

**Director**  
Sean P. Dorsey



**Deputy Director**  
Jason H. Leib

**Mount Prospect Public Works Department**

1700 W. Central Road, Mount Prospect, Illinois 60056-2229

May 30, 2015

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

Re: NPDES Phase II – Year 11 Annual Report  
Village of Mount Prospect  
ILR400393

To Whom it May Concern:

Please find enclosed a completed IEPA Annual Facility Inspection Report for Storm Water Discharges from Municipal Separate Storm Sewer Systems (MS4) for Mount Prospect with supplemental information.

If you should have any questions or require additional information, please call our Environmental Consultant, Ms. Marcy Knysz at 847-732-5172.

Sincerely,  
Mount Prospect Public Works

  
Sean P. Dorsey  
Director of Public Works

cc: Marcy Knysz, Cardno



# 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 0393

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

Name: Mount Prospect Mailing Address 1: 1700 West Central Road

Mailing Address 2: \_\_\_\_\_ County: Cook

City: Mount Prospect State: IL Zip: 60056 Telephone: 847-870-5640

Contact Person: Sean P. Dorsey Email Address: SDorsey@mountprospect.org  
(Person responsible for Annual Report)

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

Cook County  
Mount Prospect

#### 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.

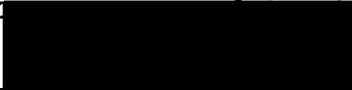
C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

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 3 felony. A subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))**

  
Owner Signature:

Sean P. Dorsey

Printed Name:

6/1/2015  
Date:

Director of Public Works

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.

# **MS4 Annual Facility Inspection Report**

**Illinois Environmental Protection Agency  
National Pollutant Discharge Elimination System Phase II**

**Permit Year 12: March 2014 to February 2015**

***Village of Mount Prospect***

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## Part A. Village Changes to Best Management Practices, Year 12

Information regarding the status of all of the BMPs and measurable goals described in the Village's SWMP is provided in the following table.

**Note:** X indicates BMPs that were implemented in accordance with the Village's draft SWMP  
 ✓ indicates BMPs that were changed during Year 12

Year 12 Village of Mount Prospect	
<b>A. Public Education and Outreach</b>	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
	A.3 Public Service Announcement
X	A.4 Community Event
	A.5 Classroom Education Material
X	A.6 Other Public Education
<b>B. Public Participation/Involvement</b>	
	B.1 Public Panel
X	B.2 Educational Volunteer
	B.3 Stakeholder Meeting
X	B.4 Public Hearing
	B.5 Volunteer Monitoring
	B.6 Program Coordination
X	B.7 Other Public Involvement
<b>C. Illicit Discharge Detection and Elimination</b>	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
X	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
X	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 12 Village of Mount Prospect	
<b>D. Construction Site Runoff Control</b>	
X	D.1 Regulatory Control Program
	D.2 Erosion and Sediment Control BMPs
	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
	D.6 Site Inspection/Enforcement Procedures
X	D.7 Other Construction Site Runoff Controls
<b>E. Post-Construction Runoff Control</b>	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
	E.7 Other Post-Const Runoff Controls
<b>F. Pollution Prevention/Good Housekeeping</b>	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
	F.3 Municipal Operations Storm Water Control
X	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
X	F.6 Other Municipal Operations Controls

No changes were made to the Best Management Practices described in the Village's SWMP during Year 12.

## **Part B. Village Status of Compliance with Permit Conditions, Year 12**

### **Stormwater Management Activities, Year 12**

The stormwater management activities that the Village performed during Year 12 and the status of each of the BMPs and measurable goals described in the Village's SWMP, as of the end of Year 12, are described below. Tracking forms are used to track the implementation of the BMPs described in the Village's SWMP.

#### **A. Public Education and Outreach**

The Village is committing to implementing the Public Education and Outreach component of its Storm Water Management Program. The Public Education and Outreach program includes the distribution of educational material to the community or conducting equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants to storm water runoff. The Village commits to implementation of BMPs as described below.

##### **A.1 Distribute Paper Material**

The Village makes various informational materials available to its residents. Topics include information on recycling, SWANCC, solid waste services, computer & electronics recycling, leaf collection, battery recycling, information on trees, catch basin care, pollutants - sources and impacts and prescription drug disposal.

*Measurable Goal(s): Continue existing practice. Implement and track progress of BMPs as described in the SWMP.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

##### **A.4 Community Event**

The Village hosts several community events such as Arbor Day, Earth Day and a Public Works Open House.

*Measurable Goal(s): Continue existing practice. Implement and track progress of BMPs as described in the SWMP.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

##### **A.6 Other Public Education**

The Village has a Public Works Facility Tour open to school children to teach them about Public Works services and provide education on storm water pollution prevention control.

*Measurable Goal(s): Continue existing practice. Implement and track progress of BMPs as described in the SWMP.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

## **B. Public Participation/Involvement**

### **B.2 Educational Volunteer**

The Village has an education volunteer program in which public works staff educates children's' classes and multi-family units owners on pollution prevention issues as requested.

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

### **B.4 Public Hearing**

The Village holds a public meeting in which the Public Works department provides an annual report to the board and public on storm water management.

*Measurable Goal(s): Continue existing practice Implement, and track progress, of BMPs as described in the SWMP.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

### **B.7 Other Public Involvement**

Other public involvement the Village has includes:

- Two residential recycling programs the first was established to allow residents to recycle materials at no additional cost. The second is a commercial recycling program established for local businesses to reduce their contribution to landfills.
- The Village has hosts a "coffee with the council" meeting which provides an open forum to residents to discuss any issues with the Village council on a monthly basis.
- The Village hosts a tree planting program in which residents can request new trees for the parkway and share in the cost.

*Measurable Goal(s): Continue existing practice Implement, and track progress, of BMPs as described in the SWMP.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

## **C. Illicit Discharge Detection and Elimination**

The Village of Mount Prospect will implement program activities related to the Illicit Discharge Detection and Elimination (IDDE) minimum control. The requirements of an IDDE program include the following:

- Develop a storm sewer system map that shows the locations of all outfalls and the names and locations of all water bodies that receive discharges from those outfalls.
- Prohibit non-storm water discharges into the storm sewer system and implement

- appropriate enforcement procedures and actions.
- Develop and implement a plan to detect and address illicit discharges into the storm sewer system.
  - Educate public employees, businesses and general public of hazards associated with illegal discharges and improper disposal of waste.
  - Identify the appropriate best management practices and measurable goals

### **C.1 Storm Sewer System Map**

The Village prepared an outfall map to allow for tracking of dry weather flow inspections and outfall maintenance.

*Measurable Goal(s): Review and update as needed. Implement, and track progress, of BMPs as described in the SWMP.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP. The Village has continued to modify and update the storm sewer atlas as further information is gathered to provide more detail and as new development occurs.**

### **C.2 Regulatory Control Program**

The Village has an Illicit Discharge Ordinance that is reviewed and updated due to illegal and/or illicit discharges to storm sewer systems or water courses.

*Measurable Goal(s): Review and update as needed. Implement, and track progress, of BMPs as described in the SWMP.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

### **C.3 Detection/Elimination Prioritization Plan**

The Village currently implements the Illicit Detection/Elimination Plan which provides the Village with requirements to reported illicit discharges.

*Measurable Goal(s): Maintain current program. Implement and track progress of BMPs as described in the SWMP.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

### **C.4 Illicit Discharge Tracing Procedures**

The Village regularly inspects storm sewers for illicit discharges. These inspections occur during regular operations and maintenance and also during new construction. Storm sewers are taped on a 10 year cycle.

*Measurable Goal(s): Continue existing program. Implement and track progress of BMPs as described in the SWMP.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

#### **C.5 Illicit Source Removal Procedures**

The Village notifies the Metropolitan Water Reclamation District (MWRD) of illegal discharge.

*Measurable Goal(s): Maintain current program. Implement and track progress of BMPs.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

#### **C.7 Dry Weather Screening**

Dry weather screenings are conducted twice a year.

*Measurable Goal(s): Maintain existing practice. Implement and track progress of BMPs.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

#### **C.9 Public Notification**

Promote call-in procedures for observed illicit discharges in the Village newsletter as it was not previously well publicized.

*Measurable Goal(s): Maintain existing practice. Implement and track progress of BMPs.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

### **D. Construction Site Runoff Control**

#### **D.1. Regulatory Control Program**

The Village educates stakeholders (developers and contractors) on the current codes on the village website. Guidance reference materials are available upon request.

*Measurable Goal(s): Maintain current program to educate stakeholders.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

#### **D.4 Site Plan Review Procedures**

The Village implements a Storm Water Runoff Site Review. Current practices include reviewing construction plans and erosion control is required on all projects. Code variances require a public hearing. All staff is trained for plan reviews.

*Measurable Goal(s): Maintain current plan review procedures and staff.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

**D.5 Public Information Handling Procedures**

Installation/Inspection Training: Plan reviewers are licensed PE's with professional training in NPDES requirements. The plan reviewer is the direct supervisor for the project inspector who performs the field visits on the construction sites. Site inspection and enforcement: construction sites are currently inspected once a week or more as needed as those that do not comply are shut down.

*Measurable Goal(s): Continue current training and inspection procedures.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

**D.7 Other Construction Site Runoff Controls**

The Village implements Utility Construction Parkway Restoration as required by Village code. Requirements are strictly enforced.

*Measurable Goal(s): Continue existing utility work permit program.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

**E. Post-Construction Runoff Control**

**E.2 Regulatory Control Program**

The Village educates stakeholders (developers and contractors) on the current codes on the village website. Guidance reference materials are available upon request.

*Measurable Goal(s): Maintain current program to educate stakeholders.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

**E.3 Long Term O&M Procedures**

The Village implements a structural BMP maintenance ordinance. The ordinance addresses long term structural BMP maintenance.

*Measurable Goal(s): Maintain current ordinance and enforcement procedures.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

#### **E.4 Pre-Const Review of BMP Designs**

The Village reviews proposed BMP designs. Permanent storm water BMPs required on construction projects and plan are currently reviewed. Any code variances require a public hearing. The Village Staff is fully trained.

*Measurable Goal(s): Maintain current review practices.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

#### **E.5 Site Inspections During Construction**

BMP installation and Inspection Training: The Village staff is trained as new requirements for construction are implemented. Site inspection and enforcement: The Village staff currently inspects construction sites and shuts down projects that do not meet code.

*Measurable Goal(s): Maintain current training practices and continue existing inspection and code enforcement program.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

#### **E.6 Post-Construction Inspections**

The Village performs retention/detention pond inspections twice a year.

*Measurable Goal(s): Inspect detention/retention ponds twice a year.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

### **F. Pollution Prevention/Good Housekeeping**

#### **F.1 Employee Training Program**

The Village provides several employee training programs for its staff.

*Measurable Goal(s): Continue practice. Implement and track progress of BMPs.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

#### **F.2 Inspection and Maintenance Program**

The Village inspects detention ponds and outfall structures twice annually and after rain events. Detention ponds are cleaned after the inspections. All structures are repaired as necessary. Catch basins/inlets are also inspected and cleaned on a 7 year rotational cycle during road maintenance operations.

*Measurable Goal(s): Maintain current practices. Implement and track progress of BMPs.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

**F. 4 Municipal Operations Waste Disposal**

The Village participates in street cleaning materials disposal. Materials are placed in a dumpster that is hauled off to a land fill. In addition to street cleaning, the Village participates in a leaf collection and disposal program. Leaf material is taken to an EPA transfer station for final disposal.

*Measurable Goal(s): Maintain waste current disposal practices. Implement and track progress of BMPs.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

**F.6 Other Municipal Operations Controls**

The Village has several municipal operations controls including:

*Covered Landscape Material Storage* – Sand, dirt, and wood chips are permanently covered storage facilities

*Street Sweeping* – performed once every three weeks

*Contained Hazardous Material Storage* – all hazardous materials are stored in sealed containers and used materials are picked up by Safety Kleen inc. for recycling

*Covered Material Storage* – Salt, sand, stone, and gravel are stored in permanently covered storage facilities

*Controlled Application of Pesticides and Herbicides by the department of Agriculture trained and certified licensed applicators on Village facilities* – Proper application of herbicides and pesticides is necessary to minimize the potential of illicit discharge of these materials into local streams.

*Measurable Goal(s): Continue practices. Implement and track progress of BMPs.*

**The Village continues to implement the BMP described above and outlined in the Village's SWMP.**

**Stormwater Management Program Assessment, Year 12**

The Village conducted an overall assessment of the Village's stormwater management program and the appropriateness of its BMPs. This was conducted by a series of internal meetings with various department staff. Revisions to the SWMP based on the internal review are currently underway.

## **Part C. Village Information and Data Collection Results, Year 12**

### **Annual Monitoring and Data Collection, Year 12**

Information and data that the Village collected to meet the annual monitoring requirement of General NPDES Permit No. ILR40 are summarized below.

Water quality sampling was conducted within the receiving waters, both upstream and downstream of the Village's stormwater discharges. A total of 8 locations are included in the Village's annual monitoring program. At these locations, the physical characteristics of the sampling point were observed and water quality samples (i.e., grab samples) were collected. Collected water quality samples were tested for:

- Ammonia
- Chloride
- Fluoride
- Dissolved Oxygen
- Biochemical Oxygen Demand
- Phenolics
- Total Dissolved Solids
- Total Suspended Solids
- Total Kjeldahl Nitrogen
- Phosphorus (Total)
- Potassium
- Temperature
- Conductivity
- pH

### **Permit Compliance: Tracking and Data Collection, Year 12**

A summary of activities performed in accordance with the Village's SWMP are presented in the following pages.

