



"Growth with Pride"

Village of Bloomingdale

Franco A. Coladipietro
Village President

Jane E. Michelotti
Village Clerk

May 19, 2015

Mr. Rob Swanson
DuPage County Department of
Development and Environmental Concerns
Jack T. Knuepfer Administration Building
421 North County Farm Road
Wheaton, IL 60189-0853

RE: NPDES PHASE II – 2014-2015 ANNUAL FACILITY INSPECTION REPORT CO-
PERMITTEE INSPECTION REPORTS AND ATTACHMENTS/SUPPLEMENTAL
INFORMATION

Dear Mr. Swanson:

Pursuant to the intergovernmental agreement adopted by Resolution 2003-R-02 between the Village of Bloomingdale and County of DuPage dated January 13, 2003, please find enclosed two executed copies of Village of Bloomingdale NPDES Phase II 2014-2015 Annual Facilities Inspection Report which includes the Inspection Report and Attachments/Supplemental information. Please attach this information to the DuPage County Annual Facilities Inspection Report submittal due to IEPA by June 1, 2015.

Should you require additional information, please advise.

Very truly yours,

VILLAGE OF BLOOMINGDALE

Michael D. Marchi, P.E.
Director of Village Services

MDM:smr

Enclosures

Pc: Pietro Scalera, Village Administrator
Robert F. Prohaska, P.E., Assistant Village Engineer
James T. Monkemeyer, Assistant Director of Village Services
Michael J. Gricus, Building Commissioner



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, 2014 To March, 2015

Permit No. ILR40 0295

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

Name: Village of Bloomingdale Mailing Address 1: _____

Mailing Address 2: 201 South Bloomingdale Road County: DuPage

City: Bloomingdale State: IL Zip: 60108 Telephone: 630-671-5691

Contact Person: Michael D. Marchi Email Address: marchim@vil.bloomingdale.il.us
(Person responsible for Annual Report)

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

Village of Bloomingdale

THE FOLLOWING ITEMS MUST BE ADDRESSED.

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

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

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

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

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

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

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

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

Michael D. Marchi
Owner Signature:

Michael D. Marchi

Printed Name:

5-18-15
Date:

Director of Village Services

Title:

EMAIL COMPLETED FORM TO: 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

**NPDES PHASE II ANNUAL REPORT March 2014-March 2015
VILLAGE OF BLOOMINGDALE
PERMIT NUMBER – ILR 400295
SUPPLEMENT TO DUPAGE COUNTY ILR400502
VILLAGE SERVICES DEPARTMENT - UTILITIES DIVISION**

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.

In addition to information provided by DuPage County, and the DuPage River Salt Creek Workgroup (attached) the Village of Bloomingdale conducted additional activities toward compliance with permit conditions.

STORMWATER MANAGEMENT PRACTICES

A. Public Education and Outreach

A.1,A.2,A.3,A.4,A.5,A.6

- Storm Stenciling program – Coordinate as requested with Boy Scout volunteer groups and the Conservation Foundation Dupage River Coalition to stencil paint “Do Not Dump – Drains to River”.
- Adopted Proclamation on May 17, 2014 Supporting 2014 River Sweep
- Offered Informational Materials at Village Hall and on-line at Village web site (www.villageofBloomingdale.org) Published 15 articles in Village Almanac mailed directly to Village residents and businesses.
 1. February 2015 – “Residents Urged to Reduce Use of Road Salt This Winter” article concerning salt conservation in the interest of the environment.
 2. April 2014 – “Annual Cross Connection Control Device Inspection” article concerning requirements.
 3. April 2014 – “Help Prevent Polluted Runoff Water” article concerning pollutants washing into storm drains.
 4. June 2014 – “Household Hazardous Waste” article concerning paint recycling program.
 5. August 2014 – “Reduce Pollutants & Think Green About Your Grass” article about water quality and reducing nonpoint source pollution.
 6. August 2014 – “Recycling Events” article concerning home recycling.
 7. August 2014 – “Summer Water Conservation” article about water conservation.
 8. October 2014 – “Street Sweeping” article concerning reducing the potential from debris in front of storm inlets.
 9. October 2014 – “Recycling Events” article concerning free recycling events.

