



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, 2018 To March, 2019

Permit No. ILR40 0298

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

Name: VILLAGE OF BOLINGBROOK Mailing Address 1: 375 W. BRIARCLIFF ROAD

Mailing Address 2: _____ County: Will

City: BOLINGBROOK State: IL Zip: 60440 Telephone: 630-226-8800

Contact Person: Wade A. Jacobi Email Address: wjacobi@bolingbrook.com
(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 BOLINGBROOK

THE FOLLOWING ITEMS MUST BE ADDRESSED.

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

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

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

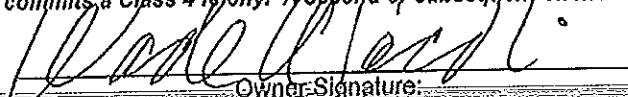
C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

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

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

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

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


Owner Signature:

05/29/19
Date:

WADE A. JACOBI

SUPERINTENDENT

Printed Name:

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

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 6/42) 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.

VILLAGE OF BOLINGBROOK

ILR40-0298

ATTACHMENT B

STATUS OF COMPLIANCE

BMP A-1: To date, brochure(s) have been developed and distributed to area business. We are also making them available to the residents at Village functions.

BMP A-3: To date, the video entitled "After the Storm" was shown on our local cable television station (BTV6). This was shown several times during the spring of 2018 and 2019.

BMP A-5: To date, we have made available to the local schools stormwater literature and a stormwater model for their use.

BMP B-1: To date, plans for the coming year include discussing the structure of this group or changing this BMP.

BMP B-5: To Date, Boy Scouts and Cub Scouts groups have participated in applying "No Dumping Drains To River" medallions to various storm sewer inlets throughout the village.

The goal for next year is to actively seek participation and plan activities to involve more of these groups in stormwater education and activities.

BMP C-1: The stormwater map has been developed and we continue to update as required using GPS and GIS technologies.

BMP C-2: Through local ordinances and the adoption of the Will County Storm Water Ordinance the Village has developed procedures and actions to protect storm water systems.

BMP C-3: To date, the Illicit Discharge Elimination Program (IDEP) has been implemented. This program will continue to improve and expand as required with annual program improvement reviews.

BMP C-9: To date, a procedure to notify local businesses about illicit discharge is in place. A computerized tracking program has been implemented and all local business and commercial locations have been added to the database.

BMP D-1: Our Engineering Division has implemented procedures for erosion control and continue to update these procedures as needed. Erosion control measures can be found in our local ordinance as well as the Will County Storm Water Ordinance.

BMP D-4: Our Engineering Division currently reviews all site plans and makes erosion control comments as required.

BMP D-5: Currently any complaints are recorded in our computerized service request system. These service requests are forwarded to the appropriate division and/or department.

BMP D-6: A review of all local ordinances for storm water has not yet occurred and is planned for the coming year.

BMP E-5: We will work with our Engineering Division to develop ordinance wording and procedures for post construction storm water controls.

BMP E-6: Our Engineering Division continues monthly inspections of construction sites for NPDES storm water controls.

BMP F-1: A program to train department staff in good housekeeping techniques has been implemented and training is conducted on an annual schedule.

BMP F-2: Street and storm sewer cleaning is an ongoing process. Streets are swept year round, weather permitting. The Storm sewer system maintenance program is a seasonal activity.

**VILLAGE OF BOLINBROOK
ILR40-0298
ATTACHMENT D
STORMWATER ACTIVITIES FOR NEXT REPORTING CYCLE**

Planned storm water activities for March 2019 to March 2020 are as follows:

<u>Activity</u>	<u>Schedule</u>
1. Distribute storm water literature to residents and business	Summer 2019
2. Develop grade school program	Summer 2019
3. Implement grade school program with local school districts	Fall 2019 & Spring 2020
4. Continue to develop programs for local youth groups, i.e.: creek clean up, storm water inlet stenciling	Spring, Summer, Fall 2019
5. Update storm sewer map within the storm sewer system with GPS technology.	Summer, Fall 2019

ATTACHMENT E

ILR40-0298

**RELIANCE ON ANOTHER GOVERNMENTAL
ENTITY**

The Village of Bolingbrook is a member of the DuPage River Salt Creek Workgroup (DRSCW) and the Lower DuPage River Watershed Coalition (LDRWC) and as a member we will utilize any Public Education and Outreach, Public Involvement and Participation, Pollution Prevention Activities in which the DRSCW and LDRWC participates. This is in combination with our own activities. SEE ATTACHED INFORMATION FROM THE DRSCW.

