to fix the problem otherwise they will start incurring violation fees.



**CITY OF BATAVIA**  
**Engineering Department**  
100 North Island Avenue  
Batavia, Illinois 60510  
Phone: (630) 454-2000  
Fax: (630) 454-2775

**STOP WORK TWO DAY NOTICE FAX**

To:	Fax#:
From:	Date:

This notice is to inform you that the following location has failed a random site inspection for erosion control:

Address: (insert address here)  
Lot#: (insert lot# here)  
Development Name: (insert developer name here)  
Developer: (insert developer here)  
Builder: (insert builder here)

Please resolve this deficiency or a STOP WORK ORDER will be issued on (insert day, month date, year)

Under Chapter 11 of the City of Batavia Subdivision Control Ordinance, failure to comply will result in a Notice to Appear and a fine of up to \$750.00 per day will be imposed.

Signature:  
Inspected By: (insert name here)  
Inspection Date: (insert date here)

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**PERMIT CONDITION: BMP No.E4: Post-Construction Runoff Control: Pre-Construction Review of BMP Designs**

The City of Batavia will continue to complete in-house reviews of development and re-development engineering plans for conformance with current BMP design standards. Currently, the City has three licensed professional Civil Engineers on staff.

**Measurable Goal(s), including frequencies:** In-house final engineering plan reviews will take place as building permit application submittals are made to the City.

**Milestones:** **Year 1:** As stated above.  
**Year 2:** As stated above.  
**Year 3:** As stated above.  
**Year 4:** As stated above.  
**Year 5:** As stated above.

**COMPLIANCE ACTIVITIES:**

1. The City of Batavia's Engineering Department reviews each plan set for conformance with the current BMP standards and will recommend additional measures where seen fit.

**PERMIT CONDITION: BMP No.E5: Post-Construction Runoff Control: Site Inspections During Construction**

The City of Batavia will continue to complete in-house site work inspections of development and re-development projects. Currently, the City has one full-time Engineering Inspector on staff.

**Measurable Goal(s), including frequencies:** City of Batavia scheduled staff inspections and routine reviews will take place as building permits are issued.

**Milestones:** **Year 1:** As stated above.  
**Year 2:** As stated above.  
**Year 3:** As stated above.  
**Year 4:** As stated above.  
**Year 5:** As stated above.

**COMPLIANCE ACTIVITIES:**

1. The City of Batavia's full-time Engineering Inspector is scheduled to hold inspections when the utilities are installed, after the curb, sidewalk and approach are installed, and after final grading while making sure that soil erosion control measures are in place during all inspections.

**PERMIT CONDITION: BMP No.E6: Post-Construction Runoff Control: Post-Construction Inspections**

The City of Batavia will continue to monitor the constructed stormwater management systems of both private and public projects. A one-year maintenance letter of credit is required for all public and private projects to ensure that the performance of the constructed project meets the original design intent and applicable City codes. City of Batavia Public Works, Engineering, and Code Compliance staff are all involved in the post-construction monitoring process.

**Measurable Goal(s), including frequencies:** City of Batavia Engineering and Public Works staff participate in a final walk-through inspection and punch-list preparation for each private and public construction project. These inspections occur as projects are completed and requests for final acceptance are made. Staff then makes a recommendation for acceptance to the City Council, which is the City's final approving authority. The Code Compliance Department is involved in post-construction matters to the extent that questions / comments / complaints about City code applicability arise.

**Milestones:** **Year 1:** As stated above.  
**Year 2:** As stated above.  
**Year 3:** As stated above.  
**Year 4:** As stated above.  
**Year 5:** As stated above.

**COMPLIANCE ACTIVITIES:**

1. City of Batavia staff has performed post-construction final walk-through inspections as projects are completed. These inspections are to verify that the site has been constructed to the standards and design as approved in the Final Engineering Plans.

**PERMIT CONDITION: BMP No.F5: Pollution Prevention/Good Housekeeping: Flood Management/ Assess Guidelines**

The City of Batavia will continue to complete updated hydrologic and hydraulic studies for all perennial and intermittent streams within the municipal boundaries using current data and modeling methodology. In addition to accurately quantifying floodplains and flood risks, these studies will help identify and quantify riparian areas that are eligible for protection as special management areas under the Kane County Stormwater Management Ordinance.

**Measurable Goal(s), including frequencies:** Complete one study per year in accordance with funding availability. Start implementing study recommendations in the first fiscal year after the study is completed.

