



May 15, 2017

Illinois Environmental Protection Agency
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

Re: NPDES Phase II – Year Fourteen Annual Report
Prospect Heights MS4 Permit No. ILR40-0427

To Whom it May Concern:

On behalf of the City of Prospect Heights please find attached a completed IEPA Annual Facility Inspection Report for Storm Water Discharges from Municipal Separate Storm Sewer Systems (MS4) with supplemental information.

If you should have any questions or require additional information, please contact Steve Berecz at (847) 478-9700 or at sberecz@gha-engineers.com.

Sincerely,
City of Prospect Heights

A handwritten signature in black ink that reads 'Joe Wade'.

Joe Wade
City Administrator

cc: Steven Berecz, Gewalt Hamilton Associates, Inc.



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, 2016 To March, 2017

Permit No. ILR40 4027

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

Name: City of Prospect Heights Mailing Address 1: 8 N. Elmhurst Road
Mailing Address 2: County: Cook
City: Prospect Heights State: IL Zip: 60070 Telephone: (847) 398-6070
Contact Person: Joe Wade Email Address: jwade@prospect-heights.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 City of Prospect Heights

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

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

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

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

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

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

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

Joseph F. Wade
Owner Signature:

Joseph F. Wade
Printed Name:

5-15-17
Date:

City Administrator
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

**Illinois Environmental Protection Agency
Annual Facility Inspection Report
for General Permit for Discharges from Small MS4s**

**City of Prospect Heights
Permit No. ILR40 0427
Permit Year 14: March 2016 to March 2017**

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Part A. MS4 Changes to Best Management Practices, Year 14

Information regarding the status of all of the BMPs and measurable goals described in the City of Prospect Heights' SMPP is provided in the following table.

Note: X indicates BMPs that were implemented in accordance with the MS4's SMPP
✓ indicates BMPs that were changed during Year 14

Year 14	
MS4	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
X	A.3 Public Service Announcement
X	A.4 Community Event
	A.5 Classroom Education Material
	A.6 Other Public Education
B. Public Participation/Involvement	
X	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
X	B.4 Public Hearing
X	B.5 Volunteer Monitoring
X	B.6 Program Coordination
	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
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
X	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
X	C.8 Pollutant Field Testing
X	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 14	
MS4	
D. Construction Site Runoff Control	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
E. Post-Construction Runoff Control	
	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
F. Pollution Prevention/Good Housekeeping	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
X	F.3 Municipal Operations Storm Water Control
X	F.4 Municipal Operations Waste Disposal
X	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

Additional information about the changes that were made to the BMPs described in the City of Prospect Heights' SMPP during Year 14 is provided below.

In response to the new ILR40 permit, effective March 1, 2016, City of Prospect Heights reviewed and revised its SMPP. Year 14 activities were done in accordance with the previous SMPP. Commitments described for Year 15 are a reflection of the revised SMPP.

A.6 Other Public Education

Measurable Goal(s):

- Make educational materials available online and at the City Hall for residents to take.

Year 14 MS4 activities:

- A handout containing several Homeowner Best Management Practices is made available at the City Hall, and is included in the SMPP as an appendix. Additional educational resources are located at <http://www.gha-engineers.com/ms4/educational/> which the City has a link to on its website.

B.6 Program Coordination

Measurable Goal(s):

- Preparation of a Stormwater Management Program Plan (SMPP).

Year 14 MS4 activities:

- A SMPP was prepared by the City during Year 14.

C.4 Illicit Discharge Tracing Procedures

Measurable Goal(s):

- Develop a plan to detect and address non-storm water discharges and illegal dumping.

Year 14 MS4 activities:

- A web page was developed, which is linked on the City website, for residents to report a potential illicit discharge: <http://www.gha-engineers.com/ms4/contact/>

D.7 Other Construction Site Controls

Measurable Goal(s):

- Develop a plan to detect and address non-storm water discharges and erosion.