# Public Education and Outreach

# Village of Mount Prospect

<u>Entry Type</u>	<u>Material</u>	<u>Date</u>	<u>Target Audience</u>	<u>Description</u>
A.1-Distributed Paper Material			Residents	Pollutants: Their Sources and Impacts
A.7-Other Public Education	Newsletter		Residents	Information on recycling, SWANCC, solid waste services, computer & electronics recycling, leaf collection, battery recycling, information on trees, catch basin care, pollutants - sources and impacts and prescription drug disposal.
A.1-Distributed Paper Material			Residents	SWANCC Prescription Drugs/Sharps Disposal Program
A.1-Distributed Paper Material			Residents	Compact Fluorescent Light (CFL) Bulb Recycling Program
A.1-Distributed Paper Material			Residents	Solid Waste Services Brochure
A.1-Distributed Paper Material			Residents	The Trees of Mount Prospect
A.1-Distributed Paper Material			Residents	SWANCC Community Awareness Information
A.1-Distributed Paper Material			Residents	SWANCC Green Pages
A.1-Distributed Paper Material			Residents	Solid Waste - Additional Recycling Programs
A.1-Distributed Paper Material			Residents	Electronics Recycling Program Informational Flyer
A.4-Community Event		4/22/2014	Residents	Earth Day Event at Friendship Park Conservatory
A.4-Community Event		4/25/2014	Residents	Arbor Day event at Lions Park Elementary School
A.4-Community Event		4/25/2014	Residents	Arbor Day Event at St. Emily School
A.4-Community Event		5/10/2014	Residents	Coffee With Council
A.4-Community Event		5/17/2014	Residents	Mount Prospect Public Works Open House.

**Entry Type**

**Material**

**Date**

**Target Audience**

**Description**

A.4-Community Event

9/13/2014

Residents

Coffee With Council

# Public Participation/Involvement

# Village of Mount Prospect

<u>Entry Type</u>	<u>Date</u>	<u>Description</u>	<u>Location</u>
B.3-Stakeholder Meeting	8/14/2014	Watershed Planning Council of the Lower Des Plaines Tributaries Regular Meeting	Northlake City Hall
B.3-Stakeholder Meeting	5/8/2014	Watershed Planning Council of the Lower Des Plaines Tributaries Regular Meeting	Northlake City Hall
B.7-Other Public Involvement		Parkway Tree Planting Program - 937 Trees	

# Illicit Discharge Detection and Elimination

# Village of Mount Prospect

<u>Entry Type</u>	<u>Location Description</u>	<u>Date</u>	<u>Reason For Inspection</u>
C.7-Visual Dry Weather Screening	Inspection of all 128 storm sewer outfalls	7/29/2014	Annual Inspection
C.9-Public Notification	No illegal dumping calls during permit period.		

# Construction Site Runoff Control

# Village of Mount Prospect

<u>Entry Type</u>	<u>Project Name</u>
D.1-Regulatory Control Program	Randhurst Village
D.1-Regulatory Control Program	Mount Prospect Horizon
D.1-Regulatory Control Program	Forestview School
D.1-Regulatory Control Program	CVS 800 Bierman Court Parking Lot
D.1-Regulatory Control Program	Blue Sky
D.1-Regulatory Control Program	1100 South Elmhurst Road
D.1-Regulatory Control Program	Black Cow Restaurant
D.1-Regulatory Control Program	Cereal Byproducts

# Post-Construction Site Runoff Control

# Village of Mount Prospect

<u>Entry Type</u>	<u>BMP Description</u>
E.6-Post-Construction Inspections	61 Detention/Pond/Retention Inspections.

# Pollution Prevention/Good Housekeeping

# Village of Mount Prospect

<u>Entry Type</u>	<u>Description</u>	<u>Date</u>	<u>Amount Disposed or Applied</u>
F.4-Municipal Operations Waste Disposal	Hazardous Waste Removal - CFL/Flourescent Disposal		41 boxes
F.4-Municipal Operations Waste Disposal	Spoils removal on-going.		
F.6-Other Municipal Operations Controls	Weekly street sweeping March through September.		
F.5-Flood Management/Assess Guidelines	88 storm related service requests.		
F.6-Other Municipal Operations Controls	Storm sewer maintenance and repairs. 456 work orders.		
F.4-Municipal Operations Waste Disposal	Hazardous Waste Removal - Prescription Disposal		882 pounds
F.4-Municipal Operations Waste Disposal	Hazardous Waste Removal - Electronics Recycling		104,235 pounds
F.4-Municipal Operations Waste Disposal	Leaf Removal October and November 2014		14,601 cubic yards
F.4-Municipal Operations Waste Disposal	Hazardous Waste Removal - Sharps		33 containers
F.4-Municipal Operations Waste Disposal	Residential Recycling	3/1/2014	809,240 pounds recycled
F.2-Inspection and Maintenance Program	Annual Inspection and Assessment for Village Public Works Facility	4/1/2014	
F.4-Municipal Operations Waste Disposal	Residential Recycling	4/1/2014	966,120 pounds recycled
F.1-Employee Training Program	Safety Meeting - Municipal Stormwater Pollution Prevention.	4/2/2014	
F.2-Inspection and Maintenance Program	Annual Inspection and Assessment for Village Public Works Facility	5/23/2014	
F.4-Municipal Operations Waste Disposal	Residential Recycling	6/1/2014	963,040 pounds recycled
F.1-Employee Training Program	APWA Concrete Solutions to Stormwater Runoff	6/10/2014	
F.1-Employee Training Program	Heritage Park Flood Control Facility	6/11/2014	
F.2-Inspection and Maintenance Program	Annual Inspection and Assessment for Village Public Works Facility	6/27/2014	
F.4-Municipal Operations Waste Disposal	Residential Recycling	7/1/2014	1,012,760 pounds recycled
F.4-Municipal Operations Waste Disposal	Residential Recycling	8/1/2014	874,540 pounds recycled

<u>Entry Type</u>	<u>Description</u>	<u>Date</u>	<u>Amount Disposed or Applied</u>
F.2-Inspection and Maintenance Program	Annual Inspection and Assessment for Village Public Works Facility	8/1/2014	
F.4-Municipal Operations Waste Disposal	Residential Recycling	9/1/2014	937,860 pounds recycled
F.2-Inspection and Maintenance Program	Annual Inspection and Assessment for Village Public Works Facility	9/17/2014	
F.4-Municipal Operations Waste Disposal	Residential Recycling	10/1/2014	846,500 pounds recycled
F.2-Inspection and Maintenance Program	Annual Inspection and Assessment for Village Public Works Facility	10/22/2014	
F.4-Municipal Operations Waste Disposal	Residential Recycling	11/1/2014	846,500 pounds recycled
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	11/16/2014	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	11/18/2014	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	11/21/2014	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	11/22/2014	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	11/24/2014	
F.2-Inspection and Maintenance Program	Annual Inspection and Assessment for Village Public Works Facility	11/25/2014	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	11/25/2014	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	11/26/2014	
F.4-Municipal Operations Waste Disposal	Residential Recycling	12/1/2014	1,116,080 pounds recycled
F.1-Employee Training Program	Snow School	12/4/2014	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control materials	12/8/2014	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	12/12/2014	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	12/21/2014	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	12/22/2014	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	1/3/2015	

<u>Entry Type</u>	<u>Description</u>	<u>Date</u>	<u>Amount Disposed or Applied</u>
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	1/4/2015	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	1/7/2015	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	1/10/2015	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	1/13/2015	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	1/21/2015	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	1/25/2015	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	1/27/2015	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	1/30/2015	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	2/4/2015	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	2/10/2015	
F.6-Other Municipal Operations Controls	Snow Removal and Ice Control Materials	2/12/2015	
F.2-Inspection and Maintenance Program	Annual Inspection and Assessment for Village Public Works Facility	2/13/2015	

# 2014 Outfall Inspection Report

Village of Mount Prospect

Project # 1301061.02



## Document Information

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# 1 Inspection Report Introduction

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Federal regulations through the U.S. Environmental Protection Agency (USEPA) require that all Municipal Separate Storm Sewer Systems (MS4s), partially or fully in urbanized areas based on the 2000 census, obtain storm water permits for their discharges into receiving waters. Storm water runoff naturally contains numerous constituents; however, urbanization and urban activities (including municipal activities) typically increase concentrations to levels that may impact water quality. Pollutants associated with storm water include sediment, nutrients, bacteria and viruses, oil and grease, metals, organics, pesticides, and gross pollutants. Regulated systems include the conveyance or system of conveyances including roads with drainage systems, streets, catch basins, gutters, ditches, swales, manmade channels or storm sewers. The Village is considered an MS4 community and therefore must follow the regulations of the Illinois Environmental Protection Agency's (IEPA) National Pollutant Discharge Elimination System (NPDES) General Permit No. ILR40 for Discharges from MS4s. As part of this permit, MS4s are required to:

1. Conduct annual inspections of the storm sewer outfalls.
2. Address post-construction runoff control from new development and redevelopment projects, public surfaces and existing developed property.

This report presents the results of the 2014 outfall inspections for the Village of Mount Prospect, Illinois.

## 2 Outfall Inspection

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An inspection of the Village's outfalls is conducted annually, as required by the NPDES General Permit No. ILR40. Outfalls are visually inspected during dry conditions (i.e. no precipitation within the preceding 72 hours), photographed and data reported on an outfall inspection form. These inspections are conducted by consulting outfall location maps, which can be found in Appendix A. The data forms and associated photos are located in Appendix B. An outfall inspection summary of the 2014 inspections is located in Table 2-1. The outfall inspection data form used to complete the outfall inspections is divided into five parts:

1. background data,
2. outfall description,
3. physical indicators,
4. physical indicators for flowing outfalls only, and
5. non-illicit discharge concerns.

### 2.1 Background Data

The first part of the data form notes background information. This information includes the subwatershed name, outfall ID, inspection date, inspection time, temperature, inspector name, previous 72 hours precipitation and land use.

### 2.2 Outfall Description

The second part of the data form describes the outfall. Outfall descriptors such as closed and open drainage, type of material (i.e., reinforced concrete, corrugated metal, polyvinyl chloride, high density polyethylene, steel, or clay/drain tile), outfall shape (i.e. elliptical, box, round), dimensions and the amount of the culvert that is submerged.

### 2.3 Physical Indicators

The third part of the data form addresses physical indicators. Physical indicators include damage, deposits, stains, abnormal vegetation, poor pool quality, pipe algae and flow. If any of the physical indicators are present, a description of the indicator is selected on the form and additional comments regarding the indicator are noted in the comments section.

### 2.4 Physical Indicators for Flowing Outfalls

The physical indicators for flowing outfalls part of the data form will only be completed if flow is observed at the outfall during the inspection. If flow is observed, it will be inspected for odor, color, turbidity and floatables. If any of the listed parameters are present, they will be indicated on the data form and both a description and a severity index will be assigned to them.

### 2.5 Non-Illicit Discharge Concerns

Any additional concerns or comments regarding non-illicit discharge at the outfall are included at the end of the data form.

**Table 2-1 Outfall Inspection Summary**

ID #	Date	Land Use	Type	Material	Size	Possible Illicit Discharge	Flow	Physical Indicators (Flowing Outfalls)	Non-Illicit Discharge Concerns
1	7/28/14	Open Space	StormSewer	RCP	12"	No	None	None	None
2	7/28/14	Open Space	StormSewer	RCP	24"	No	None	None	None
3	7/28/14	Open Space	StormSewer	RCP	12"	No	None	None	None
4	7/28/14	Residential	StormSewer	RCP	12"	No	None	None	None
5	7/28/14	Open Space	StormSewer	RCP	24"	No	None	None	None
6	7/28/14	Open Space	StormSewer	RCP	12"	No	None	None	None
7	7/28/14	Open Space	StormSewer	RCP	24"	No	None	None	Damaged flare
8	7/28/14	Open Space	StormSewer	RCP	12"	No	Trickle	None	None
9	7/28/14	Open Space	StormSewer	HDPE	6"	No	None	None	None
11	7/28/14	Commercial	StormSewer	RCP	24"	No	None	None	None
12	7/28/14	Commercial	StormSewer	RCP	12"	No	Trickle	None	None
13	7/28/14	Commercial	StormSewer	RCP	12"	No	None	None	None
14	7/28/14	Residential	StormSewer	RCP	36"	No	None	None	Trash
15	7/28/14	Open Space	StormSewer	RCP	24"	No	None	None	Sediment accumulated inside of outfall
16	7/28/14	Open Space	StormSewer	RCP	12"	No	None	None	Some sediment and debris in outfall
17	7/28/14	Open Space	StormSewer	RCP	12"*8"	No	None	None	Sediment building up in outfall
21	7/28/14	Open Space	StormSewer	RCP	24"	No	None	None	None
22	7/28/14	Open Space	StormSewer	RCP	12"*8"	No	None	None	None
23	7/28/14	Open Space	StormSewer	RCP	12"	No	None	None	None
24	7/28/14	Open Space	StormSewer	RCP	12"	No	None	None	None
25	7/28/14	Open Space	StormSewer	RCP	12"	No	None	None	None
26	7/28/14	Open Space	StormSewer	RCP	36"	No	None	None	None
28	7/28/14	Open Space	StormSewer	RCP	8"	No	Trickle	None	None
29	7/28/14	Open Space	StormSewer	RCP	36"	No	Trickle	None	None
30	7/28/14	Open Space	StormSewer	RCP	8"	No	Trickle	None	None
31	7/28/14	Open Space	StormSewer	CMP	36"	No	Trickle	None	None
32	7/28/14	Open Space	StormSewer	PVC	12"	No	None	None	None
33	7/28/14	Open Space	StormSewer	RCP	12"	No	None	None	None
34	7/29/14	Residential	StormSewer	RCP	36"	No	Trickle	None	None
35	7/29/14	Residential	StormSewer	RCP	14"	No	None	None	None
36	7/29/14	Residential	StormSewer	RCP	12"	No	None	None	None
36-1	7/29/14	Residential	StormSewer	RCP	24"	No	None	None	Severe erosion beneath outfall
37	7/29/14	Open Space	StormSewer	RCP	36"	No	Trickle	None	None
38	7/29/14	Open Space	StormSewer	RCP	72"	No	None	None	None