**DRSCW ILR40 Activities
March 2018 – February 2019**

PART I. COVERAGE UNDER GENERAL PERMITS ILR40

Not applicable to the work of the DRSCW.

PART II. NOTICE OF INTENT (NOI) REQUIREMENTS

Not applicable to the work of the DRSCW.

PART III. SPECIAL CONDITIONS

Not applicable to the work of the DRSCW.

PART IV. STORM WATER MANAGEMENT PROGRAMS A. Requirements

Not applicable to the work of the DRSCW.

B. Minimum Control Measure

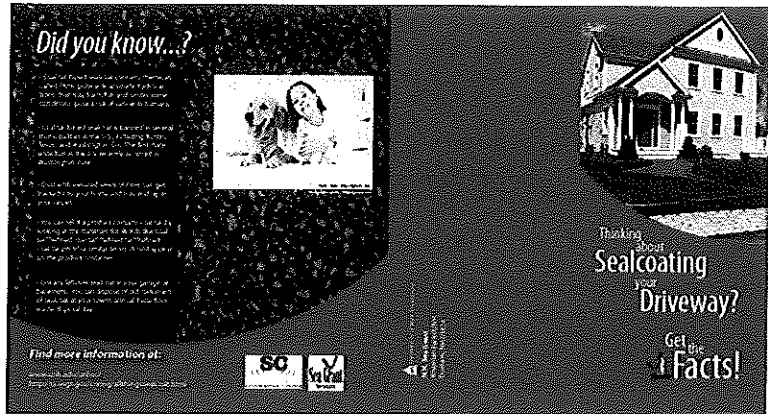
1. Public Education and Outreach on Stormwater Impacts

DRSCW outreach activities for the year ending 2018 included:

- The DRSCW website was maintained during the reporting period and periodically updated with presentations and material (www.drscw.org).
- A searchable database with information on local aquatic biodiversity (IBIs), habitat (QHEI), and sediment and water column chemistry was maintained and periodically updated.
- Public information available on the website includes:
 - ↗ Chloride Fact Sheets aimed at mayors and managers, public works staff, commercial operators, and homeowners.
 - ↗ Model salt Storage and Handling Ordinances and Policies.
 - ↗ Model Facilities Plan for Snow and Ice Control.
 - ↗ A fact sheet summarizing alternative deicing products.
 - ↗ Information of effective operating parameters for commonly used anti icing compounds.
 - ↗ Parking lots chloride application rate guidance example sheet and aide memoire.

↗ 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).

↗ 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 public is welcome to attend. Presentations made during the period March 1, 2018 to February 28, 2019 are listed below. Selected presentations are made available on the DRSCW website and upon request.

April 25, 2018 – Low Level Phosphorus Experience in Wisconsin Provides Valuable Data in Developing P-Removal Feasibility Studies for Bartlett and Bensenville. Presenter: Troy Stinson and Mike Ott, Strand Associates

April 25, 2018 – Cold Temperature Chloride Toxicity Update. Presenter: Jim Huff, Huff & Huff, Inc. A subsidiary of GZA GeoEnvironmental, Inc.

June 27, 2018 – East Branch DuPage River and the Morton Arboretum. Presenter: Kurt Dreisilker, Head of Natural Resources at The Morton Arboretum

August 29, 2018 – Results of the 2016 Biological and Water Quality study of the Salt Creek Watershed. Presenter: Chris Yoder, Research Director, Midwest Biodiversity Institute

August 29, 2018 – DuPage River Feasibility Study. Presenter: Erin Maloney and Imad Samara, Army Corps of Engineers

October 31, 2018. Reducing Salt Use at the Fox Valley Park District (FVPD). Presenter: Jimmy Schmidt, West Maintenance Supervisor, Fox Valley Park District

October 31, 2018. Alternative Cutting Edges; Improving Mechanical Snow Removal. Presenter: Scott Weber, Streets and Forestry Supervisor, Village of Hanover Park

October 31, 2019. Water Quality Improvement Grant. Presenter: Mary Beth Falsey, Water Quality Supervisor, DuPage County Stormwater Management

