



# 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, 2013 To March, 2014

Permit No. ILR40

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

Name: Village of Bartlett Mailing Address 1: 228 South Main Street  
Mailing Address 2: \_\_\_\_\_ County: DuPage  
City: Bartlett State: IL Zip: 60103 Telephone: 630-837-0811  
Contact Person: Robert Allen, P.E., Village Engineer Email Address: rallen@vbartlett.org  
(Person responsible for Annual Report)

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

Village of Bartlett

#### 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
- 2. Public Participation/Involvement
- 3. Illicit Discharge Detection & Elimination
- 4. Construction Site Runoff Control
- 5. Post-Construction Runoff Control
- 6. Pollution Prevention/Good Housekeeping

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:

Robert Allen

Printed Name:

5-14-14

Date:

Village Engineer

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.

## DRSCW NPDES Activities March 2013 – March 2014

### 1. Public education and outreach on stormwater impacts

DRSCW outreach activities for the year ending 2014 included:

- The DRSCW website was maintained during the reporting period and periodically updated with presentations, reports and other relevant water quality material ([www.drscw.org](http://www.drscw.org)).
- An online stream resource database page has been developed for the website allowing users to query water chemistry, biological and physical stream data for area waterways.
- Other Public information available on the website includes:
  - Chloride Fact Sheets aimed at mayors and managers, public works staff, commercial operators, and homeowners.
  - Appliance guidance worksheet for commercial parking lot winter deicing
  - A fact sheet summarizing the characteristics of alternative deicing products
  - Phase diagrams for the most common chloride compounds used in winter maintenance
  - A brochure on coal tar sealants as a source of Polycyclic Aromatic Hydrocarbons (PAHs) aimed at homeowners (produced by the University of New Hampshire Stormwater Center).
  - Coal Tar Based Sealant MOU, cost benefit analysis and summary
  - On 3/18/14 The DRSCW released a winter newsletter covering winter levels of service and the Elgin O'Hare Western Access Project chloride offset with local government.



### Technical Presentations

Workgroup meetings: The Workgroup hosts bimonthly meetings where technical presentations are made on a variety of water quality topics and surface water management subjects. The audience consists of mainly stormwater and wastewater professionals but the general public is also welcome to attend. The list below includes presentations that were made during the period March 1, 2013 to February 26, 2014. Selected presentations are made available on the DRSCW website after the meetings.

#### April 24, 2013

Presentation: The Village of Itasca, Illinois Wastewater Treatment Plant Relocation  
Carl Fischer, P.E. BCEE, Manager, Wastewater Department, Baxter & Woodman, Inc. and Jeffrey Mohler, P.E. BCEE, Senior Engineer, Wastewater Department, Baxter & Woodman, Inc.

Presentation: Stormwater Management on the Elgin O'Hare – Western Access (EOWA) Project  
Reed Panther Illinois Toll Highway Authority, Stephen McCracken, The Conservation Foundation/  
DRSCW

#### **June 26, 2013 Meeting**

Presentation: Tollway MOU (Chloride Offset)  
Stephen McCracken, The Conservation Foundation/ DRSCW

#### **August 28, 2013 meeting**

Presentation: East Branch Basin Bioassessment 2011 Results  
Presenter: Chris O. Yoder, Research Director, Midwest Biodiversity Institute

Presentation: Oak Meadows River Restoration Plan  
Presenters: John Mayer, Project Manager, and Erin Pande, Director with Ecological Services, Engineering  
Resource Associates, Inc.

#### **October 30, 2013 Meeting**

Presentation: Efficient and Effective Winter Maintenance: Getting it Done with Less Impact  
Presenter: Wilfrid Nixon, Ph.D., P.E., Professor of Civil and Environmental Engineering  
University of Iowa

Presentation: DRSCW Database Portal  
Presenter: Mark R. Willobee, Senior Engineer, Geosyntec Consultants

#### **December 11, 2013 Meeting**

Presentation: Chlorides Management at DuPage County  
Presenter: John Kawka, Manager of Highway Operations at DuPage County

Presentation: Elgin O' Hare Western Access Chloride Offset Targets and Allocations  
Presenter: Stephen McCracken, The Conservation Foundation/ DRSCW

#### **February 26, 2014 Annual Meeting**

Presentation: DRSCW Special Conditions Tool Outputs and White Paper Recommendations.  
Presenters: Stephen McCracken, TCF/DRSCW; Nick Menninga, Downers Grove Sanitary District