39	7/29/14	Open Space	StormSewer	PVC	6"	No	None	None	Scour hole noted below outfall
40	7/29/14	Open Space	StormSewer	CMP	8"	No	None	None	None
41	7/29/14	Open Space	StormSewer	CMP	12"	No	None	None	None
42	7/29/14	Open Space	StormSewer	RCP	12"	No	None	None	None
43	7/29/14	Open Space	StormSewer	RCP	12"	No	None	None	Bank erosion beneath outfall
44	7/29/14	Open Space	StormSewer	PVC	8"	No	None	None	None
45	7/29/14	Open Space	StormSewer	Steel	12"	No	None	None	None
46	7/29/14	Open Space	StormSewer	Steel	24"	No	Trickle	None	Outfall is covered
47	7/29/14	Open Space	StormSewer	CMP	20"*12"	No	None	None	None
47-1	7/29/14	Open Space	StormSewer	CMP	30"*24"	No	None	None	None
48	7/29/14	Open Space	StormSewer	Steel	8"	No	None	None	None
50	7/29/14	Open Space	StormSewer	Steel	12"	No	None	None	None
51	7/29/14	Residential	StormSewer	RCP	12"	No	Trickle	None	None
52	7/29/14	Open Space	StormSewer	RCP	12"	No	None	None	None
53	7/29/14	Open Space	StormSewer	RCP	12"	No	None	None	None
54	7/29/14	Open Space	StormSewer	RCP	36"	No	Trickle	None	None
55	7/29/14	Open Space	StormSewer	RCP	12"	No	None	None	None
56	7/29/14	Commercial	StormSewer	RCP	12"	No	None	None	Some debris in outfall
57	7/29/14	Commercial	StormSewer	RCP	30"	No	None	None	None
58	7/29/14	Commercial	StormSewer	RCP	24"	No	None	None	Outfall is filled with debris
59	7/29/14	Commercial	StormSewer	RCP	12"	No	Moderate	None	None
60	7/29/14	Commercial	StormSewer	RCP	48"	No	None	None	None
61	7/29/14	Commercial	StormSewer	RCP	48"	No	Trickle	None	None
62	7/29/14	Commercial	StormSewer	RCP	48"	No	None	None	None
63	7/29/14	Commercial	StormSewer	CMP	12"*18"	No	None	None	None
64	7/29/14	Commercial	StormSewer	RCP	30"	No	None	None	None
65	7/29/14	Commercial	StormSewer	RCP	12"	No	None	None	Debris accumulated on grate
66	7/29/14	Commercial	StormSewer	RCP	24"	No	Trickle	None	None
67	7/29/14	Commercial	StormSewer	RCP	24"	No	Trickle	None	None
68	7/29/14	Commercial	StormSewer	RCP	24"	No	Trickle	None	None
69	7/29/14	Open Space	StormSewer	RCP	12"	No	Trickle	None	None
70	7/29/14	Residential	StormSewer	RCP	12"	No	None	None	Debris accumulated in outfall
71	7/29/14	Commercial	StormSewer	RCP	24"	No	Trickle	None	None
73	7/29/14	Commercial	StormSewer	RCP	12"	No	Trickle	None	None
74	7/29/14	Commercial	StormSewer	RCP	12"	No	Trickle	None	None
75	7/29/14	Open Space	StormSewer	RCP	24"	No	Trickle	None	None
76	7/29/14	Open Space	StormSewer	RCP	72"	No	Trickle	None	None

77	7/29/14	Commercial	StormSewer	RCP	8"	No	None	None	None
78	7/29/14	Open Space	StormSewer	RCP	30"	No	Trickle	None	None
79	7/29/14	Open Space	StormSewer	RCP	24"	No	Trickle	None	None
81	7/29/14	Open Space	StormSewer	Steel	24"	No	Trickle	None	None
82	7/29/14	Open Space	StormSewer	RCP	12"	No	None	None	None
84	7/29/14	Open Space	StormSewer	RCP	8"	No	Trickle	None	None
85	7/29/14	Open Space	OpenDrainage	Earthen	36"*6"	No	None	None	Golf course undergoing renovation
87	7/29/14	Open Space	StormSewer	RCP	72"	No	Trickle	None	Some debris in outfall
87-1	7/29/14	Open Space	StormSewer	RCP	72"	No	Moderate	None	None
88	7/29/14	Open Space	StormSewer	RCP	72"	No	None	None	None
89	7/29/14	Residential	StormSewer	RCP	10"	No	None	None	None
90	7/29/14	Residential	StormSewer	RCP	12"	No	Trickle	None	None
90-1	7/29/14	Residential	StormSewer	RCP	10"	No	None	None	None
91	7/29/14	Residential	StormSewer	RCP	12"	No	None	None	None
94	7/29/14	Residential	StormSewer	RCP	12"	No	None	None	None
95	7/29/14	Residential	StormSewer	RCP	12"	No	None	None	None
96	7/29/14	Residential	StormSewer	RCP	15"	No	None	None	None
97	7/29/14	Open Space	StormSewer	RCP	12"	No	None	None	None
98	7/29/14	Open Space	StormSewer	RCP	18"	No	None	None	None
100	7/29/14	Open Space	StormSewer	RCP	12"	No	None	None	None
101	7/29/14	Open Space	StormSewer	RCP	24"	No	None	None	None
102	7/29/14	Open Space	StormSewer	PVC	12"	No	Trickle	None	None
103	7/29/14	Open Space	StormSewer	RCP	21"	No	None	None	None
104	7/29/14	Open Space	StormSewer	RCP	15"	No	None	None	None
104-1	7/29/14	Open Space	StormSewer	RCP	15"	No	None	None	None
104-2	7/29/14	Open Space	StormSewer	RCP	12"	No	Trickle	None	None
105	7/29/14	Open Space	StormSewer	CMP	15"	No	None	None	None
106	7/29/14	Residential	StormSewer	CMP	12"	No	None	None	None
107	7/29/14	Open Space	StormSewer	RCP	36"*24"	No	None	None	Sediment accumulation noted at outfall
108	7/29/14	Open Space	StormSewer	RCP	12"	No	None	None	None
109	7/29/14	Open Space	StormSewer	CMP	24"	No	None	None	None
110	7/29/14	Open Space	StormSewer	RCP	12"	No	None	None	None
111	7/29/14	Open Space	StormSewer	RCP	12"	No	None	None	None
112	7/29/14	Open Space	StormSewer	PVC	30"	No	Trickle	None	None
112-1	7/29/14	Open Space	StormSewer	RCP	12"	No	None	None	None
113	7/29/14	Open Space	StormSewer	RCP	20"	No	Trickle	None	None
114	7/29/14	Open Space	StormSewer	RCP	18"	No	Trickle	None	None
115	7/29/14	Open Space	StormSewer	RCP	20"	No	None	None	None

116	7/29/14	Open Space	StormSewer	RCP	20"	No	Trickle	None	None
117	7/29/14	Residential	StormSewer	RCP	12"	No	None	None	None
118	7/29/14	Residential	StormSewer	RCP	12"	No	None	None	None
119	7/29/14	Residential	StormSewer	RCP	12"	No	None	None	None
120	7/29/14	Residential	StormSewer	RCP	12"	No	None	None	None
121	7/29/14	Residential	StormSewer	RCP	12"	No	None	None	None
122	7/29/14	Residential	StormSewer	PVC	12"	No	None	None	None
123	7/29/14	Residential	StormSewer	RCP	24"	No	None	None	None
124	7/29/14	Commercial	StormSewer	RCP	24"	No	None	None	None
126	7/31/14	Open Space	StormSewer	RCP	12"	No	None	None	None
127	7/31/14	Open Space	StormSewer	RCP	8"	No	None	None	Sediment accumulating in outfall
128	7/31/14	Open Space	StormSewer	RCP	4x 36"	No	Trickle	None	None

**Table 4-2 Test Site 1**

Parameter	Accepted Limits	Test Results			Recommendation
		2012	2013	2014	
Ammonia (mg/L)	15.0	0.03	<0.06	0.56	Continue Annual Monitoring
Chloride (mg/L)	500.00	343.0	174.0	429.0	Continue Annual Monitoring
Fluoride (mg/L)	1.4	<0.500	0.115	0.175	Continue Annual Monitoring
BOD (mg/L)	<8.0	<5.00	3.60	<0.80	Continue Annual Monitoring
Phenolics (mg/L)	0.100	<0.005	<0.010	0.00867	Continue Annual Monitoring
Phosphorous, Total (mg/L)	0.05	0.040	0.041	0.016	Continue Annual Monitoring
Total Suspended Solids (mg/L)	15.0-30.0	<3.36	<b>46.00</b>	<b>82.00</b>	Continue Annual Monitoring
Total Kjeldahl Nitrogen (mg/L)	<20.0	0.280	0.560	1.400	Continue Annual Monitoring
Potassium (mg/L)	20.0	5.90	4.51	5.65	Continue Annual Monitoring
Dissolved Oxygen (ppm)	March – July at least 5.0 August – February at least 3.5	6.99	4.00	<b>1.68</b>	Continue Annual Monitoring
Total Dissolved Solids (ppm)	1000	786.5	480.0	<b>1007.0</b>	Continue Annual Monitoring
Temperature (°F)	December – March 60.0 Max April – February 90.0 Max	55.90	55.76	64.60	Continue Annual Monitoring
Conductivity (µs/cm)	50.0 – 1500.0	573	943	1350	Continue Annual Monitoring
pH	6.5 – 9.0	7.69	7.70	7.66	Continue Annual Monitoring

NOTE: Bold text indicates that test results are out of the accepted limit range.

**Table 4-3 Test Site 2**

Parameter	Accepted Limits	Test Results			Recommendation
		2012	2013	2014	
Ammonia (mg/L)	15.0	0.01	<0.06	0.28	Continue Annual Monitoring
Chloride (mg/L)	500.00	343.0	181.0	480.0	Continue Annual Monitoring
Fluoride (mg/L)	1.4	<0.500	0.175	0.245	Continue Annual Monitoring
BOD (mg/L)	<8.0	<5.00	4.90	<0.80	Continue Annual Monitoring
Phenolics (mg/L)	0.100	0.006	<0.010	0.00764	Continue Annual Monitoring
Phosphorous, Total (mg/L)	0.05	<b>0.070</b>	0.020	0.014	Continue Annual Monitoring
Total Suspended Solids (mg/L)	15.0-30.0	9.00	8.00	<3.10	Continue Annual Monitoring
Total Kjeldahl Nitrogen (mg/L)	<20.0	0.560	1.110	0.980	Continue Annual Monitoring
Potassium (mg/L)	20.0	4.50	4.26	3.68	Continue Annual Monitoring
Dissolved Oxygen (ppm)	March – July at least 5.0 August – February at least 3.5	6.10	6.92	5.62	Continue Annual Monitoring
Total Dissolved Solids (ppm)	1000	<b>1027.0</b>	530.0	<b>1281.0</b>	Continue Annual Monitoring
Temperature (°F)	December – March 60.0 Max April – February 90.0 Max	55.00	54.23	64.50	Continue Annual Monitoring
Conductivity (µs/cm)	50.0 – 1500.0	1213	618	<b>1710</b>	Continue Annual Monitoring
pH	6.5 – 9.0	7.90	7.73	7.86	Continue Annual Monitoring

NOTE: Bold text indicates that test results are out of the accepted limit range.

**Table 4-4 Test Site 3**

Parameter	Accepted Limits	Test Results			Recommendation
		2012	2013	2014	
Ammonia (mg/L)	15.0	0.01	0.11	<0.15	Continue Annual Monitoring
Chloride (mg/L)	500.00	253.0	188.0	442.0	Continue Annual Monitoring
Fluoride (mg/L)	1.4	<0.500	0.177	0.242	Continue Annual Monitoring
BOD (mg/L)	<8.0	5.00	3.50	<0.80	Continue Annual Monitoring
Phenolics (mg/L)	0.100	<0.005	<0.009	<0.003	Continue Annual Monitoring
Phosphorous, Total (mg/L)	0.05	0.050	<b>0.430</b>	0.022	Continue Annual Monitoring
Total Suspended Solids (mg/L)	15.0-30.0	7.00	<b>106.00</b>	<3.10	Continue Annual Monitoring
Total Kjeldahl Nitrogen (mg/L)	<20.0	0.840	<0.500	0.980	Continue Annual Monitoring
Potassium (mg/L)	20.0	5.20	4.59	4.53	Continue Annual Monitoring
Dissolved Oxygen (ppm)	March – July at least 5.0 August – February at least 3.5	7.10	7.26	7.26	Continue Annual Monitoring
Total Dissolved Solids (ppm)	1000	773.5	540.0	<b>1175.0</b>	Continue Annual Monitoring
Temperature (°F)	December – March 60.0 Max April – February 90.0 Max	57.20	55.99	66.10	Continue Annual Monitoring
Conductivity (µs/cm)	50.0 – 1500.0	944	646	<b>1600</b>	Continue Annual Monitoring
pH	6.5 – 9.0	7.80	7.76	8.03	Continue Annual Monitoring

NOTE: Bold text indicates that test results are out of the accepted limit range.

**Table 4-5 Test Site 4**

Parameter	Accepted Limits	Test Results			Recommendation
		2012	2013	2014	
Ammonia (mg/L)	15.0	0.02	<0.06	0.28	Continue Annual Monitoring
Chloride (mg/L)	500.00	133.0	370.0	<b>1030.0</b>	Additional Testing
Fluoride (mg/L)	1.4	<0.500	0.391	0.231	Continue Annual Monitoring
BOD (mg/L)	<8.0	<6.00	<3.00	<0.80	Continue Annual Monitoring
Phenolics (mg/L)	0.100	0.024	<0.100	0.00594	Continue Annual Monitoring
Phosphorous, Total (mg/L)	0.05	<b>0.150</b>	0.045	0.021	Continue Annual Monitoring
Total Suspended Solids (mg/L)	15.0-30.0	4.00	3.00	6.00	Continue Annual Monitoring
Total Kjeldahl Nitrogen (mg/L)	<20.0	<.210	0.557	0.980	Continue Annual Monitoring
Potassium (mg/L)	20.0	3.40	3.78	4.86	Continue Annual Monitoring
Dissolved Oxygen (ppm)	March – July at least 5.0 August – February at least 3.5	6.80	7.41	6.96	Continue Annual Monitoring
Total Dissolved Solids (ppm)	1000	643.5	991.0	<b>2271.0</b>	Continue Annual Monitoring
Temperature (°F)	December – March 60.0 Max April – February 90.0 Max	61.20	56.66	64.80	Continue Annual Monitoring
Conductivity (µs/cm)	50.0 – 1500.0	821	<b>1540</b>	<b>3040</b>	Continue Annual Monitoring
pH	6.5 – 9.0	7.90	7.64	7.78	Continue Annual Monitoring

NOTE: Bold text indicates that test results are out of the accepted limit range.