December 12, 2018. Graue Mill Dam, TMDLs and Aquatic life. Presenter: Deanna Doohaluk and Stephen McCracken, The Conservation Foundation/DuPage River Salt Creek Workgroup

Other Water Quality Presentations or Workshops by the DRSCW

April 17, 2018 – IWEA Watershed Management Track (Springfield, IL). Nutrient Trading Framework Concepts. Presenter: Deanna Doohaluk, The Conservation Foundation/DuPage River Salt Creek Workgroup

April 26, 2018 – Sweet Water Clean Rivers Clean Lake Conference (Milwaukee, WI). Developing a Collaborative, Data-Driven Trading Framework in the DuPage River Salt Creek Watersheds. Presenter: Deanna Doohaluk, The Conservation Foundation/DuPage River Salt Creek Workgroup

April 26, 2018 – League of Woman Voters (Elmhurst, IL). What's Up With Water in Elmhurst?"- A discussion of public water supply, storm water and water quality matters in Salt Creek. Presented by Dennis Streicher, Sierra Club and DuPage River Salt Creek Workgroup Executive Board Member

May 14, 2018 – CSWEA Annual Meeting (Oak Brook, IL). Collaborative, Data-Driven Trading Framework in the DuPage River Salt Creek Watersheds. Presenter: Deanna Doohaluk, The Conservation Foundation/DuPage River Salt Creek Workgroup

May 14, 2018—CSWEA Annual Meeting (Oak Brook, IL). Watershed Wide Adaptive Implementation for meeting Biodiversity Goals of the Clean Water Act. Presenter: Stephen McCracken, The Conservation Foundation/DuPage River Salt Creek Workgroup

May 14, 2018 – CSWEA Annual Meeting (Oak Brook, IL). Panel discussion on watershed management. Presenter: Deanna Doohaluk and Stephen McCracken, The Conservation Foundation/DuPage River Salt Creek Workgroup and Nick Menninga, Downers Grove Sanitary District and DuPage River Salt Creek Workgroup Executive Board Member

June 8, 2018 – ASCE Sustainability Conference (Downers Grove, IL). Watershed Wide Adaptive Implementation for meeting Biodiversity Goals of the Clean Water Act. Presenter: Stephen McCracken, The Conservation Foundation/DuPage River Salt Creek Workgroup

June 12, 2018 – Upper Mississippi River Basin Association Water Quality Task Force (UMRBAWQTF) Webinar. Chloride Management in DRSCW waterways. Presenter: Stephen McCracken, The Conservation Foundation/DuPage River Salt Creek Workgroup

September 19, 2018 – Trout Unlimited (Oak Brook, IL). Presenter: Stephen McCracken, The Conservation Foundation/DuPage River Salt Creek Workgroup

September 29, 2018 – New Jersey Water Monitoring Council (webinar). Chloride Management in the DRSCW area. Presenter: Stephen McCracken, The Conservation Foundation/DuPage River Salt Creek Workgroup

October 17, 2018 – Kane County Chloride Management Workshop. Chloride Trends and Impacts. Presenter: Stephen McCracken, The Conservation Foundation/DuPage River Salt Creek Workgroup

November 14-15, 2018 – Winter Preparedness Snow and Ice Conference - The Basics of Snow and Ice. Various presentations on chloride management. Presenter: Stephen McCracken, The Conservation Foundation/DuPage River Salt Creek Workgroup

February 13, 2019 – 2019 Illinois Wastewater Professionals Conference (Champaign, IL). NARP Panel. Presenter: Deanna Doohaluk and Stephen McCracken, The Conservation Foundation/DuPage River Salt Creek Workgroup

February 13, 2019 – 2019 Illinois Wastewater Professionals Conference (Champaign, IL). Beyond Steam Bank Stabilization. Presenter: Stephen McCracken, The Conservation Foundation/DuPage River Salt Creek Workgroup

February 21, 2019 – DRWW Annual Meeting (Libertyville, IL). NARP Work Plan. Presenter: Deanna Doohaluk, The Conservation Foundation/DuPage River Salt Creek Workgroup

2. Public Involvement and Participation – no activities

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

6. Pollution Prevention/Good Housekeeping for Municipal Operations

Chloride Questionnaires

The DRSCW has attempted to track adoption of sensible salting BMPs in the program area since 2007. Monitoring ambient chloride concentrations has proven an imperfect metric for tracking efficiency trends in winter salt use. Tracking target BMP adoption in the program area provides opportunities to evaluate the impacts of the chloride management workshops; identify material for future workshops and form suppositions about salt use per unit of service expended inside the program area relative to 2006 levels.