Year 14 MS4 activities:

- A web page was developed, which is linked on the City website, for residents to report an erosion control issue: <http://www.gha-engineers.com/ms4/contact/>

Part B. MS4 Status of Compliance with Permit Conditions, Year 14

Stormwater Management Activities, Year 14

Please note that IEPA issued a new version of its General NPDES Permit No. ILR40 (Permit), effective on March 1, 2016. The bulk of MS4 efforts during Year 14 consisted on reviewing and revising its SMPP to comply with the new permit conditions. The SMPP can be viewed at the following link: www.gha-engineers.com/ms4.

The stormwater management activities that the MS4 performed during Year 14, including the MS4's BMPs and measurable goals, are described in detail in the MS4's previous SMPP and summarized below. A copy of the annual tracking form is included at the end of Part B of this report.

A. Public Education and Outreach

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.

Year 14 MS4 activities:

- The City continues to implement the BMPs described in its SMPP and to track progress in implementing its stormwater management program.

B. Public Participation/Involvement

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.

Year 14 MS4 activities:

- The City continues to implement the BMPs described in its SMPP and to track progress in implementing its stormwater management program.

C. Illicit Discharge Detection and Elimination

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.

Year 14 MS4 activities:

- The City continues to implement the BMPs described in its SMPP and to track progress in implementing its stormwater management program.

D. Construction Site Runoff Control

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.
- The City supports the MWRDs enforcement of the WMO.

Year 14 MS4 activities:

- The City continues to implement the BMPs described in its SMPP and to track progress in implementing its stormwater management program.
- The City supports the MWRDs enforcement of the WMO.

E. Post-Construction Runoff Control

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.
- The City supports the MWRDs enforcement of the WMO.

Year 14 MS4 activities:

- The City continues to implement the BMPs described in its SMPP and to track progress in implementing its stormwater management program.
- The City supports the MWRDs enforcement of the WMO.

F. Pollution Prevention/Good Housekeeping

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.

Year 14 MS4 activities:

- The City continues to implement the BMPs described in its SMPP and to track progress in implementing its stormwater management program.

Please see the attached tracking form on the following page.

Stormwater Management Program Assessment, Year 14

An overall assessment of the MS4's stormwater management program and the appropriateness of its BMPs is provided below. The City of Prospect Heights revised its SMPP to coincide with the March 2016 ILR40 permit.

The City collected water quality sampling data during Year 14, as described below, and reviewed the data to determine whether or not it provides any evidence of reduced pollutant loads or improved water quality. The data collected from water quality sampling locations upstream and downstream of the City's stormwater discharges show either no change or a decrease in the concentrations of all water quality parameters between the upstream and downstream sampling locations.

Part C. MS4 Information and Data Collection Results, Year 14

Annual Monitoring and Data Collection, Year 14

Information and data that the MS4 collected to meet the monitoring requirement of the version of IEPA's General NPDES Permit No. ILR40 that applied to the reporting period are summarized below.

The City of Prospect Heights is located outside of the current watershed-wide monitoring efforts. The City performed water quality monitoring at 3 locations along McDonald Creek, which is tributary to the Des Plaines River. The data collected from these water quality sampling locations will be compared with subsequent years on an annual basis to determine whether the BMPs and stormwater management program are appropriate.

IDDE Monitoring and Data Collection, Year 14

Information and data that the MS4 collected as part of its illicit discharge detection and elimination program are summarized below.

The City of Prospect Heights performs outfall inspections for maintenance purposes. In Year 15, the City plans to include dry-weather inspections for illicit discharge detection in its routine inspection.

Part D. MS4 Summary of Year 15 Stormwater Activities

The table below indicates the stormwater management activities that the MS4 plans to undertake during Year 15. Additional information about the stormwater management activities that the MS4 will perform during Year 14 is provided in the section following the table.

Note: X indicates BMPs that will be implemented during Year 15

Year 15	
MS4	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
X	A.3 Public Service Announcement
X	A.4 Community Event
	A.5 Classroom Education Material
X	A.6 Other Public Education
B. Public Participation/Involvement	
X	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
X	B.4 Public Hearing
X	B.5 Volunteer Monitoring
X	B.6 Program Coordination
	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
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
X	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
X	C.8 Pollutant Field Testing
X	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 15	
MS4	
D. Construction Site Runoff Control	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
X	D.7 Other Construction Site Runoff Controls
E. Post-Construction Runoff Control	
	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
F. Pollution Prevention/Good Housekeeping	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
X	F.3 Municipal Operations Storm Water Control
X	F.4 Municipal Operations Waste Disposal
X	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

Stormwater Management Activities, Year 15

During Year 15, the City of Prospect Heights plans to continue to support and supplement QLP efforts, as described in detail in the MS4's SMPP and in brief below. The City's SMPP can be viewed at www.gha-engineers.com/ms4.