**Table 4-6 Test Site 5**

Parameter	Accepted Limits	Test Results			Recommendation
		2012	2013	2014	
Ammonia (mg/L)	15.0	0.03	0.167	<0.15	Continue Annual Monitoring
Chloride (mg/L)	500.00	426.0	403.0	436.0	Continue Annual Monitoring
Fluoride (mg/L)	1.4	<.500	0.234	0.278	Continue Annual Monitoring
BOD (mg/L)	<8.0	<5.00	7.70	<0.80	Continue Annual Monitoring
Phenolics (mg/L)	0.100	<0.050	<0.001	0.0047	Continue Annual Monitoring
Phosphorous, Total (mg/L)	0.05	<b>0.060</b>	<b>0.235</b>	0.015	Continue Annual Monitoring
Total Suspended Solids (mg/L)	15.0-30.0	14.00	<b>116.00</b>	22.00	Continue Annual Monitoring
Total Kjeldahl Nitrogen (mg/L)	<20.0	2.090	1.530	0.980	Continue Annual Monitoring
Potassium (mg/L)	20.0	5.40	6.10	4.72	Continue Annual Monitoring
Dissolved Oxygen (ppm)	March – July at least 5.0 August – February at least 3.5	3.50	<b>3.32</b>	4.99	Continue Annual Monitoring
Total Dissolved Solids (ppm)	1000	<b>1625</b>	<b>1339</b>	<b>1602</b>	Additional Testing
Temperature (°F)	December – March 60.0 Max April – February 90.0 Max	60.10	56.46	60.50	Continue Annual Monitoring
Conductivity (µs/cm)	50.0 – 1500.0	<b>2047</b>	<b>1611</b>	<b>2030</b>	Additional Testing
pH	6.5 – 9.0	7.80	7.51	7.71	Continue Annual Monitoring

NOTE: Bold text indicates that test results are out of the accepted limit range.

**Table 4-7 Test Site 6**

Parameter	Accepted Limits	Test Results			Recommendation
		2012	2013	2014	
Ammonia (mg/L)	15.0	0.01	<0.06	0.28	Continue Annual Monitoring
Chloride (mg/L)	500.00	392.0	303.0	427.0	Continue Annual Monitoring
Fluoride (mg/L)	1.4	<0.500	0.217	0.262	Continue Annual Monitoring
BOD (mg/L)	<8.0	<5.00	3.30	2.00	Continue Annual Monitoring
Phenolics (mg/L)	0.100	0.010	<0.010	<0.00300	Continue Annual Monitoring
Phosphorous, Total (mg/L)	0.05	<0.020	<b>0.115</b>	0.019	Continue Annual Monitoring
Total Suspended Solids (mg/L)	15.0-30.0	<3.36	<2.83	11.00	Continue Annual Monitoring
Total Kjeldahl Nitrogen (mg/L)	<20.0	1.530	0.836	0.700	Continue Annual Monitoring
Potassium (mg/L)	20.0	4.60	4.93	4.78	Continue Annual Monitoring
Dissolved Oxygen (ppm)	March – July at least 5.0 August – February at least 3.5	10.40	12.30	9.01	Continue Annual Monitoring
Total Dissolved Solids (ppm)	1000	<b>1215.5</b>	967.0	979.0	Continue Annual Monitoring
Temperature (°F)	December – March 60.0 Max April – February 90.0 Max	59.90	55.06	68.40	Continue Annual Monitoring
Conductivity (µs/cm)	50.0 – 1500.0	<b>1533</b>	1141	1370	Continue Annual Monitoring
pH	6.5 – 9.0	8.10	8.13	7.95	Continue Annual Monitoring

NOTE: Bold text indicates that test results are out of the accepted limit range.

**Table 4-8 Test Site 7**

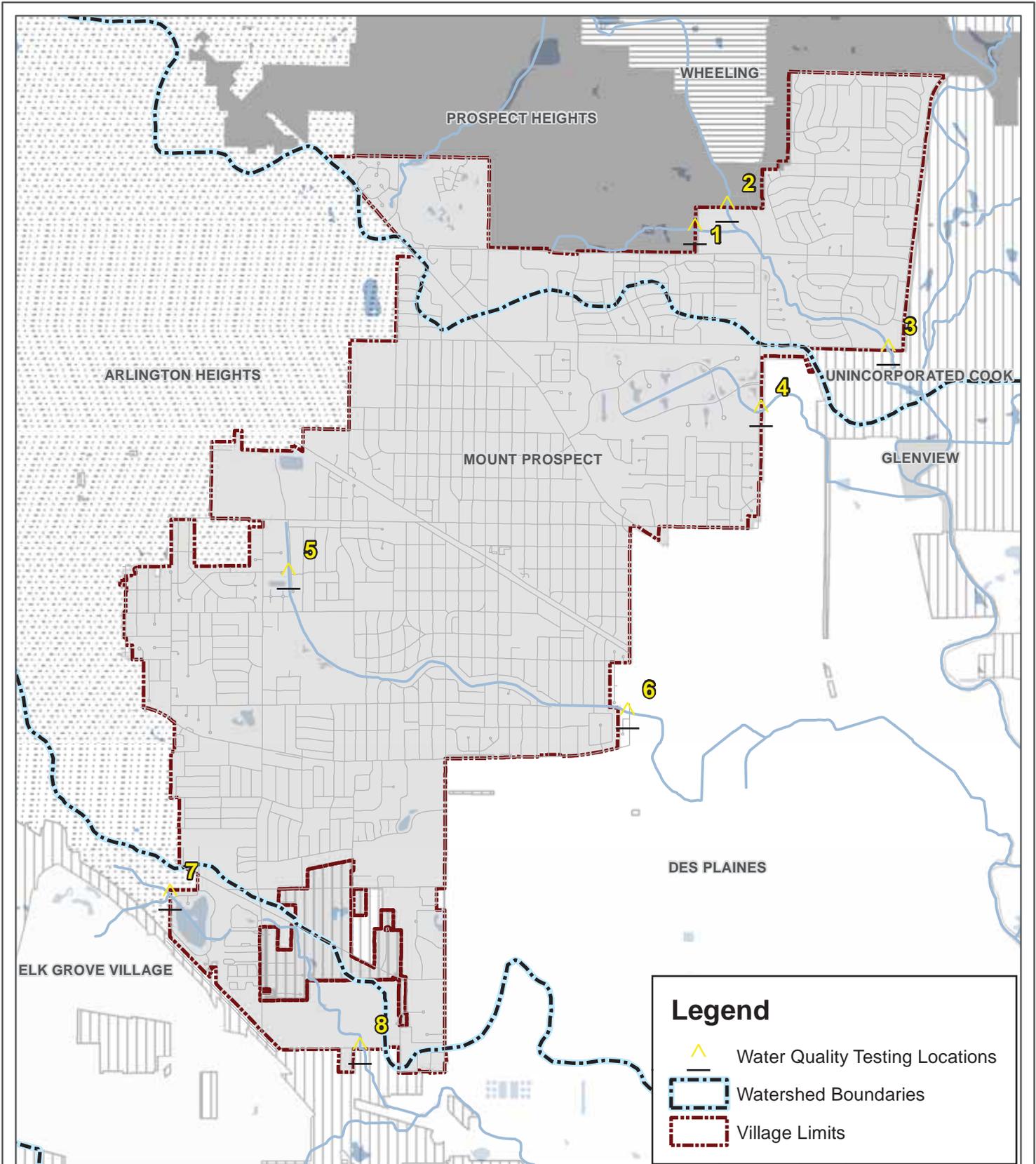
Parameter	Accepted Limits	Test Results			Recommendation
		2012	2013	2014	
Ammonia (mg/L)	15.0	0.02	<0.06	<0.15	Continue Annual Monitoring
Chloride (mg/L)	500.00	484.0	164.0	<b>654.0</b>	Additional Testing
Fluoride (mg/L)	1.4	<0.500	0.159	0.369	Continue Annual Monitoring
BOD (mg/L)	<8.0	6.00	<b>11.20</b>	4.00	Continue Annual Monitoring
Phenolics (mg/L)	0.100	<0.005	<0.010	0.00501	Continue Annual Monitoring
Phosphorous, Total (mg/L)	0.05	<0.020	<b>0.201</b>	0.034	Continue Annual Monitoring
Total Suspended Solids (mg/L)	15.0-30.0	<3.36	24.00	12.00	Continue Annual Monitoring
Total Kjeldahl Nitrogen (mg/L)	<20.0	0.560	0.975	1.540	Continue Annual Monitoring
Potassium (mg/L)	20.0	5.20	2.74	5.54	Continue Annual Monitoring
Dissolved Oxygen (ppm)	March – July at least 5.0 August – February at least 3.5	6.70	7.94	5.53	Continue Annual Monitoring
Total Dissolved Solids (ppm)	1000	<b>1248.0</b>	647.0	936.0	Continue Annual Monitoring
Temperature (°F)	December – March 60.0 Max April – February 90.0 Max	59.50	57.30	69.10	Continue Annual Monitoring
Conductivity (µs/cm)	50.0 – 1500.0	<b>1559</b>	787	1320	Continue Annual Monitoring
pH	6.5 – 9.0	7.80	7.92	7.87	Continue Annual Monitoring

NOTE: Bold text indicates that test results are out of the accepted limit range.

**Table 4-9 Test Site 8**

Parameter	Accepted Limits	Test Results			Recommendation
		2012	2013	2014	
Ammonia (mg/L)	15.0	0.02	<0.06	0.42	Continue Annual Monitoring
Chloride (mg/L)	500.00	413.0	215.0	408.0	Continue Annual Monitoring
Fluoride (mg/L)	1.4	<0.500	0.178	0.295	Continue Annual Monitoring
BOD (mg/L)	<8.0	7.00	4.80	0.80	Continue Annual Monitoring
Phenolics (mg/L)	0.100	0.016	<0.010	0.00478	Continue Annual Monitoring
Phosphorous, Total (mg/L)	0.05	0.030	<b>0.222</b>	0.049	Continue Annual Monitoring
Total Suspended Solids (mg/L)	15.0-30.0	<3.36	8.00	<b>49.00</b>	Continue Annual Monitoring
Total Kjeldahl Nitrogen (mg/L)	<20.0	0.98	1.11	0.98	Continue Annual Monitoring
Potassium (mg/L)	20.0	<3.12	3.18	1.24	Continue Annual Monitoring
Dissolved Oxygen (ppm)	March – July at least 5.0 August – February at least 3.5	6.50	11.94	8.20	Continue Annual Monitoring
Total Dissolved Solids (ppm)	1000	<b>1417.00</b>	542.00	960.00	Continue Annual Monitoring
Temperature (°F)	December – March 60.0 Max April – February 90.0 Max	59.20	56.62	70.90	Continue Annual Monitoring
Conductivity (µs/cm)	50.0 – 1500.0	<b>1767</b>	654	1380	Continue Annual Monitoring
pH	6.5 – 9.0	7.70	8.13	8.85	Continue Annual Monitoring

NOTE: Bold text indicates that test results are out of the accepted limit range.



**2**

Project No. 1301061

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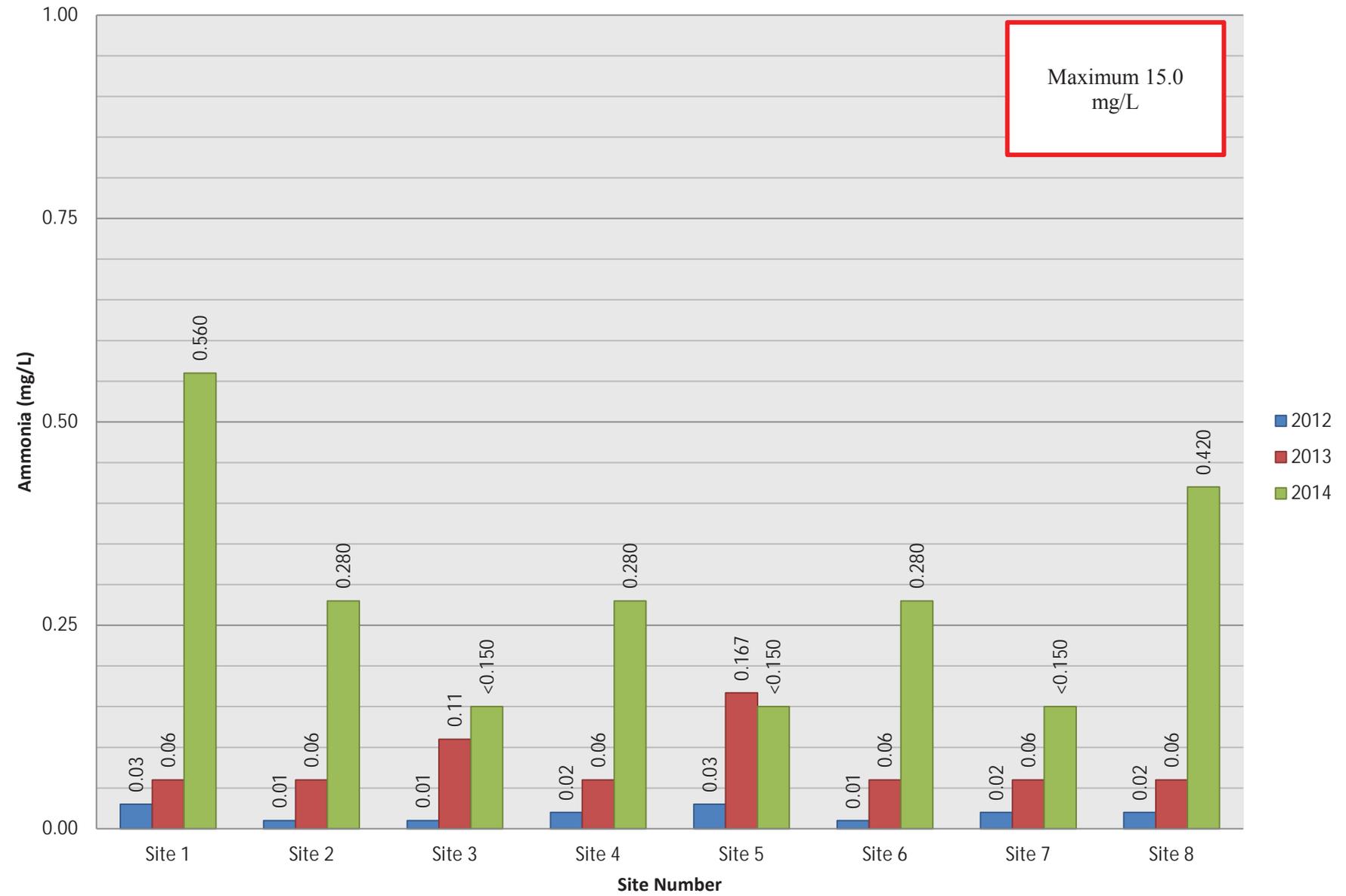
**NPDES Mount Prospect  
Overall Water Quality Map**