10. October 2014 – “2015 Tree Planting Program” article concerning 50/50 cost sharing
 11. October 2014 – “Don’t Leave Leaves in the Street” article concerning clearing of storm inlets.
 12. October 2014 – “Clean the Drains” article concerning helping to prevent street flooding and debris in storm inlets.
 13. October 2014 - “Recycling Event” article concerning free recycling events to dispose of electronics.
 14. December 2014 - “Ice and Salting” article concerning salt conservation in the interest of the environment
 15. December 2014 – “Scouts Help To Keep Waterways Clean” article concerning storm drain stenciling.
- **Informational Materials at Village Hall**
 1. DuPage County River Sweep brochure
 2. Car Wash Discharge Guidelines – Send Only Rain Down the Drain
 3. More than Rain Down the Drain – Illicit Discharge Detection and Elimination Public Awareness
 4. Maintain The Drain
 5. Car Wash and Pool Discharge Guidelines – Send Only Rain Down the Drain
 6. Help Prevent Ocean Pollution – Tips for Car Wash Fund-Raisers
 7. DuPage County Electronics Recycling Program
 8. Rain Barrels
 9. Storm Drain Stenciling – Dump No Waste Drains to River
 10. DuPage County Economic Development & Planning Stormwater Management Magnets “Only Rain Should Go Down the Storm Drain”
 11. Falling Into Winter DuPage County Stormwater Management BMP brochure
 12. Water Conservation and Protection Handout
 13. Springing into Summer
 - **Information Posted on the Village Website**
 1. Earth Hour 2015 March 28, 2015 with link
 2. Earth Day April 22, 2014 with link
 3. DuPage River Sweep May 17, 2015 with link
 4. Recycling Events for Electronics
 5. Adopt-A-Stream Program with link
 6. Recycling Events for Paint
 7. Cross Connection Information
 8. Reduce-Reuse-Recycle Information
 9. Green Infrastructure Options for Homeowners with link
 10. Water Conservation Tips
 11. Land Preservation and Watershed Protection with links
 12. Coal Tar Based Sealant brochure

13. RX Box Dispose of medications safely
 14. Conservation Foundation with link
 15. Recycling Opportunities
 16. DuPage River Salt Creek Workgroup
 17. Try Using a Rain Barrel
 18. NPDES PHASE II Notice of Intent for Permit Period 2009-2014
 19. General NPDES Permit ILR40 Effective April 1, 2009 – March 31, 2014
 20. NPDES PHASE II Annual Facility Inspection Report
- Published 24 Articles in Village Residential E-News sent to participating residents and businesses
 1. March 26, 2015 – “Help Celebrate Earth” Earth hour article concerning upcoming events
 2. March 26, 2015 – “Recycling Extravaganza” Event information
 3. March 26, 2015 – “Arbor Day” article concerning tree planting at DuJardin Elementary School on April 24, 2015
 4. March 26, 2015 – “Volunteer Tree Planting” article concerning upcoming event
 5. March 26, 2015 – “Green Infrastructure & Nature Friendly Landscaping Workshop” concerning upcoming event
 6. March 26, 2015 – “River Sweep” article concerning helping clean up our rivers
 7. March 26, 2015 – “Help Prevent Polluted Runoff Water Year Round” article concerning everyone activities you can do to help
 8. March 19, 2015 – “Earth Hour” Earth hour article concerning upcoming events with video
 9. January 20, 2015 – “What Impacts Have You Faced From Flooding?”
 10. December 30, 2014 – “Help Protect Our Waterways” article concerning use of road salt and Chloride Concentrations
 11. November 13, 2014 – “Help Prevent Street Flooding” article concerning storm drains, keeping inlet grates clear of debris
 12. October 23, 2014 – “Dump No Waste Storm Stenciling Project” Event information with pictures
 13. September 25, 2014 - “Recycling Event” article
 14. September 10, 2014 – “Adopt-A-Stream Fall Kickoff” event information
 15. May 29, 2014 – “Water Reports” Article
 16. May 29, 2014 – “Household Hazardous Waste” How to dispose of properly
 17. May 29, 2014 – “Latex Paint Recycling Program” Event information
 18. May 1, 2014 – “Electronics Recycling” article concerning upcoming events

19. April 24, 2014 – “Recycling Events” article concerning upcoming events
 20. April 17, 2014 – “Recycling Events” article concerning upcoming events
 21. April 17, 2014 – “Arbor Day” article concerning Arbor Day April 25, 2014 at Erickson School
 22. April 10, 2014 – “Celebrate Earth” article concerning upcoming events
 23. April 10, 2014 – “Recycling Events” article concerning upcoming events
 24. April 4, 2014 – “Celebrate Earth” article concerning upcoming events
- Offered and provided Water Reclamation Facility educational tours upon request to community groups.
 - COD Environmental Studies Class Tours – July 14, 2014 and September 23, 2014.
 - Participate as member of the DuPage River Salt Creek Workgroup – website, chloride information, workshops and newsletters.
 - Storm drain stenciling Cub Scout Pack 414 on October 11, 2014
 - Advised Subdivisions of Snow and Ice Control Operations-Salting October 29, 2014

C. Public Participation/ Involvement B.1,B.3,B.4,B.5,B.6

Stakeholder Meetings

- Staff attended stakeholder meetings as member of the DuPage River/Salt Creek Work Group (DRSCW)

