



June 06, 2014

Illinois Environmental Protection Agency  
Permits Section, DWPC  
1021 N. Grand Avenue East  
Springfield, IL 62702

**Subject: Village of Savoy 2013 NPDES Phase II Annual Storm Water Report**

To Whom It May Concern:

Enclosed please find Savoy's 2013 NPDES Phase II Storm Water Annual Report. Submission of the Annual Report meets the requirements of the General NPDES Permit No. ILR400442.

If you have any questions, please contact me at (217) 359-0655.

Sincerely,

Levi Kopmann, P.E.  
Asst. Director of Public Works/Village Engineer

Enclosures: Savoy 2013 NPDES Phase II Annual Storm Water Report

Cc: Holly Hirschert – IEPA Champaign Office  
File

**PRESIDENT**  
Robert C. McCleary

**TRUSTEES**  
John P. Brown  
Joan Dykstra  
Jan Carter Niccum  
Rebecca Pittman  
Dee Shonkwiler  
William A. Smith

**MANAGER**  
Richard Helton

**TREASURER**  
C. David Well

**CLERK**  
Billie Jean Krueger

**DIRECTOR OF  
PUBLIC WORKS/  
ENGINEER**  
Brent P. Maue

**ZONING  
ADMINISTRATOR**  
Daniel R. Davies

**FIRE CHIEF**  
Michael E. Forrest



## 2013 NPDES Phase II Storm Water Report

Prepared by:  
Levi L. Kopmann, PE  
Assistant Director of Public Works/Village Engineer

Illinois Environmental Protection Agency  
Annual Inspection Report  
For General Permit for Discharges From  
Small Municipal Separate Storm Systems

Village of Savoy, Illinois  
NPDES Permit No. ILR 400442

**Reporting Period:**

April 1, 2013 to March 31, 2014

**MS4 Operator Information:**

Village of Savoy, Illinois  
611 North Dunlap Avenue  
Savoy, IL 61874  
(217) 359-0655

Levi L. Kopmann, Assistant Director of Public Works/Village Engineer

**Governmental Entity In Which MS4 Is Located:**

Savoy, Illinois

**Introduction/Background**

The 1987 amendments to the Clean Water Act required the United States Environmental Protection Agency (USEPA) to address storm water runoff in two phases. Phase I of the National Pollution Discharge Elimination System (NPDES) Storm Water Program became effective in 1990. Phase I of the program applied strictly to large and medium MS4s and eleven industrial categories including construction sites disturbing 5 or more acres of land. Phase II of the NPDES Storm Water Program became effective March 10<sup>th</sup>, 2003 and is applicable to small MS4s and construction sites disturbing between 1 and 5 acres of land. Phase II also expands the industrial “no exposure” exemption from Phase I. The Illinois Environmental Protection Agency (IEPA) is charged with implementing and enforcing both phases of the NPDES Storm Water Program.

As a small MS4, the Village was required to comply with the Phase II regulations by submitting a Notice of Intent (NOI) to the IEPA by March 10<sup>th</sup>, 2003. The NOI serves as the application documentation for the NPDES Phase II Permit that applies to storm water discharges from the storm sewers and drainage basins within the Village’s jurisdiction for a period of five years. The NOI outlined an implementation plan for six minimum control measures targeting improvement in storm water quality. Those six measures are as follows:

1. Public Education and Outreach
2. Public Participation and Involvement
3. Illicit Discharge Detection and Elimination
4. Construction Site Runoff Control
5. Post-construction Runoff Control\*
6. Pollution Prevention and Good Housekeeping

\*The Village requested and received an extension of time for the implementation of these measures in May of 2012.

As part of the NOI, the Village of Savoy developed a plan to address these six measures, tailored to the unique characteristics and needs of the Village. In the application, the Village defined Best Management Practices (BMPs) for each minimum control measure and established measurable goals for each. It is intended that the Village will measure and document its progress towards meeting these goals during each year of the permit period in the form of an annual report. This document will be submitted yearly to the IEPA.

Savoy has worked in cooperation with other MS4s in the urbanized area to share costs and common efforts and to develop a regional consistency in BMPs towards fulfilling the requirements of the NPDES Phase II Storm Water Program. BMPs were chosen that reflect the desire to build upon existing Village programs currently in place.