**Milestones:** **Year 1:** As stated above.  
**Year 2:** As stated above.  
**Year 3:** As stated above.  
**Year 4:** As stated above.  
**Year 5:** As stated above.

**COMPLIANCE ACTIVITIES:**

1. **Fox River LOMR:** The City was granted the LOMR from FEMA with an effective date of September 1, 2009. The approved LOMR indicates a decrease in Zone AE, Floodway and BFEs for the Fox River and a decrease in Zone AE for Manhone Creek for the stretch of this permit.
2. **Braeburn Marsh Study:** The City hired a consultant to analyze the Braeburn Marsh area and adjoining subdivisions over this last year. The study was completed and recommendations were made based on logical engineering practices and budgetary concerns. This fall the west half of Braeburn Marsh was burned, but because of the wet fall and wind direction the east half of the Braeburn Marsh were unable to have their controlled burn completed; it will be done in the spring of 2010. In addition engineering plans are being completed to remove built-up sediment that has settled in the bottom of the Marsh over the last 20 years and create a positive outfall in a channel directly discharging into the marsh from upstream basins. Both of these improvements will help regain positive outflow and conveyance of stormwater in addition to providing the original storage volumes that were permitted when the subdivision was constructed. We anticipate construction/dredging during the summer of 2010 with an estimated completion date by the fall.
3. **Braeburn Marsh Drainage Improvements:** The City has decided to apply for a 319 Grant in order to receive additional funds to improve this drainage area. The City will be working with the Kane County Forest Preserve and start the application process this permit year in order to submit by the August 1, 2010 deadline. If selected for the grant we will be working on improving this drainage area by implementing BMPs, providing additional storage areas by dredging, stabilizing creek banks, upsizing and adding storm sewer in areas that are prone to flooding. These improvements will be expanded upon as the application is being filed out.

**PERMIT CONDITION: BMP No.F6: Pollution Prevention/Good Housekeeping: Other Municipal Operations Controls**

The City of Batavia proposes to retrofit existing storm sewer and stormwater detention facilities with BMP's as the need for significant repair of these facilities and/or replacements of facility components arise. BMP's will be implemented outside of the need for such maintenance, as funding will allow. The City will complete a study that will develop a comprehensive retrofitting plan and identify locations and priorities to maximize the water quality benefits as early in the program as possible.

**Measurable Goal(s), including frequencies:** Measurement will be in numbers of BMP retrofitted storm sewer structures and detention facilities.

- Milestones:** **Year 1:** Identify several City owned detention facilities that are good candidates for retrofit projects. Solicit proposals from qualified consultants and/or contractors to develop retrofitting plans for each selected facility.
- Year 2:** Budget engineering and construction funding for one detention retrofit project. Complete necessary coordination with adjoining property owners.
- Year 3:** Continue above process with another detention facility.
- Year 4:** Continue above process with another detention facility.
- Year 5:** Continue above process with another detention facility.

**COMPLIANCE ACTIVITIES:**

1. **Retrofit locations:** The City has identified six locations throughout the City where retrofitted basins would benefit the system. The basins and status updates are as follows:
  - a. The first basin is located at the East Side Fire Station on East Wilson Street. This basin was converted when the fire station was originally remodeled two years ago, but was not executed very well and will be revised. This project was supposed to be completed by an Eagle Scout, but he backed out, therefore the City has hired a consultant. The City has been working with the consultant this past permit year to put in some new plantings and implement a burning to remove some invasive species.
  - b. The second location is the detention pond at the northeast corner of Edwards and Raddant Road.
  - c. The third location is the detention pond on the south side of Wind Energy Pass just east of Raddant Road.
  - d. The fourth location is the pond located at the south end of the Public Works facility.
  - e. The fifth location is a small portion of the pond between Bradford and North Avenue.
  - f. The last location is the detention pond at the northeast corner of Deerpath and Main Street.The last five have not been solicited for consultants at this time due to budget restraints. The City of Batavia is looking at doing some of these retrofit projects in house when funds are available.

**Item C: - List of Information Collected & Analyzed for 2009-2010**

The City did not collect or analyze any monitoring data during this reporting period.

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## **Item D: - Proposed March 2010 – March 2011 Permit Activities**

### **PERMIT CONDITION: BMP No.A5: Public Education and Outreach: Classroom Education Material**

The City of Batavia proposes to develop lesson plans for children/students of multiple age groups to educate them about the stormwater in and around their community. This includes stories at the library for elementary school aged children, interactive worksheets and/or videos for middle school students and pseudo stormwater projects for the high school students. The engineers will have direct contact with the school for creating and implementing these projects.