A. Public Education and Outreach

The MS4 utilizes a variety of methods to educate and provide outreach to the public about the importance of managing pollutants that potentially could enter the stormwater system. The MS4's Public Education and Outreach program includes: the distribution of educational material via take-away racks, municipal newsletters, website, at outreach events and by supporting efforts of the West Cook County Solid Waste Agency (WCCSWA).

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.

B. Public Participation/Involvement

The MS4 utilizes a variety of methods to allow input from citizens during the development and implementation of the SMPP. The MS4's Public Participation/Involvement program includes: maintaining a process for receiving and processing citizen input/complaints; attending and publicizing stakeholder meetings, identification of environmental justice areas, and presenting program information at a public meeting at least once annually.

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.

C. Illicit Discharge Detection and Elimination

The MS4 will conduct activities toward the identification and removal of direct connections of pollutants into the storm water management systems (including wetlands and receiving waters). The program includes the following primary components.

- A outfall map showing the locations of outfalls and the names and locations of all waters that receive discharges from those outfalls;
- An ordinance 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, into the storm sewer system;
- Periodic inspection of outfalls for detection of non-stormwater discharges and illegal dumping (5-yr rescreening schedule).
- Annual inspection of all High Priority Outfalls.

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.

D. Construction Site Runoff Control

Cook County has adopted a countywide Watershed Management Ordinance (WMO), enforced by the Metropolitan Water Reclamation District (MWRD) of Greater Chicago that establishes the minimum stormwater management requirements for development in Cook County. The WMO establishes countywide standards for runoff maintenance, detention sites, soil erosion and sediment control, inspections, water quality, wetlands and floodplains. The WMO, which is administered and enforced within the community by the MWRD establishes standards for construction site runoff control.

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.
- Support the MWRD's enforcement of the WMO, to ensure that all applicable developments are in compliance with the WMO.

E. Post-Construction Runoff Control

The countywide WMO establishes the minimum stormwater management requirements for development in Cook County. BMP standards are incorporated into the WMO to implement stormwater management strategies that minimize increases in stormwater runoff rates, volumes, and pollutant loads from development sites. The SMPP also includes support of adopted Watershed Plan recommendations and inspection procedures for streambanks and shorelines, streambeds, and detention/retention ponds.

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.
- Support the MWRD's enforcement of the WMO, to ensure that all applicable developments are in compliance with the WMO.

F. Pollution Prevention/Good Housekeeping

The MS4 is committed to implementing the Pollution Prevention/Good Housekeeping component of its SMPP. The MS4 is responsible for the care and upkeep of the general facilities, municipal roads, its general facilities and associated maintenance yards. The MS4'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.

Measurable Goal(s):

- Implement BMPs and track progress of BMP implementation, as described in the SMPP.

Part F. MS4 Construction Projects Conducted During Year 14

N/A

Appendix

Year 14 Tracking Form

Stormwater Management Program Plan (SMPP)

1. Recycling event dates, location, and amount collected:

2. Catch basins cleaned*: _____ Amount of material removed : _____
3. Catch basins repaired*: _____
4. Outfalls inspected*: 18
5. Outfalls repaired*: _____
6. Miles of roadway cleaned: _____ Amount of material removed: _____
7. New township projects >1 acre (name, location, size): _____
8. Vehicle maintenance – Amount of material removed:
 - a. Oil: _____
 - b. Antifreeze: _____
 - c. Other Fluids: _____
 - d. Tires: _____
 - e. Batteries: _____
9. Ice removal equipment maintenance and calibration:
 - a. Vehicle Description: _____ Date maintenance performed: _____
 - b. Vehicle Description: _____ Date maintenance performed: _____
10. Quantities of salt, brine, beet juice and sand used:
 - a. Salt: _____
 - b. Brine: _____
 - c. Beet Juice: _____
 - d. Sand: _____
11. Employee training: (employee name, date, location and subject matter)

12. Distribution of paper materials: (title of document, date and number distributed)
 - a. The City posts the MS4 Annual Report on its website
 - b. MS4 Program information is posted on the City's website at <http://www.prospect-heights.il.us/257/Storm-Water-Management>
13. Workshops/watershed planning and stakeholder meetings: (date, location, subject matter and who attended)
GHA attends Lower Des Plaines watershed meetings

14. Illicit discharge complaints (phone, email, walk in, mail):

Newsletter, handouts at meetings, flyers, handouts at Twp offices.