Due to changes in personnel, Savoy submitted its second Notice of Intent (NOI) due in March 2008, in May of 2009. The Village received permit number ILR400442. During the life of the permit the Village will document and record all compliance efforts, as necessary, and report progress annually to the IEPA. The NOI was originally intended to serve as a 5 year recording cycle. This document serves as the report for the Year 6 activities.

#### **Permit Compliance Assessment:**

The Village originally proposed in its NOI to implement thirty-one (31) BMPs during Year 5 of its second NOI to address the six required minimum control measures. These 31 BMP's will also serve as proposed implementations for Year 6. The Village was able to implement to some degree of completion all thirty-one (31) of the listed BMPs.

The Village requested and received from the Illinois EPA an extension on the 5 post-construction BMP's scheduled in the Year 5 activities in May of 2012. It is assumed that the extension still applies for Year 6 activities in 2013 because there has been no communication that suggests otherwise.

## **Information Collected and Analyzed:**

### **BMP C.3.2:**

No illicit discharges were received and no patterns were discovered. Public Works crews cleaned over 22,500 feet of sanitary sewer, 8,800 feet of storm sewer, televised over 18,000 feet of sanitary sewer, and inspected numerous manholes in report year.

### **BMP C.5.2:**

No illegal connections to private storm or sanitary sewers were identified in report year.

### **BMP C.10.1:**

One new residential development and one new commercial development were constructed in the reporting year. Inspections were made on all underground construction as the work was ongoing. No illegal connections were identified.

### **BMP F.1.1:**

Salt w/ Ice Ban additive, which reduces application rate for salt effectiveness, was applied at a rate of 300-800 pounds per two-lane mile of road as recommended by the Salt Institute. A total of 212.5 tons of chemical treatment was applied in this reporting year.

### **BMP F.2.1:**

During this year, the Village began systematically cleaning storm sewer pipe. Over 8,800 feet of storm sewer was cleaned.

### **BMP F.2.3:**

Sweeping occurred as scheduled. Materials collected were transported to an approved land disposal facility. Approximately 41.9 tons of debris were removed from streets during reporting year.

## **Stormwater Activities for Year 6 of Permit:**

The Year 6 BMP Summary for the storm water discharge permit cycle included in the attachment titled BMP Narrative and describes the Village's proposed storm water activities from April 1, 2013 to March 31, 2014.

The Village submitted a new NOI in 2013, however, a new permit has not yet been issued. Therefore, the Village will continue to use goals set forth in the 2008 NOI as measurable goals for the upcoming year 7 of the cycle.

**Year 6 Construction Projects:**

The Village of Savoy had two significant construction projects during Year 6 that disturbed one or more acres:

1. Woodfield Drainage Ditch Improvements Project- Both a notice of intent (NOI) and a notice of termination (NOT) have been filed for this project. Additionally, Jonathan Manual of the Champaign County Soil and Water Conservation District inspected this project while it was ongoing.
2. New Public Works Facility - Notice of Intent has been filed for this project.

Construction projects during Year 6 that disturbed less than one acre:

1. Holly Court Reconstruction Project
2. Various sidewalk replacement projects

Respectfully Submitted,



Levi L. Kopmann, P.E.

Assistant Director of Public Works/Village Engineer

Date: 06/06/2014

**BMP Summary**  
**Village of Savoy**  
**April 1, 2013 thru March 31, 2014**

**BMP Category - Public Education and Outreach**

**BMP A.1.1 - Maintain and update storm water website which will contribute information and contain links to other sources of storm water resources.**

Year 6 Milestone - Update Website

The Village has completely re-developed our website, which includes updates to storm water resources information available to the public. The website now includes general information on the storm water control process, as well as links to the following:

International Erosion Control Association  
Center for Watershed Protection  
Illinois Environmental Protection Agency  
US Environmental Protection Agency  
NPDES Program  
Construction Industry Compliance Assistance

Also included in the Storm Water Resources website page are links to the Village's 2008 NOI Phase II Permit Application, and 2012 Annual NPDES Phase II Compliance Report.

Year 7 Milestone - Update Website

Continue to provide information to developers, business owners, and the general public regarding current and future storm water issues via the Village website.

**BMP A.1.2 - Distribute written materials which discuss recycling options and storm water pollution prevention efforts.**

Year 6 Milestone - Distribute written materials to the public.