Presentation: Chloride Usage Education and Reduction Program Summary  
Presenter: Jim Knudsen, Village of Carol Stream

Presentation: West Branch Fish Passage Enhancement  
Presenters: Sarah Hunn, DuPage County Stormwater Management; Phil Mahoney, V3 Companies

Presentation: Oak Meadows Forest Preserve Dam Removal and River Restoration

Presenter: Andy Selle, Inter-Fluve

### **Other Workshops/ Special Meetings**

July 16, 2013 Special Meeting Chloride Offset Project

March 3, 2014 Continuous Dissolved Oxygen Monitoring Workshop

### **January 23, 2014 - 8:30-11:30: Facility Planning for Nutrient Removal in the DRSCW's Program Area**

Presentation: Review DRSCW's Draft Special Conditions

Presenter: Nick Menninga, Downers Grove Sanitary District and Stephen McCracken, TCF/ DRSCW

Presentation: Understanding Nutrient Removal: What should I do to get started?

Presenter: Ed Kobylinski, Black & Veatch Corporation

Presentation: Phosphorus Removal Study at Downers Grove Sanitary District

Presenter: Derek Wold, Baxter & Woodman and Nick Menninga

Presentation: Chemical and Biological Phosphorus Removal Testing at the Metropolitan Water Reclamation District of Greater Chicago (MWRD)

Presenter: Kathy Lai, Dongqi (Cindy) Qin, Tony Quintanilla, MWRD

### **DRSCW Calendar, Presentations and Press Coverage**

4.25.2013 - 2013 Clean Rivers, Clean Lake Conference in Wisconsin hosted by the Sweet Water (Southeastern Wisconsin Watersheds Trust, Inc.). A look at 6 Dams in DuPage County.

Summer 2013 edition of *Illinois RiverWatcher*. The National Great Rivers Research and Education Center (NGRREC) published an article on the DRSCW.

7.26.2013 – MWRDGC's Monitoring and Research Departments Seminar Series. "Adaptive Watershed Management to Achieve the Designated Use for Aquatic Life: Salt Creek and the Upper DuPage River"

10.08.2013 – WEF TECH. Presentation and moderation of a session on stream restoration to reach ecological integrity. John Oldenburg, Forest Preserve District DuPage County, and Beth Wentzel, Inter-Fluve, also presented.

11.21.2013 –Lake County Stormwater Management Commission. Dam removal as a tool for managing improved water quality and biological outcomes.

3.6.2014 – National webinar for stormwater BMPs on transportation infrastructure hosted by the USEPA. The Illinois Toll Highway Authority invited the DRSCW to co-present regarding the chloride offset program MOU.

3/10/14 – Prairie River Group of the Sierra Club. PAHs and Coal Tar sealants.

3/18/14 – WATERCON 2014 hosted by the Illinois Section American Water Works Association & Illinois Water Environment Association. White Paper proposal and Chloride Offset model.

## **2. Public involvement and participation**

### Monitoring Activities

- Seven (7) POTWs conducted additional conductivity and chloride monitoring activities on Salt Creek upstream of their plants and in effluent during August and/or September.

- Dissolved Oxygen (DO) – Ambient DO, pH, temperature and conductivity were measured at a number of sites under the continuous DO monitoring program. All DO data was collected under a Quality Assurance Plan agreed upon with IEPA<sup>1</sup>. A map of monitoring locations is given in Map 1. Sites were maintained by county, municipal and private environmental organization staff. Data collected in this report is used to develop the DRSCW Bioassessment report for the watershed. The data is also shared with IEPA for development and review of the 303(d) List.
- Bioassessment – Bioassessment sampling was carried out in the Salt Creek basin. A total of 50 sites (excluding DO sites) were sampled for water column chemistry, sediment chemistry, Fish and macroinvertebrate IBI (Index of Biological Integrity), and Qualitative Habitat Evaluation Index (QHEI) scores. The sediment and water column sampling parameters are listed in Table 1, sample site locations are indicated in Map 1.