Public Meetings

- **Staff attended the following in-house and Training Workshops**
 - Environmental Resources Training – March 3-30, 2014
 - IWEA Water Conference – March 17 thru March 19, 2014
 - ORP-WRF – April 1, 2014
 - Improving Chlorine Residual in a Distribution System – April 3, 2014
 - The Life of Stormwater Practice, Design and Construction of BMP’s – April 9, 2014
 - Illinois Underground Storage Tank Training – April 24, 2014
 - Annual Water Distribution Conference – April 24, 2014
 - Environmental Protection Agency ILWarn Seminar - April 29, 2014
 - IEPA Monthly Pumpage Report Information – May 1, 2014
 - Tightening Up The Sewer System – May 5, 2014
 - Water System Inspections – May 12, 2014
 - Digester Valving Workshop – May 28, 2014
 - DuPage River Salt Creek Workgroup Meeting – April 30, 2014, June 25, 2014, August 27, 2014, October 29, 2014, December 10, 2014 and February 13, 2015
 - 2014 Illinois Collection Systems Conference – June 26, 2014

- AWWA Mixing and Maintaining Water Quality in Tanks – August 29, 2014
- Cascade Waterworks Plant Tour – September 17, 2014
- IWEA Nutrient Removal and Recovery Workshop – September 19, 2014
- DuPage County Department of Transportation and DuPage County River Salt Creek Workgroup 2014 Public Roads Deicing Workshop – September 25, 2014
- Snow & Ice Control Workshop and Meeting – October 10, 2014
- IWEA Energy Conservation, Reduction and Reuse – October 23, 2014
- Illinois Energy Conservation Code – October 29, 2014
- Waste Water Worker Safety – November 4, 2014
- Mid Central Water Works Association Meeting – November 4, 2014
- OSHA General Industry Safety and Health Training – November 4, 2014
- Mid Central Water Works Association Meeting – December 17, 2014
- Water Loss Audit Seminar – January 13, 2015
- Waste Water Treatment Plant Blower Operations – January 14, 2015 and January 22, 2015
- Non Potable Water Detection and Chorine – February 1, 2015
- Reviewing Water and Sewer Plans – February 10, 2015 and February 19, 2015
- Waste Water Insight – February 23, 2015
- HD Supply Waterworks – February 26, 2015
- Design and Operation of Sustainable RCP Sewers – March 5, 2015

Volunteer Monitoring

- Continue to collect data for the DO monitoring station at Army Trail Road on the East Branch of the DuPage River in cooperation with DRSCW
- Published in the Village Almanac article seeking volunteer groups to “Put a Fish on Your Street” storm inlet stenciling program.
- Village Published hotline/contact information on the Village Web site and in the Village Almanac encouraging the public to report illicit discharges.

C. Illicit Discharge Detection and Elimination C.1,C.2,C.3,C.4,C.5,C.6,C.7,C.8

Storm Sewer Mapping

- Engineering Division completed annual update of Village Storm Sewer Atlas
- Inspected and cleaned the 135 storm sewer outfall structures inventoried in year one.

Regulatory Control Program

- Annual regulatory administration of 200+- sanitary sewer discharge permits pursuant to TITLE 9, CHAPTER 3, OF THE VILLAGE CODE, ORDINANCE NO. 92-31.

- Continued to enforce previously adopted TITLE 5, CHAPTER 3, OF VILLAGE CODE, ORDINANCE NO. 2009-30 “AN ORDINANCE REGULATING ILLICIT DISCHARGES AND DETECTION AND ELIMINATION OF ILLEGAL CONNECTIONS TO STORMWATER DRAINAGE SYSTEMS WITHIN THE VILLAGE OF BLOOMINGDALE” in cooperation with DuPage County Ordinance.
- Continued to support RESOLUTION NO. 2009-R-14 A RESOLUTION AUTHORIZING ENTERING INTO AN INTERGOVERNMENTAL AGREEMENT BETWEEN THE VILLAGE OF BLOOMINGDALE AND THE COUNTY OF DU PAGE, ILLINOIS FOR THE IMPLEMENTATION OF THE ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM as a full participant.
- Continued to enforce previously adopted TITLE 5, CHAPTER 3, OF VILLAGE CODE, ORDINANCE NO. 2009-31 “AN ORDINANCE PROHIBITING DISCHARGE OF HAZARDOUS MATERIALS WITHIN THE MUNICIPAL BOUNDARIES OF THE VILLAGE OF BLOOMINGDALE” which prohibits the discharging and depositing of hazardous materials or pollutants on any premise within the municipal boundaries of the Village of Bloomingdale.