Erosion control brochures continue to be given to builders during building permit process. Similar brochures are available to the public, and whoever is interested, in several Village offices.

The Village co-sponsored, and participated in two Countywide Residential Electronic Recycling Events (April 20, 2013 and October 12, 2013). Flyers were available at several Village buildings, and both events were advertised on the Village website.

Year 7 Milestone - Distribute written materials to the public.

We anticipate continuing what we have described above.

**BMP Summary**  
**Village of Savoy**  
**April 1, 2013 thru March 31, 2014**

**BMP A.2.1 - Be available for speaking engagements to business groups, service clubs, developers, engineers/architects, contractors, and neighborhood groups about Phase 2.**

Year 6 Milestone - Be available to speak at group engagements when requested.  
No requests received. The Village has added a "Questions and Comments" application to our website, giving residents and businesses the opportunity to ask questions related to storm water resources.

Year 7 Milestone - Be available to speak at group engagements when requested.  
In conjunction with other local MS4s, the Village will participate in a storm water conference at the I Hotel both monetarily and in staff time.

**BMP A.5.1 - Be available to schools for tour/demonstrations of facilities and equipment to provide students an opportunity to become familiar with Savoy's efforts to clean up storm water runoff.**

Year 6 Milestone - Be available to speak to classes when requested.  
No requests received.

Year 7 Milestone - Be available to speak to classes when requested.  
We would like to have a presence in Carrie Busey School in this next reporting year.

**BMP Category - Public Participation/Involvement**

**BMP B.6.1 - On-going committee meetings of the cooperating MS4s (City of Urbana, City of Champaign, Village of Savoy, Champaign County, and the University of Illinois) to discuss NPDES Phase II requirements.**

Year 6 Milestone - 4 Committee Meetings Held.  
Hosted and participated in 4 MS4 Meetings. Agendas and Minutes on file.

Year 7 Milestone - 4 Committee Meetings Held.  
We will again host and participate in 4 Committee Meetings.

**BMP Category - Illicit Discharge Detection and Elimination**

**BMP C.1.1 - Update storm sewer system map annually.**

Year 6 Milestone - Update storm sewer map.  
All storm sewer and sanitary sewer maps have been updated via GPS. Maps have been cross referenced with previous plan sets for accuracy. Data is available as requested.

**BMP Summary**  
**Village of Savoy**  
**April 1, 2013 thru March 31, 2014**

Year 7 Milestone - Update storm sewer map.

We will continue to update sanitary sewer and storm sewer maps as new subdivisions are built.

**BMP C.2.1 - Enforce illegal discharge and illegal dumping ordinances.**

Year 6 Milestone - Enforce illegal discharge and illegal dumping ordinances.  
No illegal discharges or illegal dumping events discovered in reporting year.

Year 7 Milestone - Enforce illegal discharge and illegal dumping ordinances.  
We will continue to enforce discharge and dumping ordinances as events are discovered.

**BMP C.3.1 - Investigate public reports of illicit discharges.**

Year 6 Milestone - Continue Staffing hotline for residents to call and report complaints and investigate all complaints.

We maintain information on our website indicating who residents can contact to report complaints. No complaints received. The Village website also has a "Questions and Comments" application available for residents to report complaints.

Year 7 Milestone - Continue Staffing hotline for residents to call and report complaints and investigate all complaints.

We will continue as stated above.

**BMP C.3.2 - Investigate areas with a pattern of illicit discharges and enforce ordinances.**

Year 6 Milestone - Implement plan to investigate areas with a pattern of illicit discharges on an as-needed basis, per plan in C.3.1. and levy penalties as needed.

No reports of illicit discharges were received and no patterns were discovered. Public Works crews cleaned over 22,500 feet of sanitary sewer, 8,800 feet of storm sewer, televised over 18,000 feet of sanitary sewer, and inspected numerous manholes in report year.

The Village also regularly inspects 13 privately owned storm sewer detention basins and 3 Village owned detention basins during dry periods of the year.

Year 7 Milestone - Implement plan to investigate areas with a pattern of illicit discharges on an as-needed basis, per plan in C.3.1. and levy penalties as needed.

The Village will continue to monitor storm sewer, sanitary sewer, and detention basins for illicit discharges as described above.