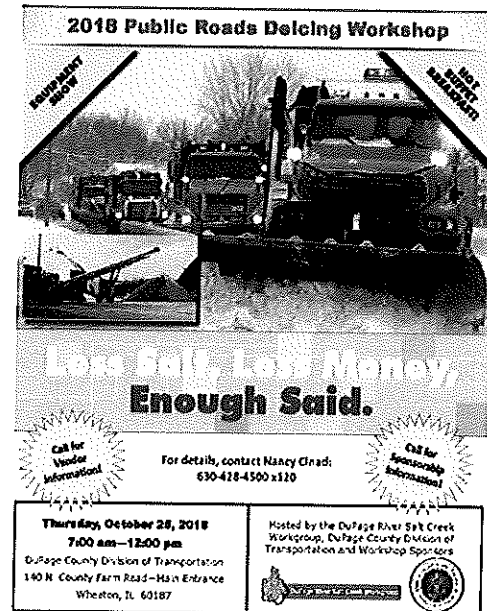
In 2007, 2010, 2012, 2014, 2016, and 2018, the DRSCW distributed a questionnaire to approximately 80 municipal highway operations and public works agencies to obtain information about deicing practices throughout the program area. The DRAFT 2018 Deicing Program Summary Report is include in attachment A.

Chloride Reduction Workshops

Two chloride reduction workshops were held during the reporting period ending March 2019.

The **Public Roads Deicing Workshop** held at DuPage County DOT on October 25, 2018 with the following agenda:

- 7:00 - 7:30 Registration and Breakfast
- 7:30 -7:35 Welcome and Housekeeping- *Jeff Peroni, Highway Maintenance Supervisor, DuPage County Department of Transportation*
- 7:35 – 7:55 Visualizing the Movement of Chloride in the Shallow Aquifers of McHenry County
Daniel Abrams, Groundwater Flow Modeler, Illinois State Water Survey
- 7:55 – 8:20 Premium and Flexible Plow Blades for Effective Winter Operations, *Gardi Willis, Managing Director, Kueper North America, LLC*
- 8:20 – 8:45 Alternative Cutting Edges, *Scott Weber, Streets and Forestry Supervisor, Village of Hanover Park*
- 8:45 –8:50 Sponsor Overview
- 8:50 – 9:05 BREAK
- 9:05– 10:10 Tiered Road Use Panel: *Chris Drey, Superintendent of Public Works, Village of Shorewood; Jason Pauling, Street Supervisor, Village of Carol Stream; Joseph Dragovich, Roadway District 1 Manager, Illinois Tollway; Moderated by Scott Weber, Streets and Forestry Supervisor, Village of Hanover Park*
- 10:10 – 10:35 Chlorides, the Corrosion Challenge, *Charles (Chuck) Lawrence, Independent Consulting Engineer*
- 10:35 – 10:55 Chloride Toxicity: Reviewing the State’s Water Quality Standard, *Stephen McCracken, The Conservation Foundation/DRSCW*
- 10:55 – 11:10 BREAK
- 11:10 – 11:30 Practicable Direct Liquid Application, *Craig Eldred, Public Services Director, City of Waconia,*
- 11:30 – 11:45 Wrap Up, Evaluations, Equipment Show