D. Construction Site Runoff Control D.1,D.2,D.4,D.5,D.6

- Maintain full waiver status in the DuPage Countywide Stormwater and Floodplain Management Ordinance.
- Administer and enforce County Ordinance pursuant to VILLAGE CODE TITLE 10, CHAPTER 12.
- Participate in monthly Municipal Engineer’s Group meetings hosted by DuPage County.
- Participate in meetings hosted by DuPage River Salt Creek Workgroup.
- Participate in Stormwater Management Training Opportunities.
- Monthly inspection of construction sites to verify ongoing compliance with the stormwater permit, addressing such issues as storage volume, site housekeeping, and erosion and sediment control. Follow-up inspections with property owner and/or permittee as necessary.
- Utilize checklist and flowcharts for plan reviews related to the Stormwater Management Ordinance.
- Sent letter on September 26, 2014 to business’s regarding Deicing Workshop October 3, 2013 and per VILLAGE CODE TITLE 10, CHAPTER 9-2, SUBSECTION 302.1, the Village does not allow storage of salt on the exterior of private property.

E. Post Construction Stormwater Management

Maintain records on design of stormwater storage facilities for future verification of system operation.

- Work with owners of stormwater facilities upon completion of construction so that the owner of the facilities has a working

understanding of their operation and maintenance. Completed annual inspection of all stormwater storage basins and outlet control structures.

- Utilize checklists and review manuals to verify compliance of design with regulations.
- Observe construction of stormwater facilities. Perform inspection of stormwater facilities during construction and prior to the use of the facilities. Observe performance of the stormwater facilities to verify their operation is as planned.
- Annual inspection of stormwater facilities in the Spring of each year to verify all components are working as intended, with enforcement of deficiencies noted below:
- Worked with Management Company of the Bloomingdale Town Center detention basin to have plants mowed and kept from overgrowth to restore functionality of the basin.
- Worked with DuPage County to remove a beaver dam on the Covington Corporate Center Drainage Channel.
- Worked with Meijer to keep their detention and retention ponds to be free of debris and the outlet control structure in the retention pond to be free of obstructions so can drain properly.
- Make sure Silt fencing is surrounding work sites properly and grass planted-green space upgraded.
- Storm manholes cleaned and Best Management Practice for debris removal, storage and road clean up VILLAGE CODE TITLE 10, CHAPTER 9-2 SUBSECTION 308.1

F. Pollution Prevention/Good Housekeeping F.1,F.2,F.4,F.5

Employee Training Program

- Annual Village Snow and Ice Control Training and Equipment Calibration held 10-10-2014
- DuPage County Department of Transportation and DuPage County River Salt Creek Workgroup 2014 Public Roads Deicing Workshop – September 25, 2014

Inspection and Maintenance Program

- Successfully completed IEPA Inspection/Audit conducted on-site (WRF) on April 3, 2014.
- Annual contractual program consisting of cleaning and televising of approximately 42,439-feet of sanitary sewer and 17,907-feet of storm sewer.
- Continuous monitoring of the dissolved oxygen levels to maintain optimum concentrations at outfall of treatment facility into the East Branch of the DuPage River.
- Storm Manhole inspections completed quarterly and annually. Generated by work order process within the WRF for 17 manholes.
- Routine maintenance cleaning of 0-feet of storm sewer based on inspections.

- Inspected 155 storm catch basins.
- Contractual maintenance cleaning of 6 catch basins and 43 “in-house” cleaning of catch basins.
- Rebuilt or replaced 12 storm water inlets and/or basins; constructed 0 new catch basins to replace inlets.
- Performed 6 storm sewer point repairs.
- Responded to 25 storm water related service requests.
- Performed 6 inspections on creeks and ponds.
- Replaced grate at Levitt Pond to prevent debris from traveling downstream.
- Conduct Annual Street Sweeping Program minimum of 9 times a year.
- Cleaned approximately 13,750-feet of sanitary in-house.
- Annual contractual cured-in-place lining of 1,000 feet of sanitary sewer.
- Performed 4 river/creek inspections and cleaned as needed headwaters areas and culvert crossing at: Army Trail Road - East Branch DuPage River; Circle Avenue - Springbrook – Salt Creek.
- Storm inlet grate cleaning, as required, before during and after heavy rainfall.
- Conduct Spring and Fall pre-rain season inspections of 135 stormwater detention/retention facilities and outfalls
- Maintained three (3) catch basin/inlet sedimentation filters at the Public Works Facility.
- Several river/creek inspections and clean up – prior and after all heavy rainfalls.
- Conducted 31 upstream and downstream creek inspections on the East Branch of the DuPage River (EBDR); included the removal of debris and blockages. Pond inspections conducted upstream of facility.
- NPDES inspection of Water Reclamation Facility by Illinois Environmental Protection Agency representative on April 3, 2014.
- Multiple clean-ups of debris from East Branch of DuPage River.
- Annual WRF NPDES permit audit/inspection conducted by IEPA representative on April 3, 2014.
- In house usage of containment products for chemicals and maintenance areas.
- Investigated 1 event of reported oil spill on commercial paved surface. Property owner contained and cleaned without affecting downstream areas/systems.
- Rx pill disposal box drop off at the Village Hall.

Municipal Operations Waste Disposal

- Discuss permit and storm water goals with Public Works and Utilities maintenance staff seeking input for the development of draft housekeeping BMP's.