**Measurable Goal(s), including frequencies:** City to assist in one education project as a minimum per year per age group.

**Milestones:** **Year 1:** As stated above.  
**Year 2:** As stated above.  
**Year 3:** As stated above.  
**Year 4:** As stated above.  
**Year 5:** As stated above.

### **PROPOSED ACTIVITIES:**

1. **Elementary School Aged Children:** On Tuesday, May 4, 2010 Gary Holm, Director of Public Works will spend part of the afternoon with the elementary students in an event called Truck Tales at the Batavia Public Library. During this event he will read a story related to Stormwater issues, distribute pamphlets from APWA (American Public Works Association) and bring a snow plow for the children to view.
2. **Middle School Age Group:** We plan to work with their Ecology Club by distributing interactive worksheets, discussing civil engineering or participating in our Storm Stenciling Program.
3. **High School Age Group:** We are working with the teachers to determine what needs will best satisfy and correlate with their course work at this time as it relates to stormwater management.

### **PERMIT CONDITION: BMP No.A6: Public Education and Outreach: Other Public Education**

The City of Batavia proposes to develop a database of all property owners that abut and include local streams. Best Management Practice information will be mailed and otherwise made available to these property owners to help them in preserving and maintaining the riparian areas along the streams. The City will offer assistance and educational programs toward this end also. The City's plan to acquire GIS capabilities will improve future implementation of this program.

**Measurable Goal(s), including frequencies:** Complete one property owner database each year with one educational mailing made and/or program held for that group of property owners that same year.

**Milestones:** **Year 1:** Complete database for property owners along the Mahoney Creek Tributary.  
**Year 2:** Complete database for property owners along Batavia Creek.  
**Year 3:** Complete database for property owners along Mahoney Creek.  
**Year 4:** Complete database for property owners along McKee Road Tributary of Mill Creek.  
**Year 5:** Complete database for property owners along the Mill Creek.

### **PROPOSED ACTIVITIES:**

This year we will complete a database for the property owners along Mahoney Creek and distribute a copy of the Watershed map for Mahoney Creek, Welcome to your Watershed Information, Fox River Watershed information, Top Ten Things Streamside and Shoreline Property Owners Can Do To Protect Kane County Waters in a mailing.

**PERMIT CONDITION: BMP No. B6: Public Participation/Involvement: Program Coordination**

The City of Batavia will continue to work with the Batavia Park District, local environmental groups, and individual citizens groups to organize and participate in clean ups and ecological restoration projects for the reaches of the Fox River and tributary streams that are within the City's jurisdiction.

**Measurable Goal(s), including frequencies:** Host at least two clean-up/restoration events each year.

- Milestones:**
- Year 1:** Continue with at least two stream clean-up/restoration events.
  - Year 2:** Continue with at least two stream clean-up/restoration events.
  - Year 3:** Continue with at least two stream clean-up/restoration events.
  - Year 4:** Continue with at least two stream clean-up/restoration events.
  - Year 5:** Continue with at least two stream clean-up/restoration events.

**PROPOSED ACTIVITIES:**

1. **May 15, 2010 Fox River Trail Cleanup:** Scheduled clean-up of the trails and banks of the Fox River immediately south of downtown Batavia. City staff will participate in this event sponsored by the local citizens environmental group, Batavians for a Healthy River (BHR). The City will supply vehicles for debris collection and dumpster for disposal.
2. **Additional Stream Cleanup Events:** Additional clean-ups of the Fox River and tributary streams are possible, but we are not aware of any scheduled dates at this time.

**PERMIT CONDITION: BMP No. B6: Public Participation/Involvement: Program Coordination**

The City of Batavia has started a Storm Sewer Stenciling Program to get the community involved with marking all roadway storm sewers with manholes, catch basins and inlets within the City's limits. The marking states "DO NOT DRAIN DUMPS TO RIVER. This project will be coordinated from the Engineering Department and available to any resident or group in Batavia. The program got its start from the help of the Kane DuPage Soil and Water Conservation District by providing stencils, pamphlets and informational door hangers.

**Measurable Goal(s), including frequencies:** Paint at least two streets each year.

- Milestones:**
- Year 1:** BMP was not in place this year.
  - Year 2:** Continue with at least two street painting events.
  - Year 3:** Continue with at least two street painting events.
  - Year 4:** Continue with at least two street painting events.
  - Year 5:** Continue with at least two street painting events.