**The Village of Mount Prospect  
Cook County, IL**

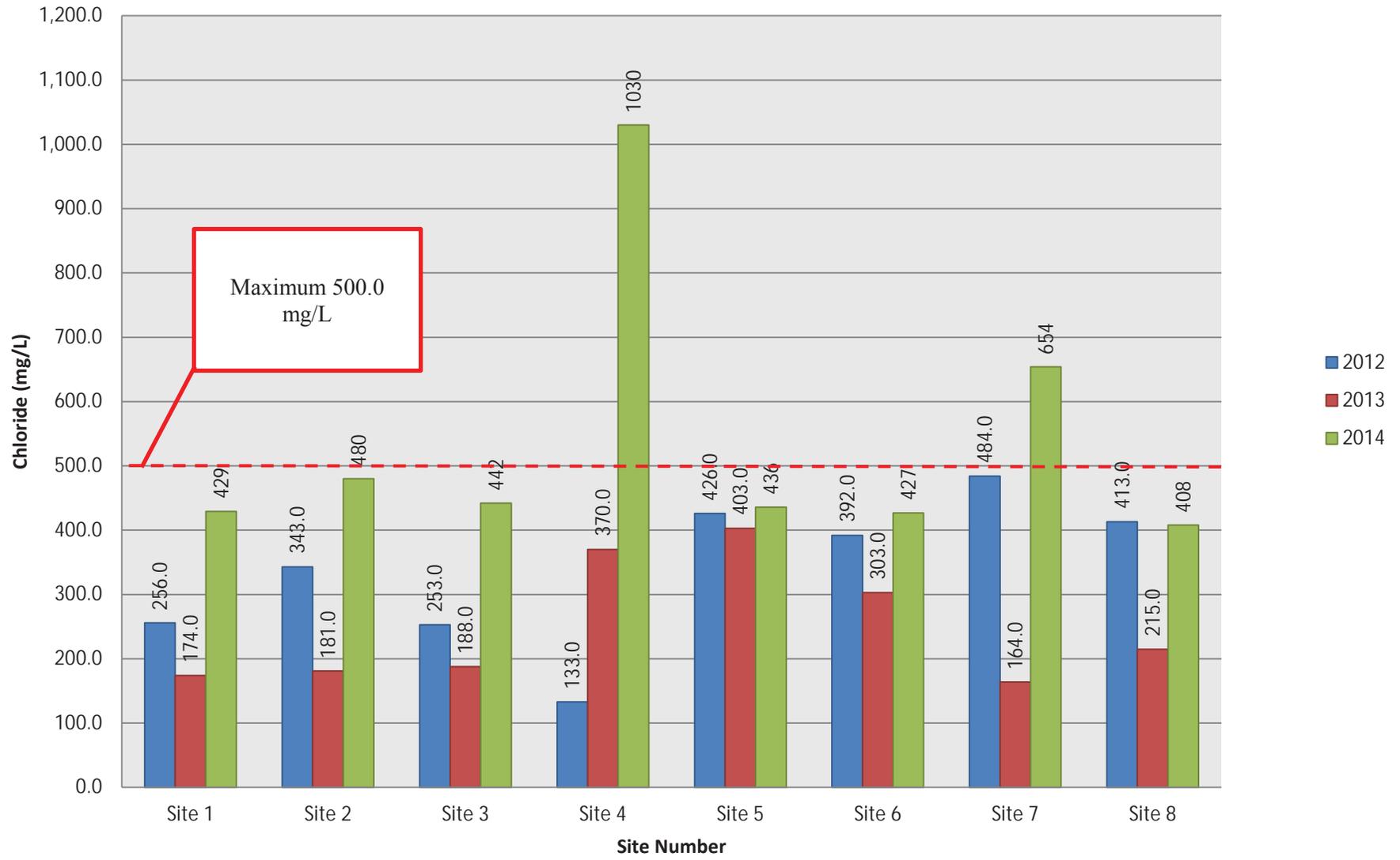


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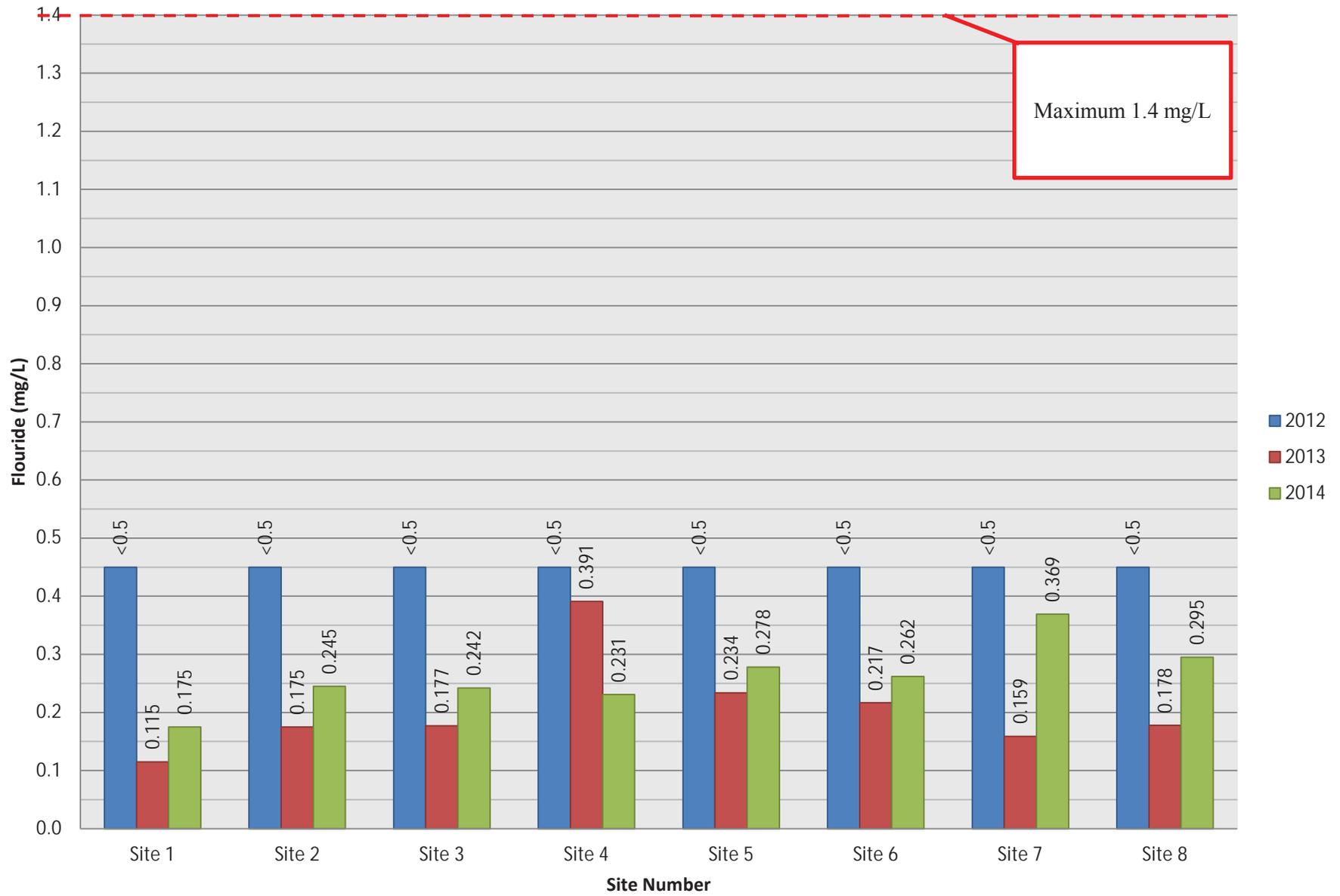
# Ammonia (mg/L)



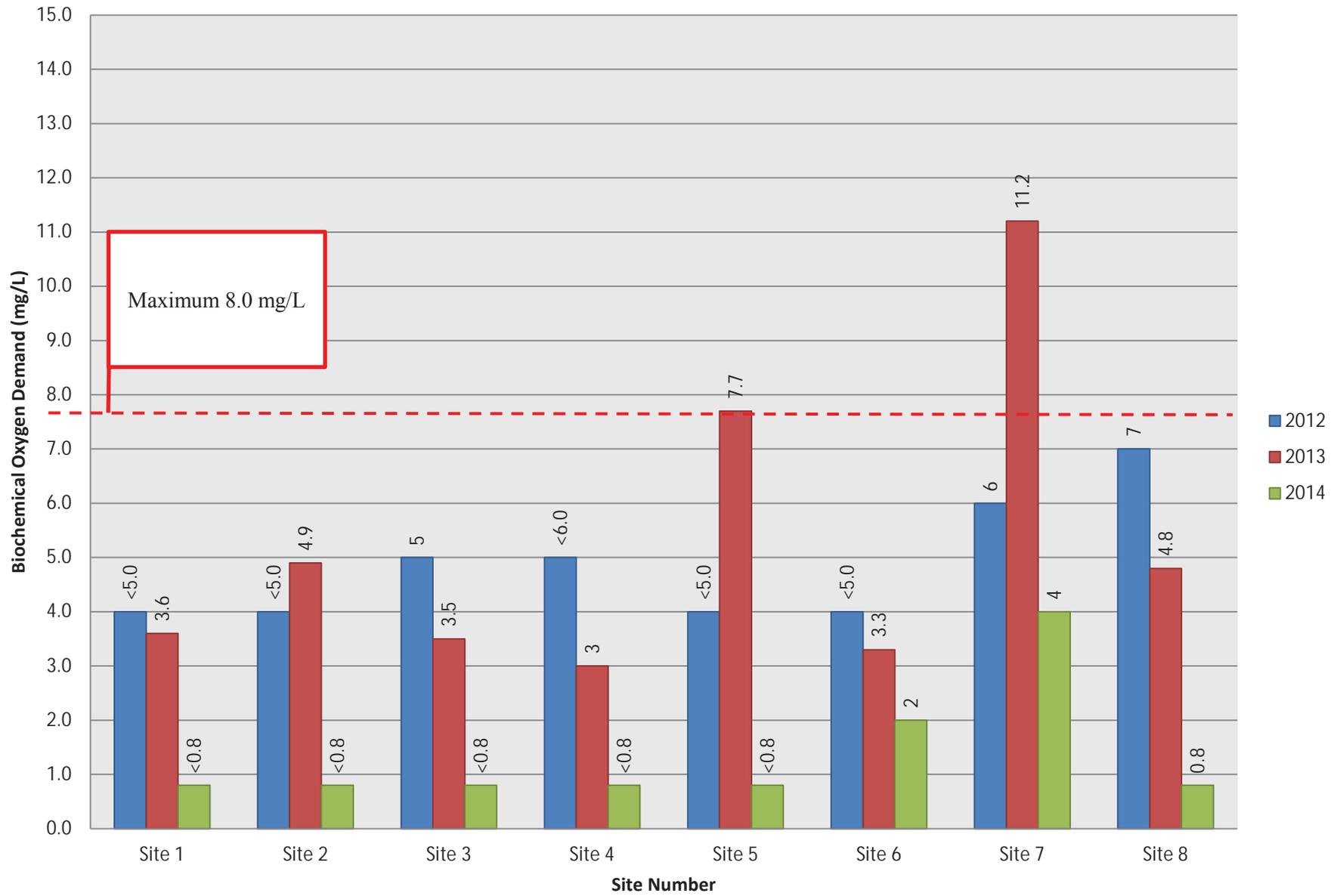
# Chloride (mg/L)



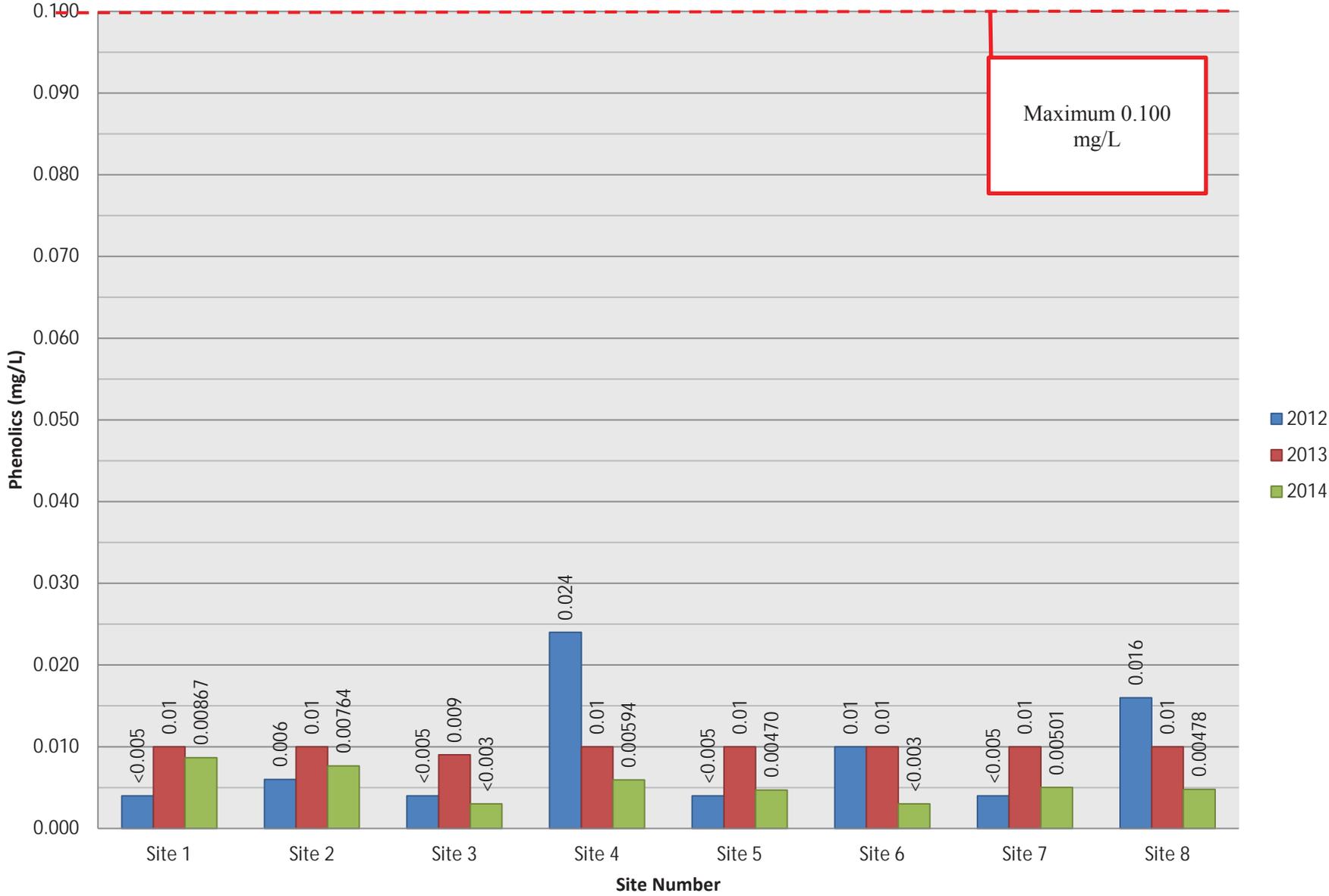
# Flouride (mg/L)