- Municipal Operations BMP's - Public Works Street Division administered annual contract Street Sweeping Program minimum nine (9) village-wide sweeps per year.
- Implemented procedures to reduce amount of salt for road deicing in the winter operations.
- Install and maintain aerator at village-owned 'regional' retention pond in Longridge Subdivision; treated pond for bottom feeding filamentous algae growth causing oxygen depletion.
- Disposed of spoil materials from Village excavations in compliance with IEPA CCDD requirements.



DuPage River Salt Creek Workgroup

DRSCW NPDES Activities March 2014 – March 2015

1. Public education and outreach on stormwater impacts

DRSCW outreach activities for the year ending 2015 included:

- The DRSCW website was maintained during the reporting period and periodically updated with presentations and material (www.drscw.org).
- The online stream resource searchable database with information on local aquatic biodiversity, habitat, sediment and water column chemistry was updated.
- The online data viewer and searchable database, indicating monitoring locations throughout the three basins, was updated to include data from the Lower DuPage River Watershed Coalition.
- The DRSCW created a "Water Resource Manager's Guide to Aquatic Bioassessment," to be finalized in 2015.
- The 2014 Public Roads Deicing Questionnaire was distributed and responses were summarized and will be used to help plan other outreach strategies and future deicing workshop agendas.
- A draft Ambient Monitoring Data Analysis – 2013-2014 Winter Season was received and is under review.
- The DRSCW published on the website and distributed a fall 2014 newsletter, which included the IGIG award announcement (which was later frozen); articles on Michigan DOT's Bounce and Scatter Study, Low Cost Ways to Reduce Salt Use; Rethinking Winter Roads Policy in Carol Stream; Evaluation of Leaf Collection Programs as a Means to Reduce Phosphorus Loads from Urban Basins.
- Public information available on the website includes:
 - Chloride Fact Sheets aimed at mayors and managers, public works staff, commercial operators, and homeowners.
 - Application 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.
 - Detailed reports on the biological and chemical conditions of area waterways



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. Presentations made during the period March 1, 2014 to February 28, 2015 are listed below. Selected presentations are made available on the DRSCW website and upon request.

April 30, 2014

DRSCW White Paper Proposal: Special Conditions & Implementation Plan

Presenters: Stephen McCracken, The Conservation Foundation/ DRSCW; Nick Menninga, Downers Grove Sanitary District

June 25, 2014

Adaptive Management Plan to improve aquatic life and implement TMDLs on the main stem lower Salt Creek

Presenter: Stephen McCracken, The Conservation Foundation/ DRSCW

Development of Ammonia Mass – Balance techniques: Web based load duration curve system and lower East Branch analysis

Presenter: Lindsay Birt, Huff & Huff

August 27, 2014

Reducing Urban Phosphorus Load: Identifying Sources and Controls

Presenter: Bill Selbig, Research Hydrologist, USGS - Wisconsin Water Science Center

2012 Bioassessment Study of the Lower DuPage River Watershed

Presenter: Jennifer Hammer, The Conservation Foundation/ LDRWC

October 29, 2014

Chloride Monitoring Results and TMDL Implementation Update

Presenters: Stephen McCracken, The Conservation Foundation/ DRSCW; Dan Bounds, CDM Smith

Fawell Dam- Preliminary Assessment

Presenters: Derrick Martin, V3 Companies; Andy Selle, Inter-Fluve; Jennifer Hintze and Jessica Spurlock, DuPage County Stormwater Management

December 10, 2014

Winnetka Refined Coal Tar Ban

Presenter: Steven M. Saunders, Director of Public Works/Village Engineer, Village of Winnetka

TMDL Development for the DuPage River/Salt Creek - The Illinois Environmental Protection Agency-Watershed Management Section/Planning (TMDL) Unit

Presenter: Abel Haile, Manager, Planning (TMDL) Unit, Watershed Management Section, Bureau of Water

Other Water Quality Presentations or Workshops by the DRSCW

March 4, 2014 Continuous Dissolved Oxygen Monitoring Workshop for Participating Agencies

March 6, 2014 – National webinar for stormwater BMPs on transportation infrastructure hosted by US EPA. The Illinois Toll Highway Authority invited the DRSCW to co-present regarding the chloride offset program MOU.

March 10, 2014 – Prairie River Group of the Sierra Club. PAHs and Coal Tar sealants.

March 18, 2014 – WATERCON 2014 hosted by the Illinois Section American Water Works Association & Illinois Water Environment Association. White Paper Proposal and Chloride Offset Model.

April 2, 2014 – Illinois 2014 Rivers and Streams Meeting, Milan, IL. Causal analysis and Prioritizing Projects.

April 3, 2014 – Iowa APWA Conference – Chlorides and Watershed Management.

August 2, 2014 – Forest Preserve District of DuPage County Urban Stream Research Center Open House. Ambient and wastewater chemistry.