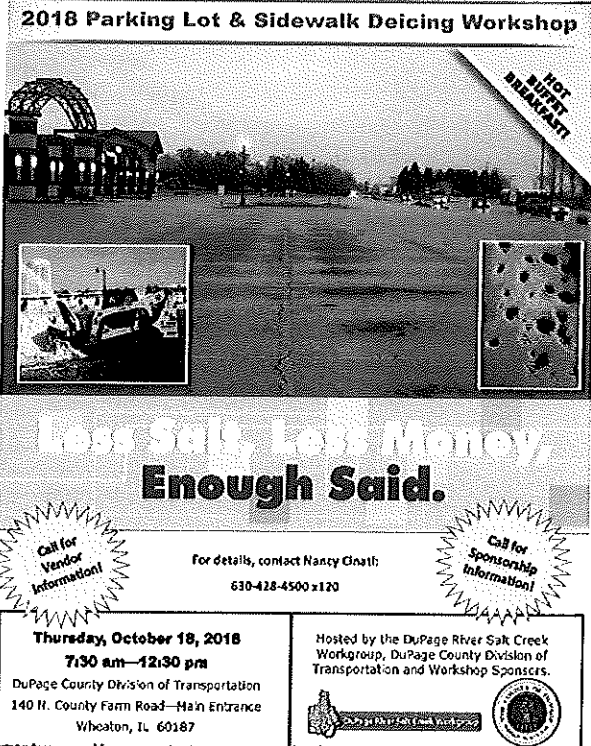


Attendance – 147 registered, 13 presenters/staff, 7 committee members/guests; 7 sponsors/exhibitors = 174 total. All participants received a certificate of attendance. We received 59 feedback forms from participants. Attachment B includes a list of all registrants and the affiliation for the 2018 Public Roads Deicing Workshop.

The **Parking Lots and Sidewalks Deicing Workshop** was held at DuPage County DOT on October 18, 2018 with the following agenda:

- Ambient conditions and regulatory update: Stephen McCracken, The Conservation Foundation/DRSCW
- Information on developing efficient and cost-effective snow fighting operations, appropriate product selection, equipment selection, application rates, equipment calibration, ambient conditions monitoring. Presenters: Connie Fortin, Fortin Consulting and Chris Walsh, (former Public Works Director with City of Beloit, WI)
- Test on workshop materials.

Attendance - 82 registrations, 5 presenters/staff, 2 exhibitors/staff = 89 total. All participants received a training certificate and participants who successfully completed the test are recognized on DuPage County Stormwater Management's Water Quality – Pollution Prevention/Good Housekeeping web page. The DRCCW received 68 program evaluations from participants. Attachment include Cs a list of all registrants and the affiliation for the 2018 Parking Lots and Sidewalks Deicing Workshop.



2018 Parking Lot & Sidewalk Deicing Workshop

Hot Lunch Break! 11:30am - 12:30pm

Less Salt, Less Money, Enough Said.

Call for Vendor Information

For details, contact Nancy Gnaht: 630-428-4500 x120

Call for Sponsorship Information

Thursday, October 18, 2018
7:30 am - 12:30 pm
DuPage County Division of Transportation
140 N. County Farm Road—Main Entrance
Wheaton, IL 60187

Hosted by the DuPage River Sak Creek Workgroup, DuPage County Division of Transportation and Workshop Sponsors.

Ambient Winter Chloride Monitoring

Ambient monitoring of winter conductivity was carried out at five (5) locations in the program area in 2017-2018 (3 sites monitored by the DRSCW and 2 site monitored by MWRD). Conductivity is used to calculate chloride concentrations based on a relationship established by the DRSCW in 2007. Annual chloride concentrations for the winter months from 2006-2018 for 4 of the sites are depicted in Figure 1-4.

Figure 1. Annual chloride concentrations - winter months (2006-2018) for Salt Creek at Wolf Road.