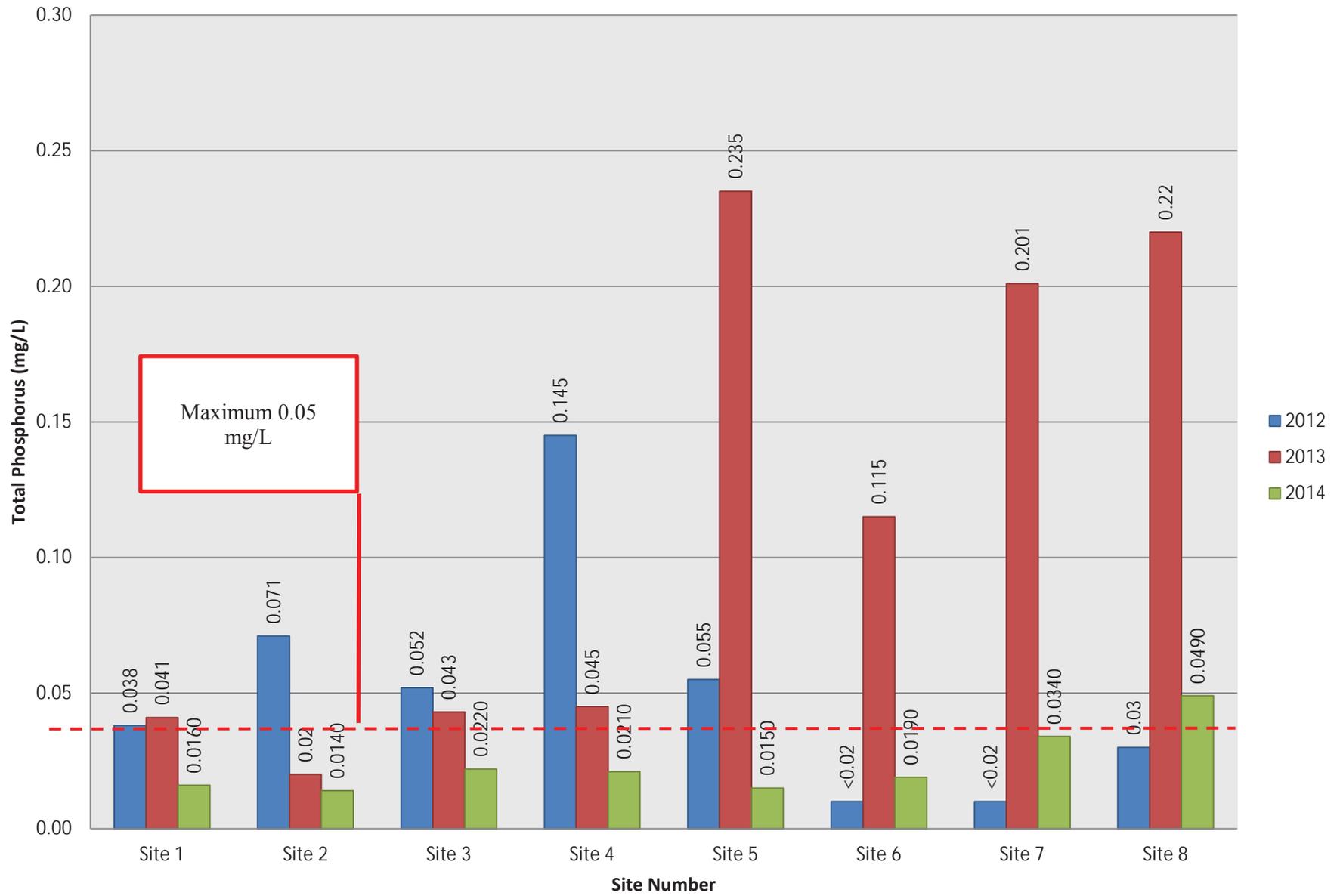
# Biochemical Oxygen Demand (mg/L)



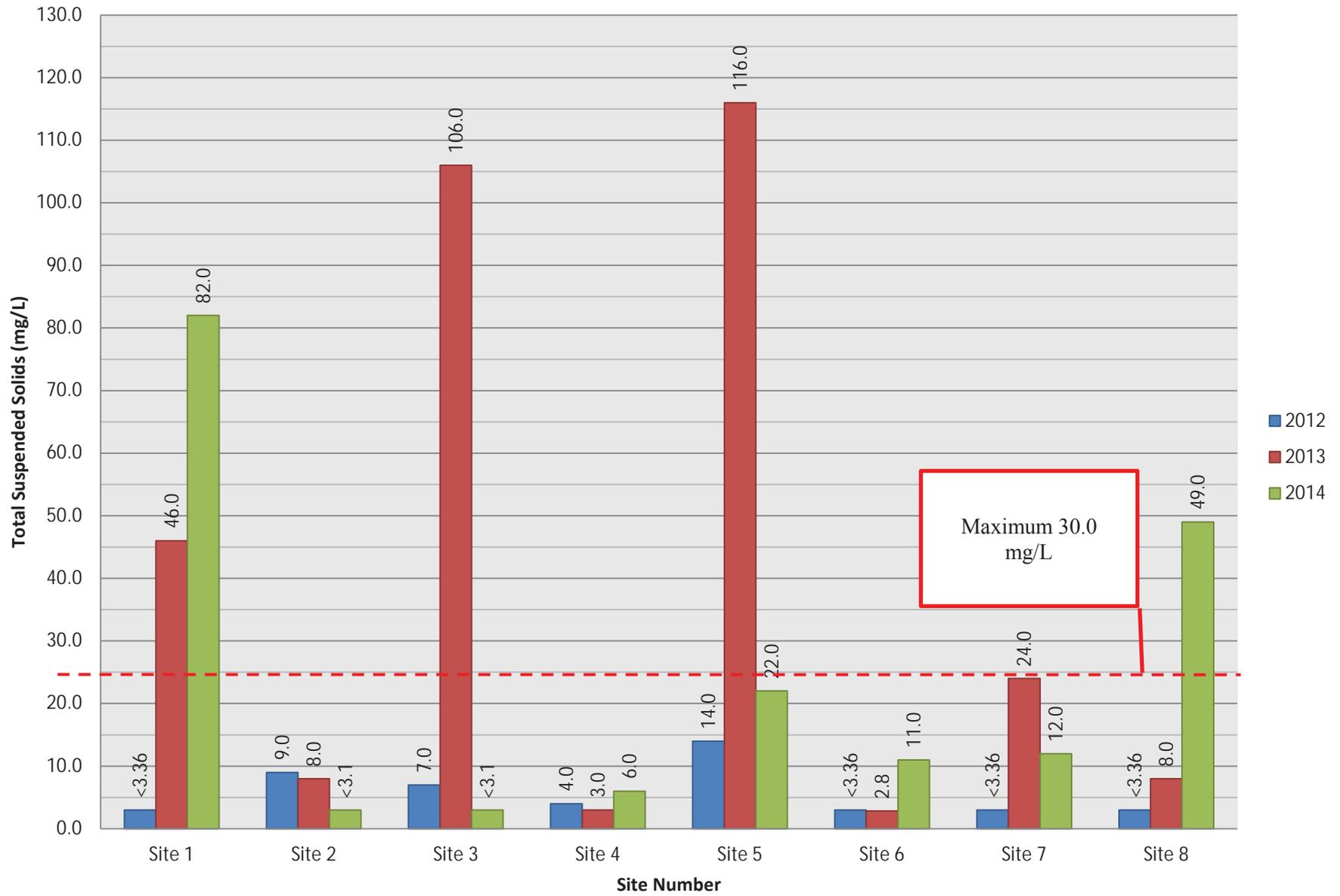
# Phenolics (mg/L)



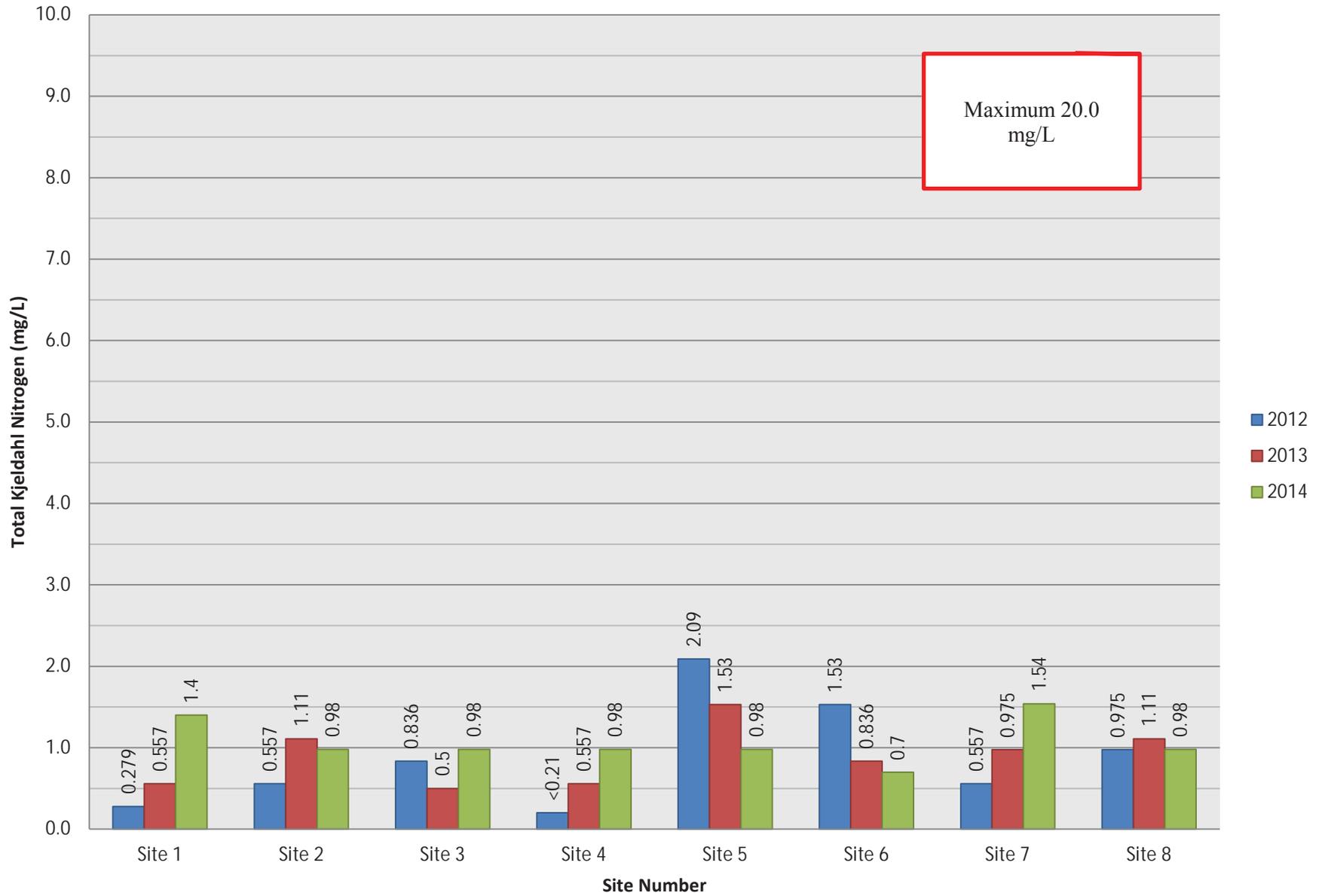
# Total Phosphorus (mg/L)



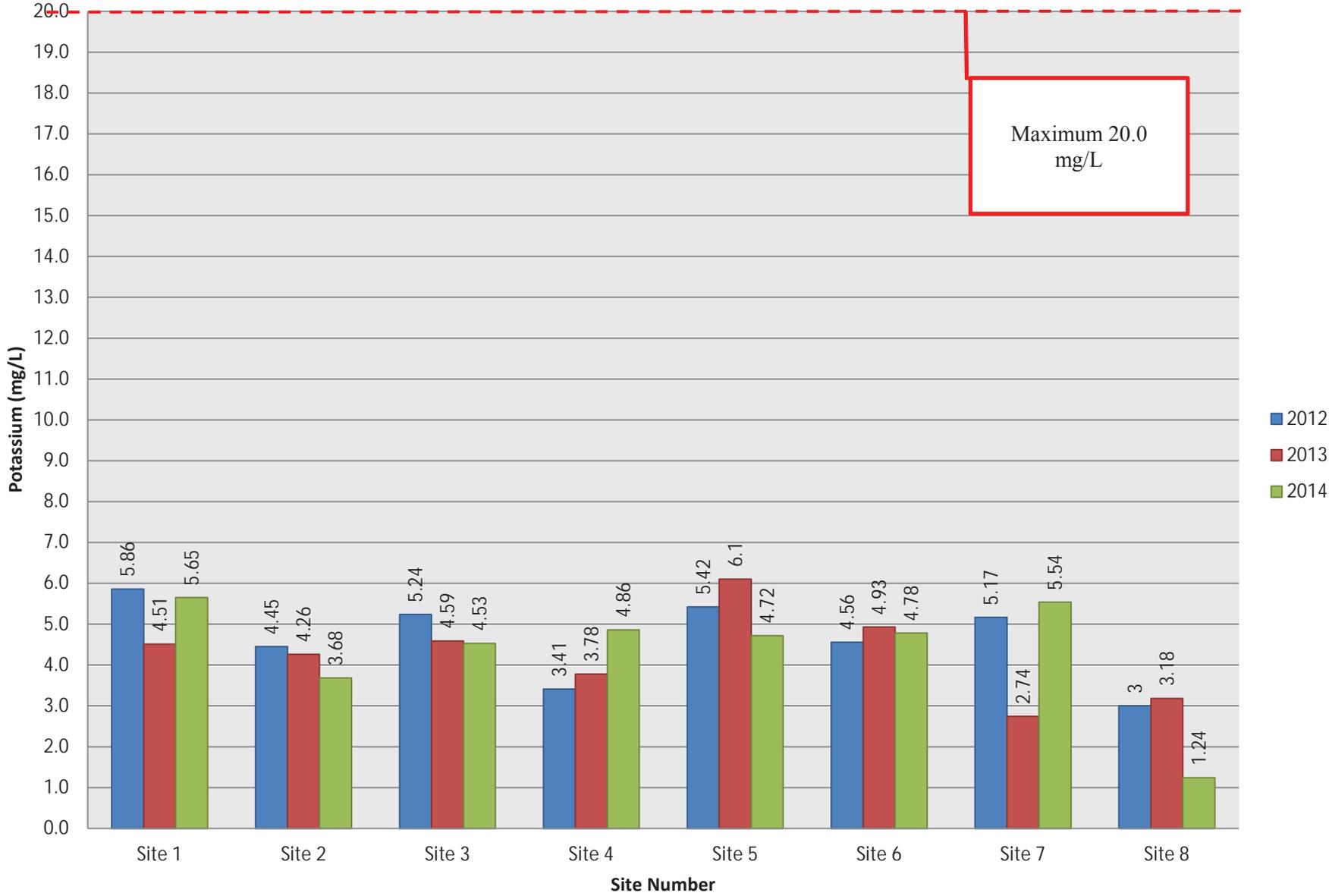
# Total Suspended Solids (mg/L)