September 25, 2014 – Public Roads Deicing Workshop at DuPage County Division of Transportation, Wheaton, IL

October 7, 2014 – Managing Snow and Ice Control Operations, University of Wisconsin-Madison; Winter Maintenance and Environmental Impacts – Winter Maintenance and Environmental Impacts.

October 9, 2014 – Parking Lots & Sidewalks Deicing Workshop at DuPage County Division of Transportation, Wheaton, IL

October 16, 2014 – Lower DuPage River Watershed Coalition's Deicing Workshops - Regulations related to salt management, New Lenox, IL

November 6, 2014 – US EPA/ FHWA National Webinar on Chloride Management – Co-Present with DuPage County Division of Transportation, Wheaton, IL.

November 18, 2014 – Salt Spreader Calibration Workshop at DuPage County Division of Transportation, Wheaton, IL.

November 20, 2014 – Lower DuPage River Watershed Coalition – DRSCW Project Funding Proposal & Other DRSCW Activities, Plainfield, IL.

February 19, 2015 – DuPage County Environmental Summit – Current River Conditions and the Challenges we Face, Naperville, IL

February 19, 2015 - Illinois Lakes Management's Annual Conference, DRSCW Formation and Organization, DeKalb, IL

February 24, 2015 - Illinois Water Environment Association's Annual Conference, DRSCW Formation and Organization, Champaign, IL.

2. Public involvement and participation

Monitoring Activities

- Dissolved Oxygen (DO) – Ambient DO, ph, temperature and conductivity were measured at 11 sites under the continuous DO monitoring program. All DO data was collected under a Quality Assurance Plan agreed upon with IEPA¹. A map of monitoring locations is given in Map 1. Sites were maintained by DuPage County, municipal and private environmental organization staff. Sondes are supplied to the program by DuPage County Stormwater Management and MWRDGC. DuPage County Public Works provides the program with sonde calibration and maintenance, in addition to coordinating summer and winter deployment. Data collected in this report is used to develop the DRSCW Bioassessment report for the watershed. The data is shared with IEPA for development and review of the 303(d) List.
- Bioassessment – Bioassessment sampling was carried out in the East Branch DuPage River basin. A total of 35 sites (excluding DO sonde locations) were sampled for water column chemistry, sediment chemistry (at select sites), Fish IBI (Index of Biological Integrity) and macro invertebrate IBI, and Qualitative Habitat Evaluation Index (QHEI). The sediment and water column sampling parameters are listed in Table 1, sample site locations are shown in Map 1.
- Winter Chlorides – Winter chloride levels in the watersheds are monitored using continuous conductivity (a 2008 DRSCW study established a strong correlation between ambient winter conductivity and chloride levels in the Upper DuPage and Salt Creek Watersheds). Winter chloride levels were monitored at 5 locations during the winter of 2014 -15 (hourly from December 2014 to March 2015). These locations are shown on map 1. Summer chloride concentrations were gathered under the surface water monitoring program outlined under bullet two.

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
	Potassium
	Silver
	Zinc
Nutrients	Sediment Organics
Ammonia	Organochlorine Pesticides
Nitrogen/Nitrate	PCBS
Nitrogen – Total Kjeldahl	Percent Moisture
Phosphorus, Total	Semivolatile Organics
	Volatile Organic Compounds
Metals	
Cadmium	
Calcium	
Copper	
Iron	
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. Data is shared with IEPA as requested for use in the state's 303(d) list. Reports for assessments for the period 2006-2012 are available on line at <http://drscw.org/>.