Table 1. Water column and sediment parameters collected under the Bioassessment analysis	
Water Quality Parameters	Sediment Parameters
Demand Parameters	Sediment Metals
5 Day BOD	Arsenic
Chloride	Barium
Conductivity	Cadmium
Dissolved Oxygen	Chromium
pH	Copper
Temperature	Iron
Total Dissolved Solids	Lead
Total Suspended Solids	Manganese
	Nickel
Nutrients	Potassium
Ammonia	Silver
Nitrogen/Nitrate	Zinc
Nitrogen – Total Kjeldahl	
Phosphorus, Total	
	Sediment Organics
Metals	Organochlorine Pesticides
Cadmium	PCBS
Calcium	Percent Moisture
Copper	Semivolatile Organics
Iron	Volatile Organic Compounds
Lead	
Magnesium	
Zinc	
Organics – Water	
PCBS	
Pesticides	
Semivolatile Organics	
Volatile Organics	

Data from the plan is used to produce the Bioassessment analysis, to identify and prioritize stormwater, wastewater and restoration projects and is submitted to IEPA for use in the state's 303(d) list. The Bioassessment plan runs correlation analysis between IBI scores and various factors (water column chemistry, sediment chemistry and habitat). Reports for assessments for the period 2006-2011 are available on line at <http://drscw.org/>.

## Other Public Involvement

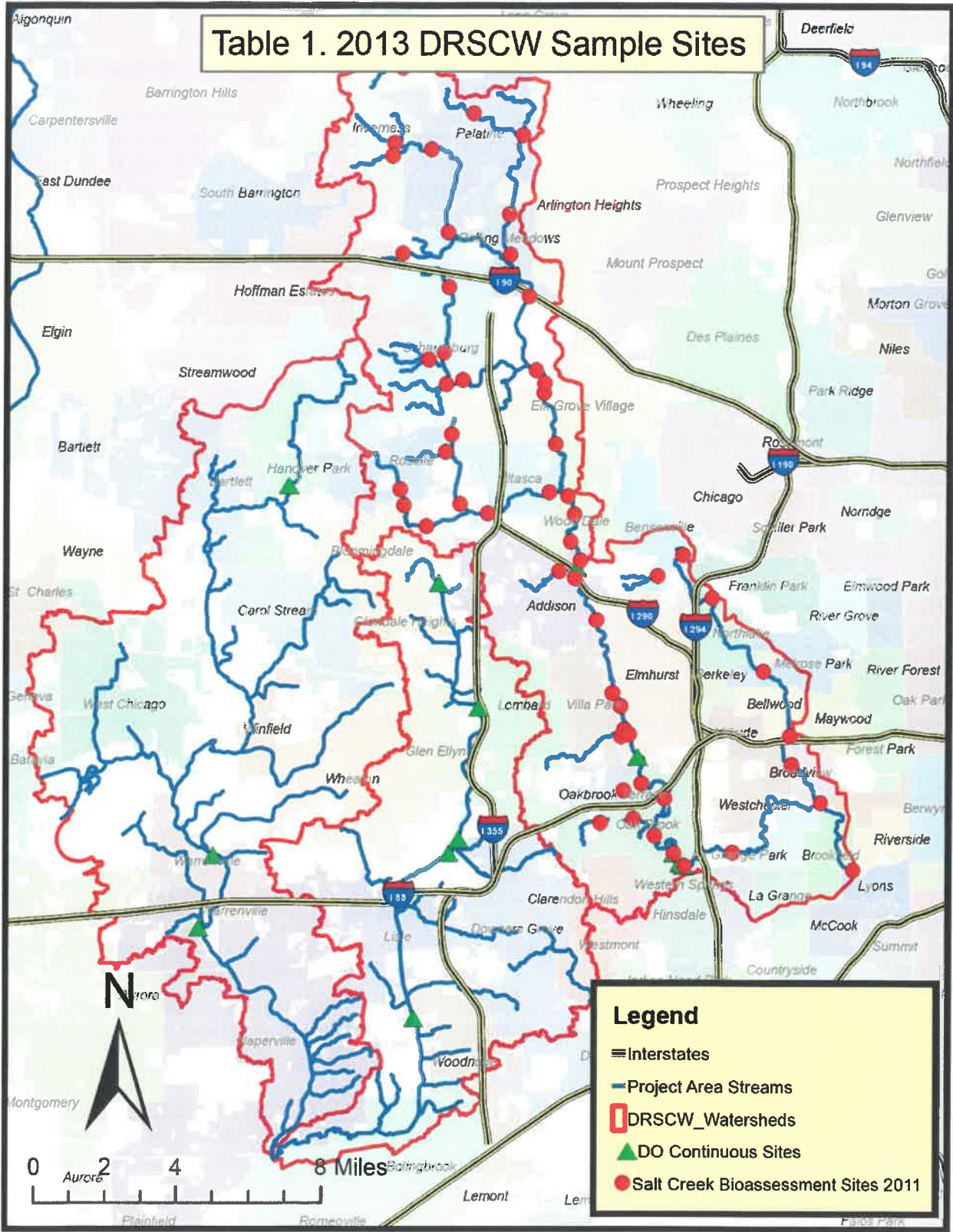
**3. Illicit discharge detection and elimination – no activities**