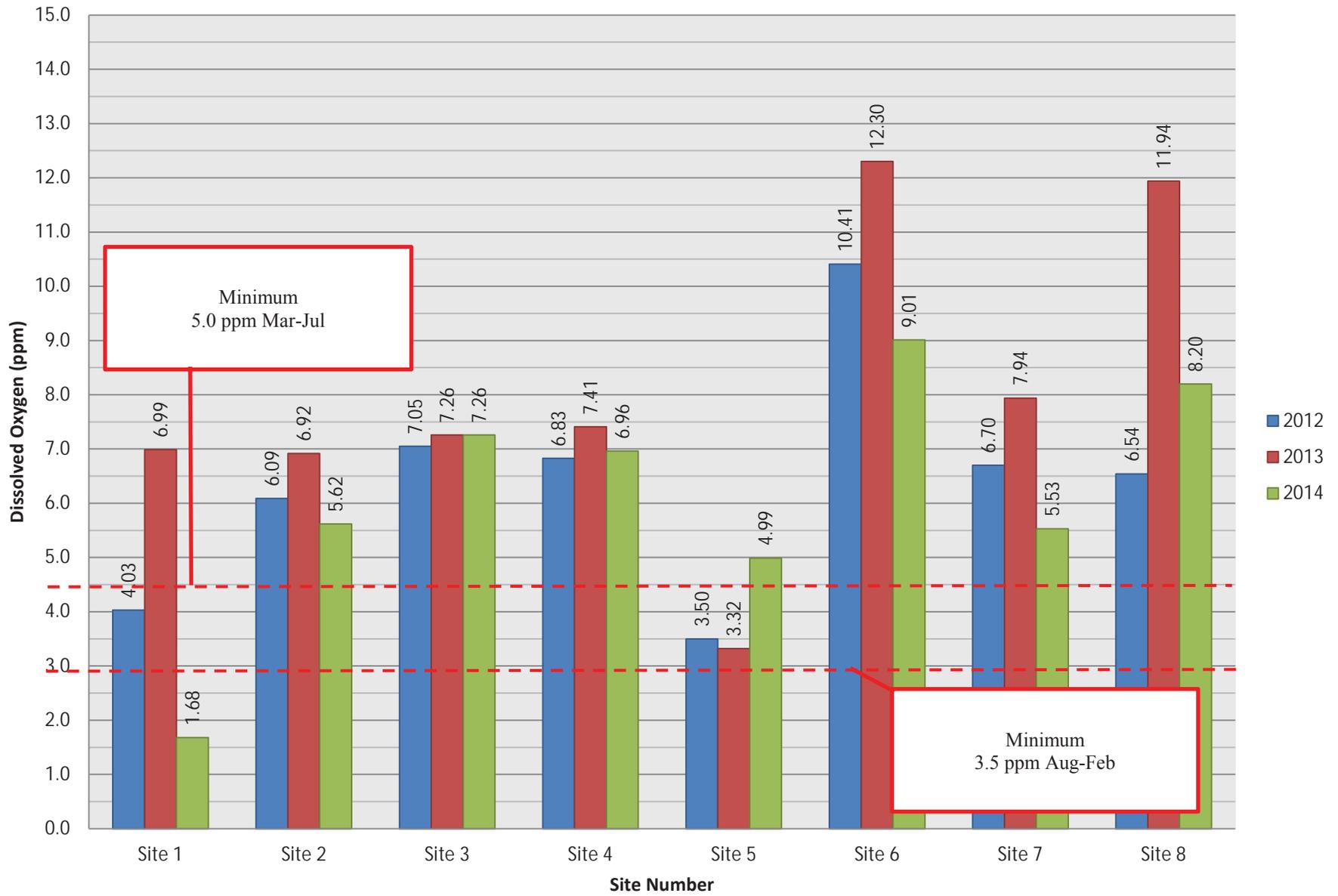
# Total Kjeldahl Nitrogen (mg/L)



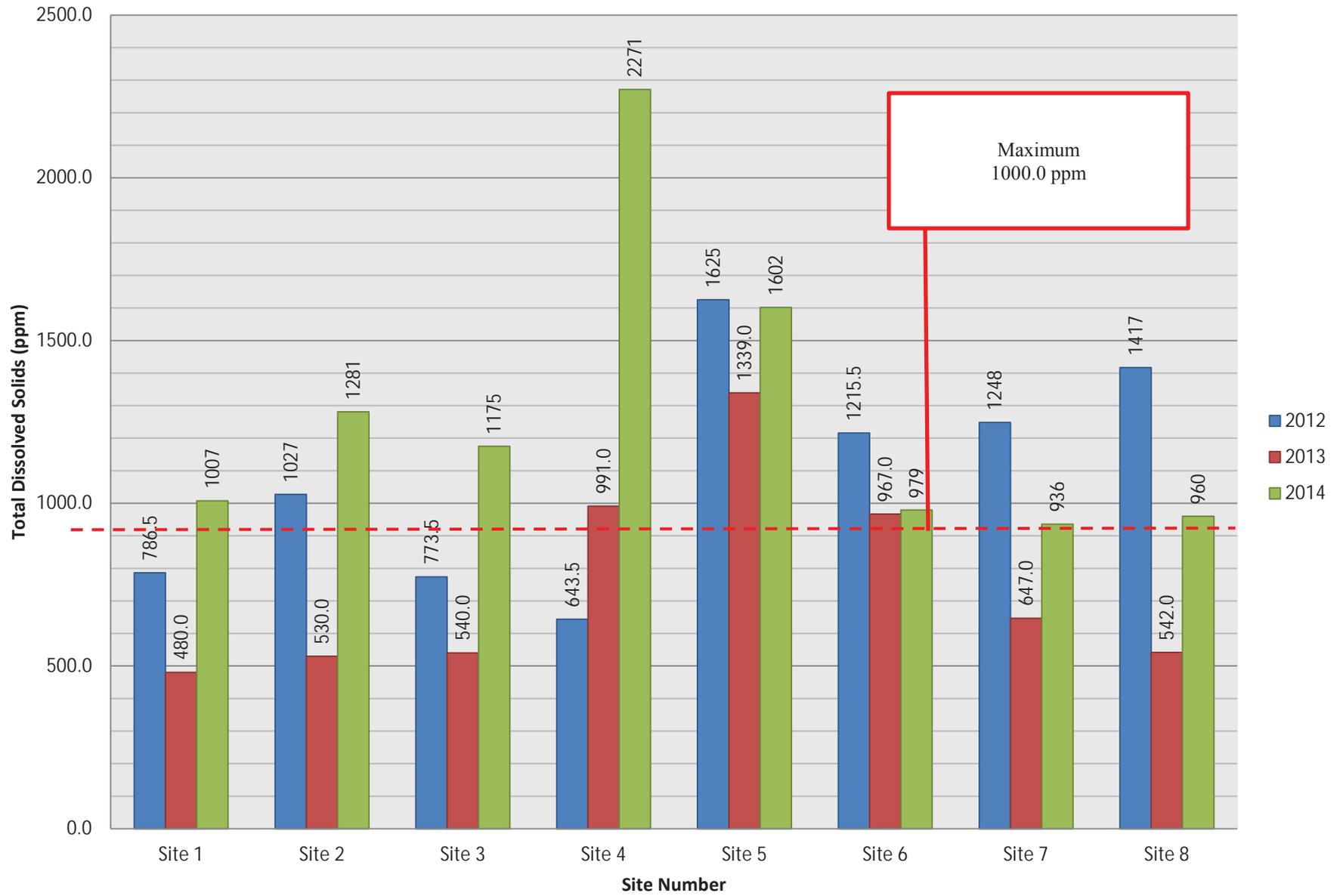
# Potassium (mg/L)



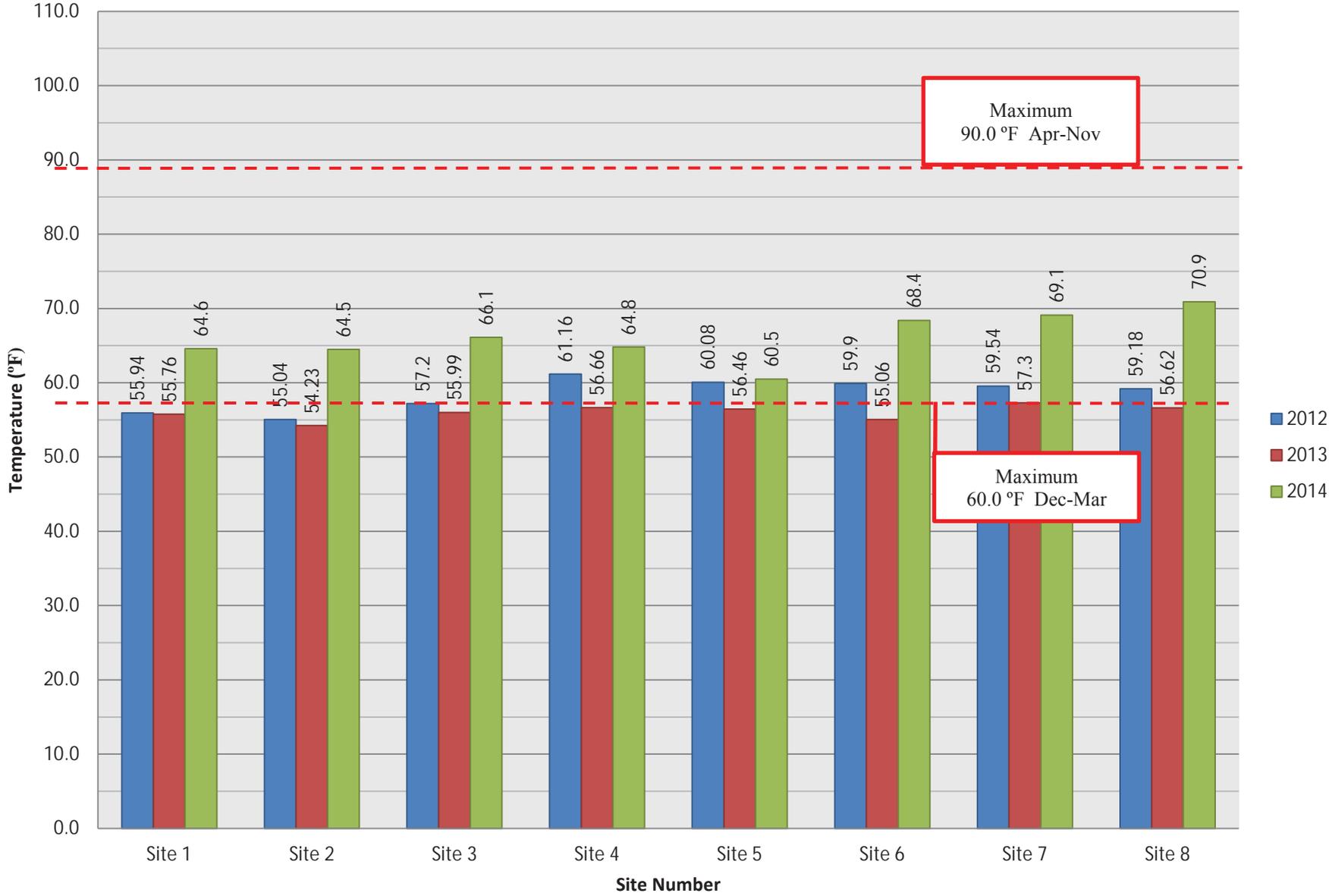
# Dissolved Oxygen (ppm)