**PROPOSED ACTIVITIES:**

Last year was our first year running this program and we had gotten good feedback and interest from the community. As of right now no groups are scheduled to stencil, but we anticipate at least another 5-10 groups signing up throughout the stenciling season, weather permitting.

**PERMIT CONDITION: BMP No. F5: Pollution Prevention/Good Housekeeping: Flood Management/ Assess Guidelines**

The City of Batavia will continue to complete updated hydrologic and hydraulic studies for all perennial and intermittent streams within the municipal boundaries using current data and modeling methodology. In addition to accurately quantifying floodplains and flood risks, these studies will help identify and quantify riparian areas that are eligible for protection as special management areas under the Kane County Stormwater Management Ordinance.

**Measurable Goal(s), including frequencies:** Complete one study per year in accordance with funding availability. Start implementing study recommendations in the first fiscal year after the study is completed.

**Milestones: Year 1:** As stated above.

**Year 2:** As stated above.

**Year 3:** As stated above.

**Year 4:** As stated above.

**Year 5:** As stated above.

**PROPOSED ACTIVITIES:**

1. **Braeburn Marsh Study:** The City hired a consultant to analyze the Braeburn Marsh area and adjoining subdivisions over this last year. The study was completed and recommendations were made based on logical engineering practices and budgetary concerns. This fall the west half of Braeburn Marsh was burned, but because of the wet fall and wind direction the east half of the Braeburn Marsh were unable to have their controlled burn completed; it will be done in the spring of 2010. In addition engineering plans are being completed to remove built-up sediment that has settled in the bottom of the Marsh over the last 20 years and create a positive outfall in a channel directly discharging into the marsh from upstream basins. Both of these improvements will help regain positive outflow and conveyance of stormwater in addition to providing the original storage volumes that were permitted when the subdivision was constructed. We anticipate construction/dredging during the summer of 2010 with an estimated completion date by the fall.
2. **Braeburn Marsh Drainage Improvements:** The City has decided to apply for a 319 Grant in order to receive additional funds to improve this drainage area. The City will be working with the Kane County Forest Preserve and start the application process this permit year in order to submit by the August 1, 2010 deadline. If selected for the grant we will be working on improving this drainage area by implementing BMPs, providing additional storage areas by dredging, stabilizing creek banks, upsizing and adding storm sewer in areas that are prone to flooding. These improvements will be expanded upon as the application is being filed out.

**PERMIT CONDITION: BMP No. F6: Pollution Prevention/Good Housekeeping: Flood Management/ Other Municipal Operations Controls**

The City of Batavia proposes to retrofit existing storm sewer and stormwater detention facilities with BMP's as the need for significant repair of these facilities and/or replacements of facility components arise. BMP's will be implemented outside of the need for such maintenance, as funding will allow. The City will complete a study that will develop a comprehensive retrofitting plan and identify locations and priorities to maximize the water quality benefits as early in the program as possible.

**Measurable Goal(s), including frequencies:** Measurement will be in numbers of BMP retrofitted storm sewer structures and detention facilities.

- Milestones: Year 1:** Identify several City owned detention facilities that are good candidates for retrofit projects. Solicit proposals from qualified consultants and/or contractors to develop retrofitting plans for each selected facility.
- Year 2:** Budget engineering and construction funding for one detention retrofit project. Complete necessary coordination with adjoining property owners.
- Year 3:** Continue above process with another detention facility.
- Year 4:** Continue above process with another detention facility.
- Year 5:** Continue above process with another detention facility.

**PROPOSED ACTIVITIES:**

**Windmill Lakes , Unit 2 Detention Basin Retrofit Project:** The City of Batavia partnered with the Fox Valley Land Foundation (FVLF) in early 2005 to retrofit an existing stormwater detention basin on the west side of the city to incorporate water quality best management practices. They are now known as The Conservation

Foundation (CF). CF received funding from the U.S. Army Corps of Engineering for construction of the retrofit project. This project has been ongoing since inception in 2005, and now we have added additional land acquisitions to the picture. The paperwork associated with those acquisitions have taken some time to compile, but the City anticipates construction to begin in the summer of 2010 with a completion date by the fall of 2010.

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## **Item E: - Permit Obligations Provided by Other Government Entity**

### **NPDES Phase II – 2009-2010 Kane County Activities**

Kane County Department of Environmental and Building Management

#### **General:**

1. The following activities were conducted county-wide by Kane County and are intended to satisfy NPDES Phase II permit requirements for these two control measures for local governments within Kane County. This information is excerpted from the Kane County Department of Environmental and Building Management 2009 NOI to the NPDES Phase II Report.