¹ DO Quality Assurance Plan DRSCW 2006

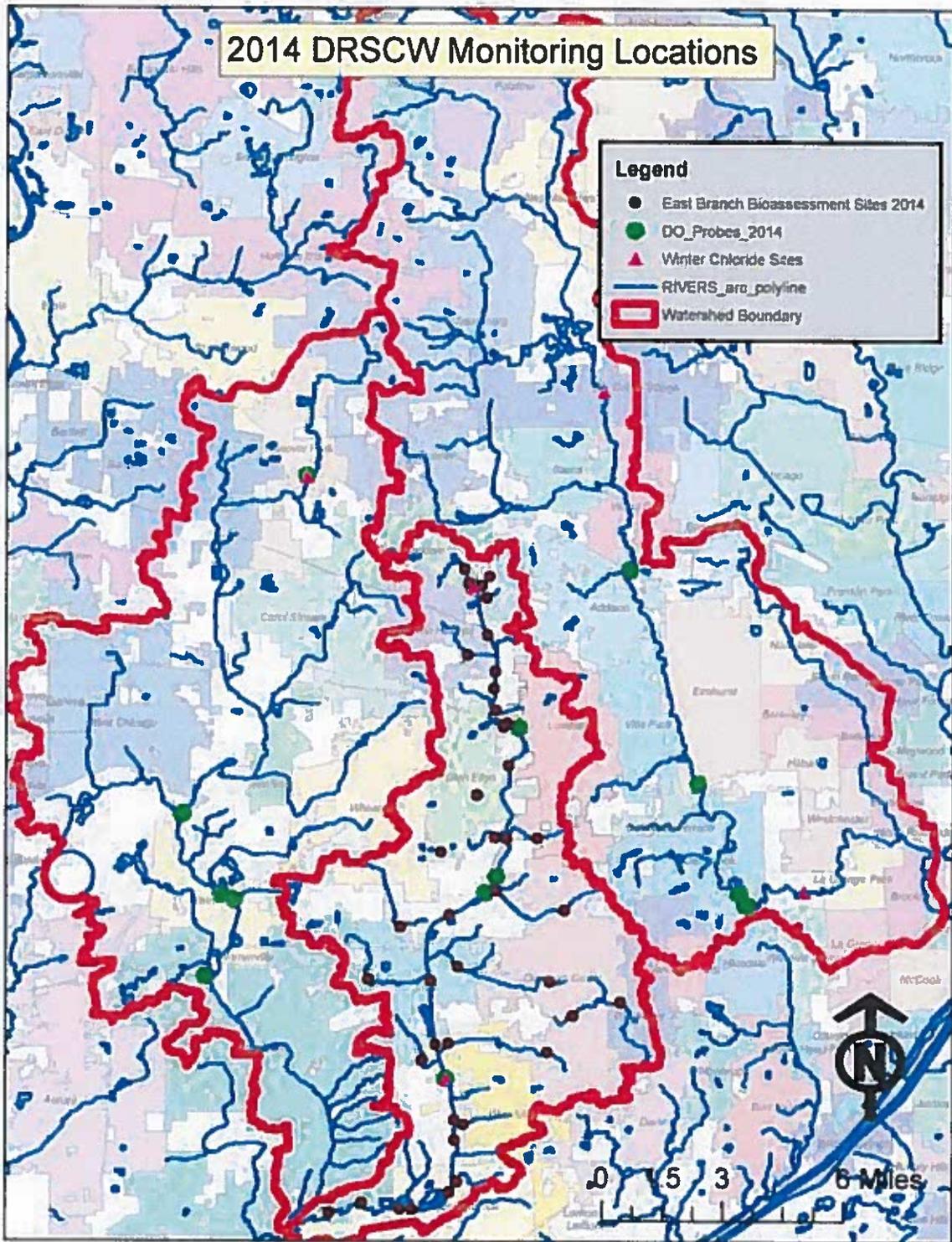
Other Public Involvement

3. Illicit discharge detection and elimination – no activities

4. Construction site stormwater runoff control - no activities

5. Post-construction stormwater management in new development and redevelopment - no activities

Map 1



6. Pollution prevention/good housekeeping for municipal operations

Three chloride reduction workshops were held during the reporting period. The Public Roads deicing workshop was held on September 25, 2014 with the following agenda:

7:00 – 7:30 Registration and Breakfast

7:30 – 7:35 Welcome - John Kawka, DuPage County DOT, Manager of Highway Operations

7:36 – 7:52 DuPage River Salt Creek Workgroup (DRSCW) Update - Stephen McCracken, TCF/ DRSCW, Director of Watershed Protection

7:53 – 8:09 Chloride Regulatory Update - Dan Bounds, CDM Smith, Principal Water Resources Engineer

8:10 – 8:45 Michigan DOT: Bounce and Scatter Study - Rich Hassenzahl, MDOT, Southwest Region Maintenance Superintendent

8:46 – 9:01 Exhibitor Briefs: New Products/ Equipment /Services

9:02 – 9:12 Break

9:13 – 9:33 Winter 2013-2014 & New Initiatives for 2014-2015 - Tim Peters, Illinois DOT, Winter Operations Engineer

9:34 – 9:59 Winter 2013-2014 Battle of the Extremes - Matt Wittum, Village of Spring Grove, Public Works Supervisor and Randy Morin, McHenry County DOT, Maintenance Supervisor

10:00 – 10:25 Winter 2013-2014 & Alternative Deicing - Stan Balicki, Village of Downers Grove, Assistant Director of Public Works

10:26 – 10:36 Break

10:37 – 11:07 Navigating the Winter with the Illinois Tollway - Scott Kapton, Illinois Tollway, Roadway Maintenance Manager

11:08 – 11:28 Baby Its Cold Out There! Products that Perform at Low Temperatures - Harvey Williams, Concept to Project Management, Owner

11:29 – 11:44 Open Forum Discussion

11:45 – 12:00 Close and Equipment Show

Less Salt, Less Money, Safe Conditions, Enough Said.