**BMP Summary**  
**Village of Savoy**  
**April 1, 2013 thru March 31, 2014**

**BMP C.5.1 - Facilitate the disconnection of illegal connection from Village owned storm and sanitary sewers.**

Year 6 Milestone - Connections removed on an as-needed basis.

No illegal connections were discovered in this report year. As indicated above, no suspicious flows were discovered or reported. The Village performed televising on a total of 18,000 feet of sanitary sewer in the report year and cleaned a combined 31,300 feet of sanitary sewer and storm sewer.

Year 7 Milestone - Connections removed on an as-needed basis.

Village will again perform approximately 20,000 feet of sanitary sewer televising and 30,000 feet of sanitary sewer and storm sewer cleaning.

**BMP C.5.2 - Facilitate the disconnection of illegal connections from privately owned storm and sanitary sewers.**

Year 6 Milestone - Notify residents and follow-up on an as-needed basis.

No illegal connections to private storm or sanitary sewers were identified in report year.

Year 7 Milestone - Notify residents and follow-up on an as-needed basis.

**BMP C.6.1 - Annual report to the Urbana-Champaign Sanitary District documenting all sanitary sewer activity and Phase 2 activities.**

Year 6 Milestone - Submit annual report to the Sanitary District.

The annual report submitted to UCSD on June 16, 2014.

Year 7 Milestone - Submit annual report to the Sanitary District.

**BMP C.7.1 - Visual inspection of outfalls during dry weather. If needed, perform water quality sampling on suspicious discharges at outfalls.**

Year 6 Milestone - Visually inspect storm outfalls discharging to state waterways.

Visually inspected storm sewer outfalls to two un-named tributaries to the Phinney Branch and 5 un-named tributaries to the Embarrass River for suspicious discharges. No suspicious discharges identified in the reporting year.

Year 7 Milestone - Visually inspect storm outfalls discharging to state waterways.

Continue to monitor locations referenced above during dry weather periods.

**BMP Summary**  
**Village of Savoy**  
**April 1, 2013 thru March 31, 2014**

**BMP C.9.1 - Develop, publicize, and staff a hotline for residents to report illegal discharges.**

Year 6 Milestone - Continued staffing of hotline.

The Village's website lists a number to contact to report illegal discharges. Between Village Staff and Metcad someone is available 24 hours a day 7 days a week to receive reports of illegal discharges. No such reports were received in this reporting year.

The Village has also developed a "Questions and Comments" website application in which residents can use to report illegal discharges, if necessary.

Year 7 Milestone - Continued staffing of hotline.

**BMP C.10.1 - Inspect each new development for illegal connections.**

Year 6 Milestone - Inspect each new development.

One new residential development and one new commercial development were constructed in the reporting year. Inspections were made on all underground construction as the work was ongoing. No illegal connections were identified.

Year 7 Milestone - Inspect each new development.

Three new residential developments are anticipated in the new reporting year.

**BMP C.10.2 - Storm drain stenciling or stickering program in new developments as they are built.**

Year 6 Milestone - Stencil/Sticker each development.

Plans for Phase II of Lake Falls, Phase III of Lake Falls, Phase II of Fieldstone, and Phase III of Prairie Meadows have been reviewed, and include requirement to have "Dump No Waste - Runs to River" cast into frame.

Year 7 Milestone - Stencil/Sticker each development.

**BMP Category - Construction Site Runoff Control**

**BMP D.1.1 - Enforce erosion and sediment control ordinance.**

Year 6 Milestone - Enforce erosion and sediment control ordinance.

In this reporting year we had 2 private development projects that required an NPDES permit and 2 Village projects that required a permit. The Village has well documented authority over projects that disturb both more than 1 acre and projects that disturb less than one acre.

Year 7 Milestone - Enforce erosion and sediment control ordinance.

## **BMP Summary**

### **Village of Savoy**

**April 1, 2013 thru March 31, 2014**

**BMP D.2.1 - Pre-construction briefings to implement and describe Phase 2 regulations to engineers, developers, and contractors. Projects greater than 1 acre or near surface water will be targeted.**

Year 6 Milestone - Conduct briefings before each project.