#### **CM 1: Public Education and Outreach:**

##### **1. Brochure Development and Distribution:**

Two brochures were produced, printed and distributed, “Top Ten Things Streamside Property Owners Can Do” and “How to be a Clean Water Champion”, while “Kane County’s Guide to Living on a Waterway” was developed with members of the Friends of the Fox River, the Fox River Ecosystem Partnership, and the Kane-DuPage Soil & Water Conservation District. These brochures are readily available at the City of Batavia’s City hall as well as on Kane County’s Stormwater Management website: <http://www.co.kane.il.us/kcstorm/education/public/brochures.asp>

##### **2. Speaker’s Bureau:**

Kane County staff made presentations to local groups on an as-needed basis. County staff held 3 MS4 Roundtables with information relevant to the NPDES Phase II programs in Kane County.

##### **3. Other Public Service Announcement Activities:**

a. School Education: The County has, in the past, contracted with the Kane-DuPage Soil & Water Conservation District (KDSWCD) to conduct related K-12 educational activities in Kane County schools. During 2008, the county has developed a website containing resources for stormwater education. The programs are specific to Kane County stormwater, water quality and general water and watershed educational topics. The website is located at: <http://www.co.kane.il.us/kcstorm/education/index.asp>

b. Public Education: The County published the annual edition of “Kane County Recycles” which includes information on household hazardous waste and used motor oil recycling programs. 100,000 copies were distributed in local newspapers and to county, municipal and township offices. The information contained in the Kane County Recycles publication can be found online at <http://www.co.kane.il.us/Environment/recycle/index.htm>.

c. Kane County’s Stormwater and Environmental Management Department maintains a website that includes information about, flooding and water conservation information for Kane County residents. The Kane County Environmental Management Department website address is [www.co.kane.il.us/kcstorm/index.asp](http://www.co.kane.il.us/kcstorm/index.asp).

##### **4. Tributary Signage:**

In 2003, Kane County developed standard tributary identification signs featuring the winning artwork from a student poster contest. A total of 130 signs were placed at stream crossings since the beginning of the program. Kane County will still provide the design of the sign to municipalities that are still interested in participating in identifying the streams. The City of Batavia has placed numerous signs around town at all of our stream crossings, including Mill Creek, McKee Creek and Mahoney Creek.

#### **CM 2: Public Involvement and Participation:**

##### **1. Stream Monitoring Program:**

The Friends of the Fox River continued to operate its stream-monitoring network, although not under contract with Kane County. A total of 112 locations are now being monitored throughout Kane County. In 2006 Kane County assisted the Friends of the Fox River in assembling a website to display and disseminate data from the monitoring. The website link is [http://www.friendsofthefoxriver.org/frwmn-sites/frwmn\\_main.htm](http://www.friendsofthefoxriver.org/frwmn-sites/frwmn_main.htm)

In addition Kane County has come up with a website for Fox River Watershed Real-Time USGS Gages sites and it links you to the USGS website. The website link is [http://www.co.kane.il.us/kcstorm/FoxRiverGages/frg\\_main.htm](http://www.co.kane.il.us/kcstorm/FoxRiverGages/frg_main.htm) This year Kane County helped out with securing \$50,000.00 from Kane County Riverboat Grant Fund to assist this program.

2. Storm Drain Stenciling Program:

Kane County along with Kane-DuPage Soil & Water District continues to make storm drain stenciling supplies available to local interested groups.

3. Other Public Participation/Involvement Activities:

- a. Used Motor Oil Program: The County conducted one drop-off event for used motor oil, on August 22<sup>rd</sup> where motor oil was collected for recycling.
- b. The County continued its involvement of a comprehensive Household Hazardous collection program. A collection event for the county was suspended due to state funding problems, but the state still maintains a permanent drop-off facility in Naperville, IL every Saturday and Sunday. In addition the program still includes a door-to-door collection service for a limited number of communities in Kane County.

## **Item F: - List of Construction Projects active for 2009-2010**

The following is a list of projects that the City of Batavia had active during 2009-2010:

1. Braeburn Marsh Wetland Mitigation and Drainage Study/Improvements
2. Fermi Lab Drainage Study/Improvements
3. Drainage Program (minor drainage improvements for specific locations)
4. Street Program – Resurface
5. Wilson Street Resurfacing Project
6. Deerpath Road Bridge Phase I Engineering

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