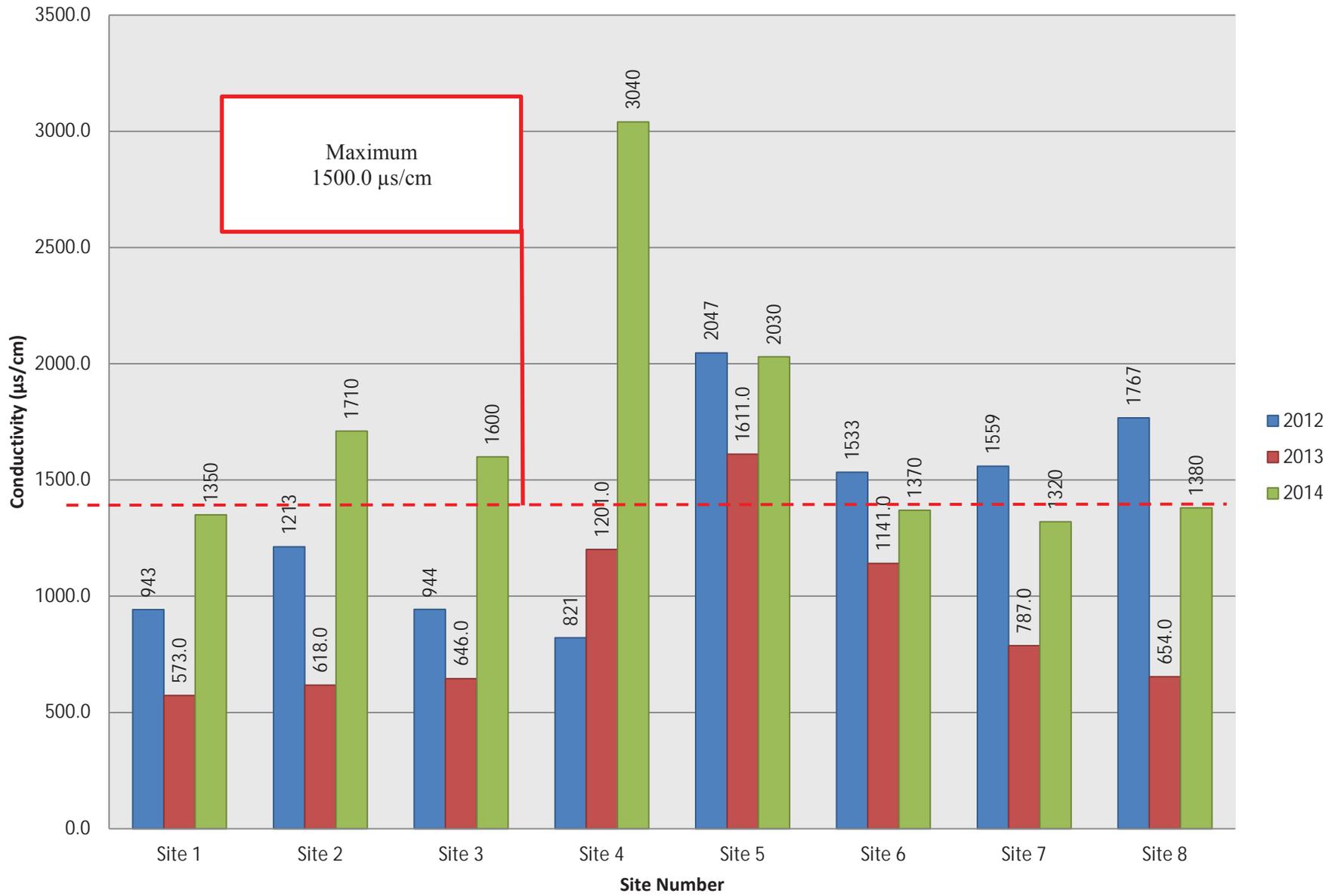
# Total Dissolved Solids (ppm)



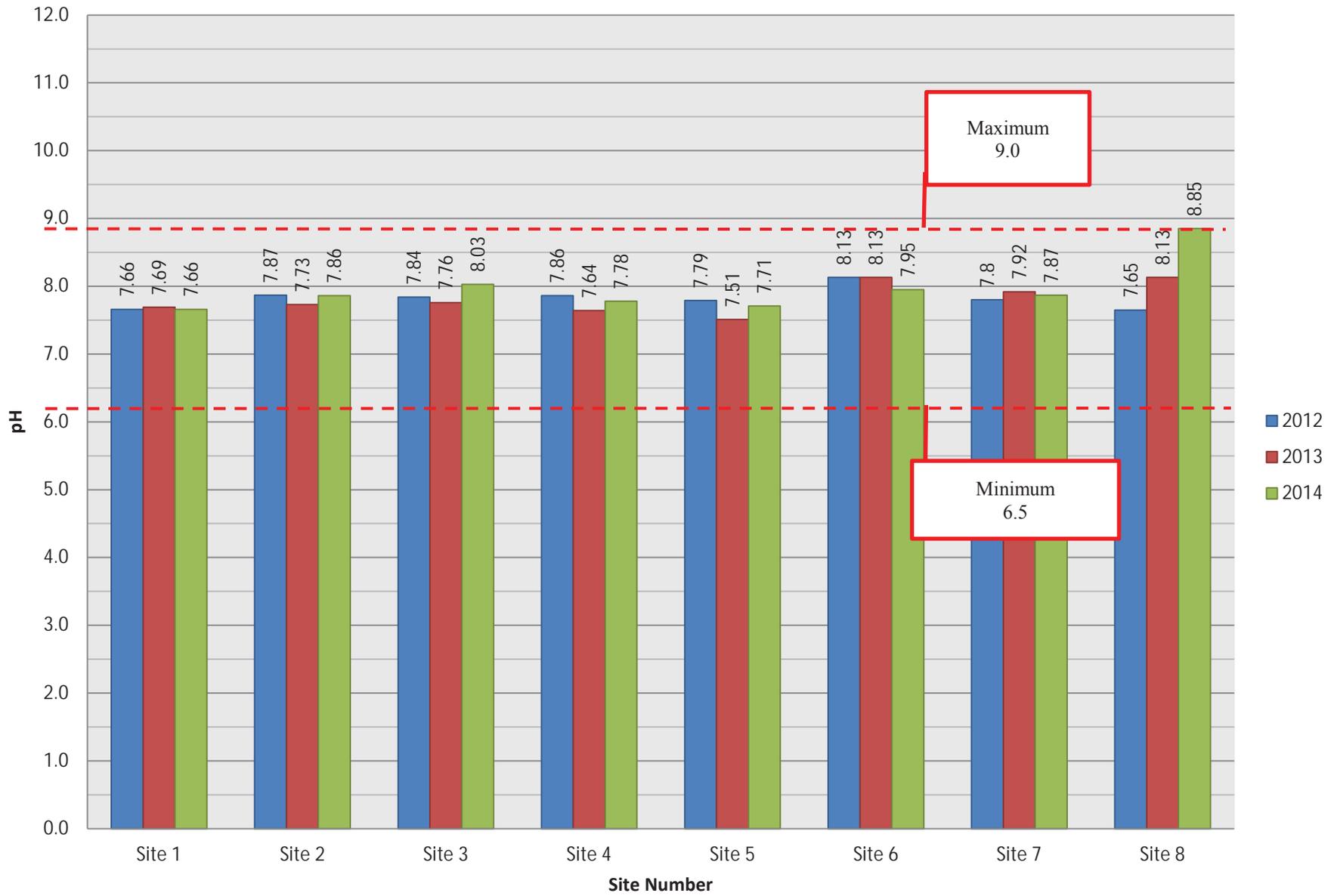
# Temperature (°F)



# Conductivity ( $\mu\text{s}/\text{cm}$ )



# pH



## Part D. Village Summary of Year 13 Stormwater Activities

The table below indicates the stormwater management activities that the Village plans to undertake during Year 13. Additional information about the BMPs and measurable goals that the Village will implement during Year 13 is provided in the section following the table.

**Note: X indicates BMPs that will be implemented during Year 13**

Year 13 Village of Mount Prospect	
<b>A. Public Education and Outreach</b>	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
	A.3 Public Service Announcement
X	A.4 Community Event
	A.5 Classroom Education Material
X	A.6 Other Public Education
<b>B. Public Participation/Involvement</b>	
	B.1 Public Panel
X	B.2 Educational Volunteer
	B.3 Stakeholder Meeting
X	B.4 Public Hearing
	B.5 Volunteer Monitoring
	B.6 Program Coordination
X	B.7 Other Public Involvement
<b>C. Illicit Discharge Detection and Elimination</b>	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
X	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
X	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 13 Village of Mount Prospect	
<b>D. Construction Site Runoff Control</b>	
X	D.1 Regulatory Control Program
	D.2 Erosion and Sediment Control BMPs
	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
	D.6 Site Inspection/Enforcement Procedures
X	D.7 Other Construction Site Runoff Controls
<b>E. Post-Construction Runoff Control</b>	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
	E.7 Other Post-Const Runoff Controls
<b>F. Pollution Prevention/Good Housekeeping</b>	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
	F.3 Municipal Operations Storm Water Control
X	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
X	F.6 Other Municipal Operations Controls

Please note that the most recent version of IEPA's General NPDES Permit No. ILR40 (Permit) expired on March 31, 2014, and that the new version of the Permit, which will likely be issued during Year 13, has not yet been released to the public. Although it is difficult to accurately predict the changes that IEPA will make to the new version of the Permit, the Village remains committed to performing activities related to the six MCMs described in the most recent version of the Permit. The stormwater management activities that the Village plans to undertake during Year 13 are described in detail in the Village's SWMP and in brief below. The Village will continue to use tracking forms to track the implementation of the BMPs described in its SWMP.

#### **A. Public Education and Outreach**

The Village is committing to implementing the Public Education and Outreach component of its SWMP. The Village's Public Education and Outreach program includes: the distribution of educational material to the community or conducting equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps that the public can take to reduce those impacts and supporting classroom education.

##### **A.1 Distribute Paper Materials**

See BMP information in Part B A.1 above.

*Measurable Goal(s): Maintain current practices. Implement, and track progress, of BMPs as described in the SWMP.*

##### **A.4 Community Event**

See BMP information in Part B A.4 above.

*Measurable Goal(s): Maintain current practices. Implement, and track progress, of BMPs as described in the SWMP.*

##### **A.6 Other Public Education**

See BMP information in Part B A.6 above.

*Measurable Goal(s): Maintain current practices. Implement, and track progress, of BMPs as described in the SWMP.*

#### **B. Public Participation/Involvement**

The Village is committing to implementing the Public Participation/Involvement component of its SWMP. The Village's Public Participation/Involvement program includes: maintaining a process for receiving and processing citizen input; attending and publicizing stakeholder meetings; presenting program information at a public meeting at least once annually.

##### **B.2 Educational Volunteer**

See BMP information in Part B B.2 above.

*Measurable Goal(s): Maintain current practices. Implement, and track progress, of BMPs as described in the SWMP.*

#### **B.4 Public Hearing**

See BMP information in Part B B.4 above.

*Measurable Goal(s): Maintain current practices. Implement, and track progress, of BMPs as described in the SWMP.*

#### **B.7 Other Public Involvement**

See BMP information in Part B B.7 above.

*Measurable Goal(s): Maintain current practices. Implement, and track progress, of BMPs as described in the SWMP.*

### **C. Illicit Discharge Detection and Elimination**

The Village will conduct activities related to the Illicit Discharge Detection and Elimination (IDDE) minimum control measure. According to the current General NPDES Permit No. ILR40, the Village's IDDE program must include:

- A storm sewer system map showing the locations of all outfalls and the names and locations of all waters that receive discharges from those outfalls;
- An ordinance or other regulatory mechanism that prohibits all non-storm water discharges into the storm sewer system and provides the authority for appropriate enforcement procedures and actions;
- A plan to detect and address all non-stormwater discharges, including illegal dumping, into the storm sewer system;
- A program to educate public employees, businesses, and the general public about the hazards associated with illegal discharges and improper disposal of waste; and,
- Periodic (annual is recommended) inspection of storm sewer outfalls for detection of non-stormwater discharges and illegal dumping.

#### **C.1 Storm Sewer System Map**

See BMP information in Part B C.1 above.

*Measurable Goal(s): Continue existing practices.*

#### **C.2: Regulatory Control Program**

See BMP information in Part B C.2 above.

*Measurable Goal(s): Continue existing practices.*

#### **C.3 Detection/Elimination Prioritization Plan**

See BMP information in Part B C.3 above.

*Measurable Goal(s): Continue existing practices.*

#### **C.4 Illicit Discharge Tracing Procedures**

See BMP information in Part B C.4 above.

*Measurable Goal(s): Continue existing practices.*

**C.5 Illicit Sources Removal Procedures**

See BMP information in Part B C. 5 above.

*Measurable Goal(s): Continue existing practices.*

**C.7 Dry Weather Screening**

See BMP information in Part B C. 7 above.

*Measurable Goal(s): Continue existing practices.*

**C.9 Public Notification**

See BMP information in Part B C. 9 above.

*Measurable Goal(s): Continue existing practices.*

**D. Construction Site Runoff Control**

**D.1 Regulatory Control Program**

See BMP information in Part B D.1 above.

*Measurable Goal(s): Continue existing practices.*

**D.2: Erosion and Sediment Control BMPs**

See BMP information in Part B D.2 above.

*Measurable Goal(s): Continue existing practices.*

**D.4 Site Plan Review Procedures**

See BMP information in Part B D.4 above.

*Measurable Goal(s): Continue existing practices.*

**D.6 Site Inspection/Enforcement Procedures**

See BMP information in Part B D.6 above.

*Measurable Goal(s): Continue existing practices.*

**E. Post-Construction Runoff Control**

**E.2 Regulatory Control Program**

See BMP information in Part B E.2 above.

*Measurable Goal(s): Continue existing practices.*

### **E.3 Long Term O & M Procedures**

See BMP information in Part B E.3 above.

*Measurable Goal(s): Continue existing practices.*

### **E.4 Pre-Construction Review of BMP Designs**

See BMP information in Part B E.4 above.

*Measurable Goal(s): Continue existing practices.*

### **E.5 Site Inspections During Construction**

See BMP information in Part B E.5 above.

*Measurable Goal(s): Continue existing practices.*

### **E.6 Post-Construction Inspections**

See BMP information in Part B E.6 above.

*Measurable Goal(s): Continue existing practices.*

## **F. Pollution Prevention/Good Housekeeping**

The Village is committing to implementing the Pollution Prevention/Good Housekeeping component of its stormwater management program. The Village's Pollution Prevention/Good Housekeeping program includes: the evaluation and improvement of municipal policies and procedures to reduce the discharge of pollutants from municipal activities and operations; and, a training program for municipal employees.

### **F.1 Employee Training Program**

See BMP information in Part B F.1 above.

*Measurable Goal(s): Maintain current practices. Implement, and track progress, of BMPs as described in the SWMP.*

### **F.2 Inspection and Maintenance Program**

See BMP information in Part B F.2 above.

*Measurable Goal(s): Maintain current practices. Implement, and track progress, of BMPs as described in the SWMP.*

### **F. 4 Municipal Operations Waste Disposal**

See BMP information in Part B F.4 above.

*Measurable Goal(s): Maintain current practices. Implement, and track progress, of BMPs as described in the SWMP.*

### **F.6 Other Municipal Operations Controls**

See BMP information in Part B F.6 above.

*Measurable Goal(s): Maintain current practices. Implement, and track progress, of BMPs as described in the SWMP.*

## **Part E. Notice of Qualifying Local Program**

*Not applicable (N/A)*