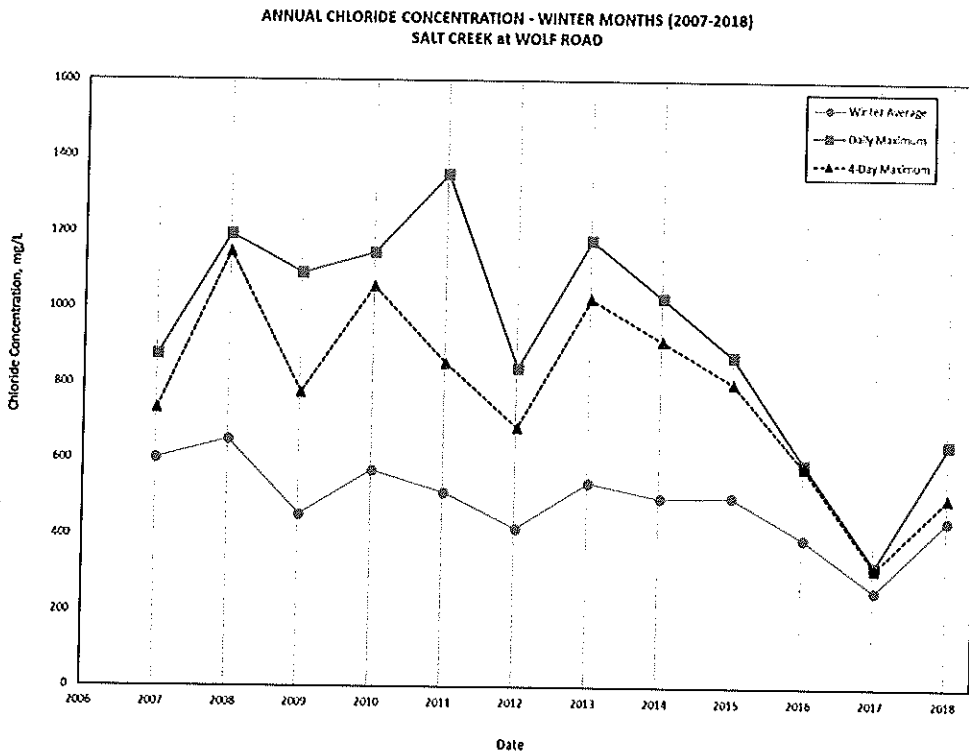


Figure 1. Annual chloride concentrations - winter months (2006-2018) for Salt Creek at Busse Woods Main Dam.

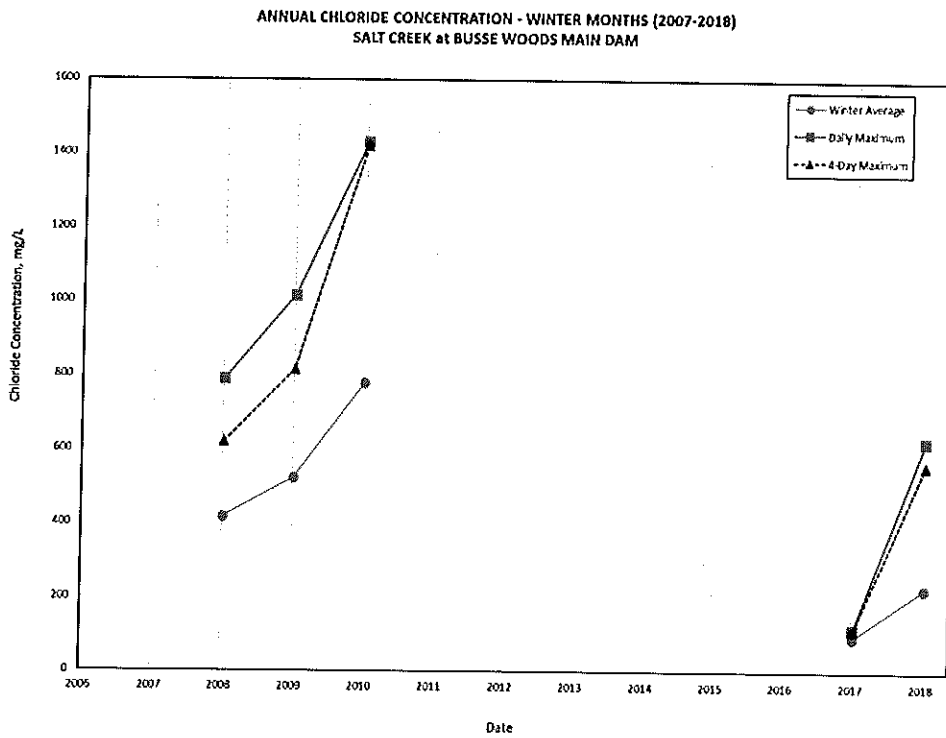


Figure 2. Annual chloride concentrations - winter months (2006-2018) for East Branch at Hobson Road.