Briefings were held prior to start of construction projects. Village zoning staff requires developers to sign a document acknowledging their responsibilities prior to issuing building or demolition permits. In addition to the 4 projects mentioned above that required NPDES Stormwater permits, 53 residential building occupancy permits were issued.

Year 7 Milestone - Conduct briefings before each project.

**BMP D.3.1 - Enforce construction site waste regulations in erosion and sediment control ordinance.**

Year 6 Milestone - Enforce construction site waste regulations

Construction site waste regulations are covered more specifically in the "Nuisance" portion of Village code. Residential and commercial construction sites are inspected regularly by Village Zoning and Public Works staff. Waste regulations are enforced as a regular part of these inspections. Typically, these sort of situations deal mainly with refuse and sites are quickly brought into compliance once a verbal request is made.

Year 7 Milestone - Enforce construction site waste regulations.

**BMP D.4.1 - Review erosion control plans submitted by developers for each project.**

Year 6 Milestone - Review each project submitted.

Village Engineering Staff reviewed each erosion control plan submitted and Engineering or Zoning Staff performed site inspections to ensure conformance with the submitted plan. In this reporting year we had two private developments that required a SWPPP and NOI:

Villas at Hollybrook Assisted Living  
Autumn Fields Assisted Living

The Village also had two public projects that required a SWPPP and NOI:  
Woodfield Drainage Ditch Improvements  
New Public Works Facility

Village staff inspected the two private developments for conformance and the Village's New Public Works Facility. A consulting engineer was responsible for inspection of the Woodfield Drainage Ditch Improvements.

Year 7 Milestone - Review each project submitted.

**BMP Summary**  
**Village of Savoy**  
**April 1, 2013 thru March 31, 2014**

**BMP D.5.1 - Publicize and staff a hotline for residents to report soil erosion/sediment control non-compliance. Follow through with resident complaints and take appropriate action against contractors, as needed.**

Year 6 Milestone - Staff a hotline. Investigate complaints and take action as required.

Hotline published on the Village's website and staffed. No resident complaints received about erosion/sediment control non-compliance. Similar to past years, several complaints received about flooded streets after heavy rain events in areas where silt baskets had been installed. Upon inspection, Zoning Staff requested responsible contractors perform maintenance at these locations. Silt baskets were only partially full but could not keep up with flow being directed to them.

Year 7 Milestone - Staff a hotline. Investigate complaints and take action as required.

**BMP D.6.1 - Conduct construction site inspections.**

Year 6 Milestone - Inspections conducted weekly or after rain events > 0.5 inches. Sites which require an NPDES permit perform this function as a requirement of their permit. Village staff monitors site conditions as part of their routine inspections for all phases of construction from initial building permit through final occupancy permit. Any violations or sites that need housekeeping are addressed with the contractor. In the reporting year 53 occupancy permits were issued. 45 verbal warnings of violations were made during reporting year, along with 9 emails of violation, and 6 letters of intent to fine and stop work orders.

Year 7 Milestone - Inspections conducted weekly or after rain events > 0.5 inches.

**BMP Category - Post Construction Runoff Control**

The Village requested an extension in 2012 on the implementation of this category of BMP's until federal and state requirements have been established. However, the Village does have ordinances in place requiring that detention basins be constructed for all new development and redevelopment. This ordinance requires detention of the difference in flows from a 5 year event in an agricultural setting and a 50 year event - post development. Additionally, Village staff reviews site plans and makes every attempt to require vegetative buffer strips between developed land and streams or other concentrated flows. Finally, the Village supports eco-friendly development and encourages the use of bio-swales and infiltration basins, particularly with commercial developments, during the planning stage.

**BMP Summary**  
**Village of Savoy**  
**April 1, 2013 thru March 31, 2014**  
**BMP Category - Pollution Prevention/Good Housekeeping**

**BMP F.1.1 - Salt and calcium application training for snow plow applicators.**

Year 6 Milestone - Salt and calcium application training for snow plow applicators.

Salt w/ Ice Ban additive, which reduces application rate for salt effectiveness, was applied at a rate of 300-800 pounds per two-lane mile of road as recommended by the Salt Institute. A total of 212.5 tons of chemical treatment was applied in this reporting year.

Year 7 Milestone - Salt and calcium application training for snow plow applicators.