**4. Construction site storm water runoff control - no activities**



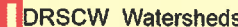


**5. Post-construction storm water management in new development and Redevelopment - no activities**

<sup>1</sup> DO Quality Assurance Plan DRSCW 2006

**Table 1. 2013 DRSCW Sample Sites**



**Legend**

-  Interstates
-  Project Area Streams
-  DRSCW\_Watersheds
-  DO Continuous Sites
-  Salt Creek Bioassessment Sites 2011

## 6. Pollution prevention/good housekeeping for municipal operations

Two chloride reduction workshops were held during the reporting period.

The Public Roads deicing workshop was held on 9.26.13. The agenda was as follows:

- Water Quality Conditions/Regulatory Update  
Stephen McCracken, The Conservation Foundation/DRSCW and Dan Bounds, CDM Smith
- Efficient and Effective Winter Maintenance: Getting it Done with Less Impact  
Professor Wilfrid Nixon, Ph.D., P.E. U of Iowa
- Weather Forecasts  
David James, WeatherCommand
- Offsetting Chloride Loading from the Elgin O'Hare Western Access Project  
Stephen McCracken and Reed Panther, Illinois Toll Highway Authority
- Local Deicing Program Updates, Facilitated by Mark DeVries, McHenry County Department of Transportation:  
Scott Weber, Village of Hanover Park  
John Kawka, DuPage County Division of Transportation  
Tim Peters, Illinois Department of Transportation
- Panel of Speakers - Open Forum Discussion
- 105 people attended excluding presenters. All attendees received a certificate of attendance.

**Equipment Show**

**Hot Buffet Breakfast!**

## Less Salt, Less Money, Enough Said.

### 2013 Public Roads Deicing Workshop Registration Form

**Thursday, September 26, 2013**  
**7:30 am - Noon**

DuPage County Division of Transportation  
140 N. County Farm Road - Main Entrance  
Wheaton, IL 60187

Hosted by DuPage River Salt Creek Workgroup, DuPage County Department of Transportation, and Workshop Sponsors:

DuPage River Salt Creek Workgroup

CDM Smith APWA

#### Agenda

- Buffet Breakfast and Sign-In
- Local Water Quality Conditions Update
- Offsetting Chloride Loading from the Elgin O'Hare Western Access Project
- Local Deicing Program Improvements
- Open Forum Discussion with Speakers, Sponsors, and Participants
- Equipment Show

Registration is required.  
Training certificates will be provided, up to 4 PDH's available.



The Parking Lot and Sidewalk deicing workshop was held on 10.03.13. The agenda was as follows:

- Local Chloride Reduction Program  
Stephen McCracken, The Conservation Foundation/DRSCW
- Impact of salt from winter snow fighting operations impacts our rivers and streams. Information on developing efficient and cost-effective snow fighting operations, appropriate product selection, application rates, equipment calibration.

Connie Fortin, Fortin Consulting,  
Chis Walsh, City of Beloit, WI

- Test on presented material
- This workshop had 55 participants excluding presenters. All participants received a training certificate and participants who passed the test are

recognized on the DuPage County Stormwater Management Division's Water Quality – Pollution Prevention/Good Housekeeping web page.



**Less Salt, Less Money, Enough Said.**

**2013 Parking Lot & Sidewalk Deicing Workshop Registration Form**

**Thursday, October 3, 2013**  
**7:30 am - Noon**

DuPage County Division of Transportation  
140 N. County Farm Road – Main Entrance  
Wheaton, IL 60187

Hosted by DuPage River Salt Creek Workgroup and DuPage County Department of Transportation, and Workshop Sponsors:

CDM Smith

**Agenda**

<b>7:30 am</b>	Registration and Breakfast Buffet
<b>8:00 am</b>	Local Chloride Reduction Program – <i>Stephen McCracken, DRSCW</i>
<b>8:20 am</b>	Deicing Program Certification Training Parking Lot and Sidewalk Certification Training

**Registration is required.**  
Training certificates will be provided, up to 4 PDH's available.