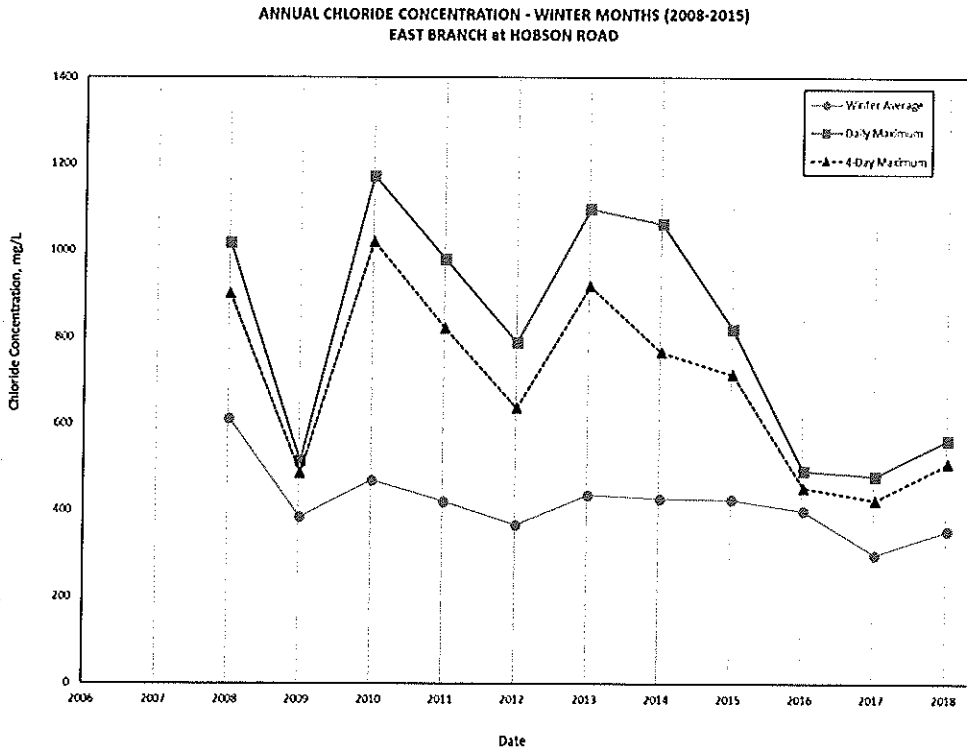
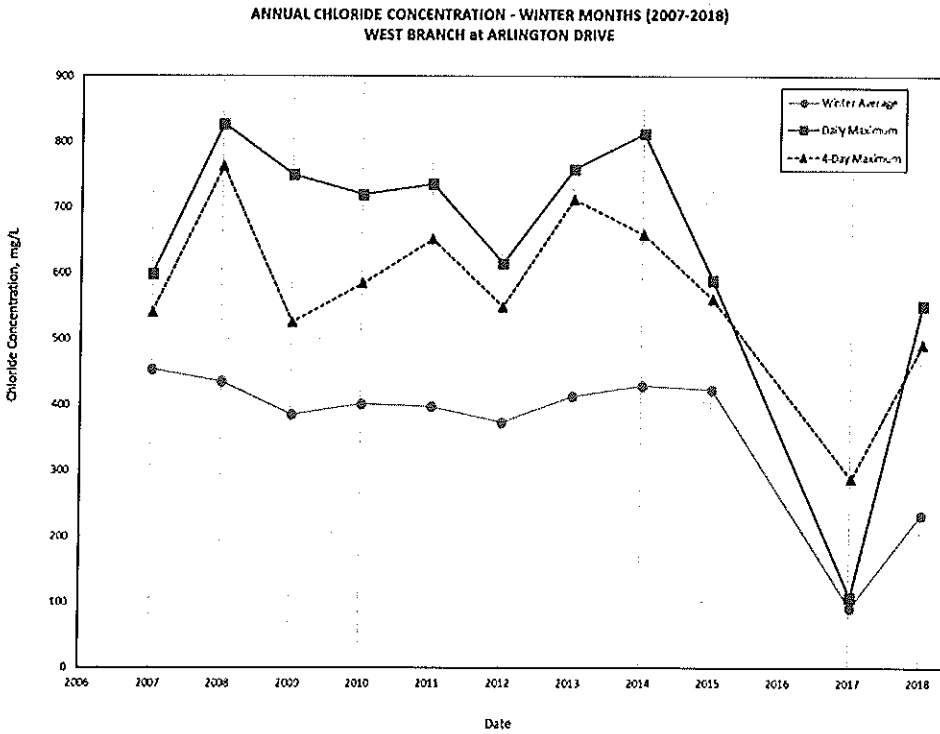


Figure 3. Annual chloride concentrations - winter months from 2006-2018 for West Branch at Arlington Drive.



VILLAGE OF BOLINGBROOK
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ATTACHMENT F

Village Projects 2018 - 2019

- Various road resurfacing and patching projects
- St. Andrew Woods subdivision retaining wall replacement
- Annual maintenance contracts: sidewalks, road striping, and roads and streets crack filling