**BMP F.1.2 - Provide training to employees who have routine contact with chemical substances.**

Year 6 Milestone - Training session completed.

Those individuals who have routine contact with chemical substances are shown the location of the MSD's and advised of the proper handling procedures. Those individuals who deal with pesticide and herbicide application, primarily parks staff, are licensed by the Illinois Department of Agriculture and certified by testing and continued training for those activities. Currently, all Parks employees are certified. Two streets staff employees are also certified.

Year 7 Milestone - Training session completed.

Continue to provide training as necessary.

**BMP F.1.3 - Training for abatement and containment of hazardous materials spills.**

Year 6 Milestone - Training session completed for 100% of firefighters.

Training completed. Public Works has also completed a comprehensive GIS map of the Village storm sewer and sanitary sewer infrastructure. This information will allow for quick identification of where any hazardous materials spills may end up if they are able to reach either sewer system.

Year 7 Milestone - Training session completed for 100% of firefighters.

**BMP F.1.4 - Pesticide and herbicide application training.**

Year 6 Milestone - License review and training session completed.

All employees that use pesticides/herbicides are licensed by the Illinois Department of Agriculture. See F.1.2 for more detail.

**BMP Summary**  
**Village of Savoy**  
**April 1, 2013 thru March 31, 2014**

Year 7 Milestone - License review and training session completed.

All employees that use pesticides/herbicides are licensed by the Illinois Department of Agriculture. See F.1.2 for more detail.

**BMP F.2.1 - Storm Sewer Cleaning.**

Year 6 Milestone - Annual Maintenance conducted.

During this year, the Village began systematically cleaning storm sewer pipe. Over 8,800 feet of storm sewer was cleaned.

Savoy Public Works responds to resident complaints and investigates any areas showing evidence of reduced storm sewer capacities. During this year, numerous complaints were received regarding capacity of our Church Street corridor storm sewer. Dense tree roots were discovered to be the cause. Following removal of roots, the sewer was televised to ensure of no blockages.

Year 7 Milestone - Annual Maintenance conducted.

The Village will continue to systematically clean storm sewer pipes, and respond to complaints and concerns regarding to storm sewer capacity and performance.

**BMP F.2.2 - Storm inlet and manhole inspection and cleaning.**

Year 6 Milestone - As necessary, complete inspections and clean storm manholes and inlets.

Savoy Public Works annually inspects and cleans inlets which require maintenance. PW also responds appropriately to reported problems as needed. During larger storm events debris is regularly cleaned from inlet castings Village-wide and properly disposed of.

In report year, one severely degraded storm inlet was replaced during a street corner pavement replacement by Public Works staff. Staff also successfully sealed seven existing storm sewer manholes using hydraulic grout and Controlled Low Strength Material (CLSM) fillable flow.

Year 7 Milestone - As necessary, complete inspections and clean storm manholes and inlets.

Inspections will continue, as will repairs by Public Works staff.

**BMP F.2.3 - Street sweeping.**

Year 6 Milestone - Sweep business district 18 times per year and residential and arterial streets 12 times per year, weather permitting.

Sweeping occurred as scheduled. Materials collected were transported to an approved land disposal facility. Approximately 41.9 tons of debris were removed from streets during reporting year.

**BMP Summary**

**Village of Savoy**

**April 1, 2013 thru March 31, 2014**

Year 7 Milestone - Sweep business district 18 times per year and residential and arterial streets 12 times per year, weather permitting.

Continue sweeping streets as scheduled above.

**BMP F.4.1 - Oil and fluid disposal program to dispose of oils and fuels by a licensed waste hauler.**

Year 6 Milestone - As needed, disposal of oil and fluids by a licensed waste hauler.

All used oil from Village equipment is recycled. All other fluids are disposed of by a licensed waste hauler.

Year 7 Milestone - As needed, disposal of oil and fluids by a licensed waste hauler.

Continue to recycle all used Village oil.

**BMP F.6.1 - Reduce salt application rates by using environmentally friendly deicing chemicals.**

Year 6 Milestone - Reduce salt application by using "Ice Ban" and document application rates.

Ice Ban, which is a product made from beets, is applied to all salt shipments we receive. The Village used 212.5 tons of deicing chemicals/salt in this reporting year.

Year 7 Milestone - Reduce salt application by using "Ice Ban" and document applications rates.