2014 Public Roads Deicing Workshop
Registration Form

Thursday, September 25, 2014
7:30 am – Noon

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

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

Agenda

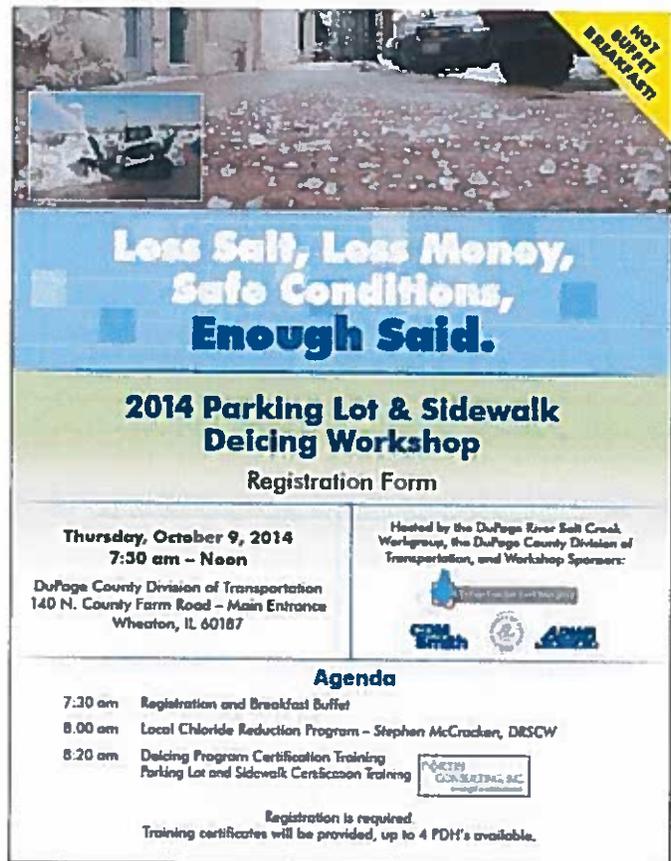
- Extreme Weather Operations
- Winter Roads Policies
- Pre-wetting: Bounce and Scatter Study, Michigan DOT
- Regulatory Updates
- Alternative Deicing Products/Procedures
- New Products/Services/Equipment
- Deicing Program Operations Updates:
 - IDOT
 - Illinois Tollway
 - McHenry County
 - DuPage County DOT
 - Downers Grove
 - Carol Stream
- DRSCW Workgroup Update
- Airport Deicing – Equipment and Procedures
- Open Forum Discussion with Presenters
- Equipment Show

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

Attendance – 121 registered, 20 others, 5 vendors = 146 total. All participants received a certificate of attendance. We received 78 feedback forms which will be used to plan future outreach strategies and workshop agendas.

The Parking Lot and Sidewalk deicing workshop was held on October 9, 2014 with the following agenda:

- 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 56 registrations, 8 others, 3 vendors = 67 total. 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.



The poster features a top photograph of a snow-covered parking lot with a yellow banner in the corner that reads "HOT BUFFET BREAKFAST". Below the photo is the slogan "Less Salt, Less Money, Safe Conditions, Enough Said." in blue and white text. The main title is "2014 Parking Lot & Sidewalk Deicing Workshop" in bold blue letters, followed by "Registration Form" in a smaller font. The event details specify "Thursday, October 9, 2014" from "7:30 am - Noon" at the "DuPage County Division of Transportation, 140 N. County Farm Road - Main Entrance, Wheaton, IL 60187". It is hosted by the "DuPage River Salt Creek Workgroup, the DuPage County Division of Transportation, and Workshop Sponsors:", with logos for "DuPage County", "DRSCW", and "Monroe Truck Equipment". The agenda lists: "7:30 am Registration and Breakfast Buffet", "8:00 am Local Chloride Reduction Program - Stephen McCracken, DRSCW", and "8:20 am Deicing Program Certification Training Parking Lot and Sidewalk Certification Training" with a logo for "FORTIN CONSULTING, INC.". A note at the bottom states "Registration is required. Training certificates will be provided, up to 4 PDH's available."

A separate hands-on spreader calibration workshop was held on November 18, 2014 from 9:00 AM – 12:00PM. This workshop was open to any operators including county, city, township, schools, park districts, libraries, etc. Hosted by DRSCW, DUDOT and Monroe Truck Equipment, this was our first time executing this kind of workshop, so it was a learning process. This workshop was offered free-of-charge and included a hot buffet breakfast, thanks to Monroe Truck Equipment. Participation included were 35 registrations, 15 staff/sponsors = 50 total.

Initially, we planned to have operators bring their own equipment, but this was not possible. Instead, we asked participants to submit information before the workshop, including: list of equipment to be calibrated; brand of the equipment; type of system (style of spreader, whether application rate is fixed or varies with vehicle speed, etc.); whether the system compensates for speed changes, etc.

The general agenda for the morning included information on calibration and why it is important then hands on demonstrations for an open loop (no compensation for changes in vehicle speed), closed loop (compensation for vehicle speed) and electronic system. Participants rotated through the "stations" in two groups.



Calibration Workshop Attendees, November 18th, Wheaton, IL