STORMWATER MANAGEMENT PROGRAM PLAN



CITY OF PROSPECT HEIGHTS

COOK COUNTY, ILLINOIS

MARCH 23, 2017

Prepared by:



625 Forest Edge Drive
Vernon Hills, Illinois 60061
(847) 478-9700

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ILR40 Permit Requirements

The ILR40 NPDES Permit for MS4s requires that the City of Prospect Heights develop, implement, and enforce a stormwater management program plan (SMPP) designed to reduce the discharge of pollutants from the City to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements of the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter 1) and the Clean Water Act. The City's SMPP must include the six minimum control measures, described below.

6 Minimum Control Measures

The 6 minimum control measures to be included in the permittee's storm water management program are described below:

1. Public Education and Outreach on Storm Water Impacts

- a. The City of Prospect Heights provides copies of the handout "Make Your Home the Solution to Stormwater Pollution", adapted from the IEPA, at the City Hall. This handout is included in Appendix B of this SMPP. The City also maintains a link to the MS4 webpage on its website, <http://www.gha-engineers.com/ms4/>, which contains educational links and materials. The following topics are covered by these educational resources:
 - i. Information on effective pollution prevention measures to minimize the discharge of pollutants from private property and activities into the storm sewer system, on the following topics:
 - A. Storage and disposal of fuels, oils and similar materials used in the operation of or leaking from, vehicles and other equipment (SWANCC website);
 - B. Potential impacts/effects on storm water discharge due to climate change;
 - C. Homeowner tips for improving stormwater runoff; and
 - D. Winter de-icing material storage and use.
 - ii. Information about green infrastructure strategies such as green roofs, rain gardens, rain barrels, bioswales, and permeable pavement that mimic natural processes and direct storm water to areas where it can be infiltrated, evaporated or reused:
 - A. EPA webpage "What is Green Infrastructure?"
 - B. Link to "Homeowners Best Practices"
 - C. EPA's Menu of Best Management Practices
 - iii. Information on the benefits and costs of such strategies and provide guidance to the public on how to implement them:
 - A. EPA webpage "What You Can Do: In Your Home"- tips for homeowner best management practices
 - B. EPA webpage "What is Green Infrastructure?"

- b. In addition to the Stormwater handouts available at the City Hall, the City of Prospect Heights has posted a link to the EPA's page on the NPDES program on its website. The City also includes an occasional posting in the City newsletter regarding stormwater and/or flooding.
- c. The City annually evaluates its public education and outreach BMPs and measurable goals, and reports on this evaluation in the Annual Report to the IEPA.

2. Public Involvement/Participation

- a. The City of Prospect Heights complies with State and local public notice requirements when implementing a public involvement/ participation program.
- b. The City of Prospect Heights holds a minimum of one public meeting annually for the public, to provide input on the City's SMPP and overall MS4 program. During the meeting, the City Engineer/Consultant will give a presentation on the SMPP, including status of compliance, BMPs and measurable goals that the City has defined, and results of the visual screening of the outfall. This requirement is met as part of a regularly scheduled board meeting.
- c. The City of Prospect Heights has reviewed environmental justice maps for areas within its jurisdiction. These maps are included in Appendix D. Block group 170318025051, just outside the Chicago Executive Airport, falls in a higher percentile for most environmental/demographic indicators. Information on environmental justice concerns may be found at <http://www.epa.gov/environmentaljustice/>.
- d. The City annually evaluates its public involvement/participation BMPs and measurable goals, and reports on this evaluation in the Annual Report to the IEPA.
- e. The City participates in the Lower Des Plaines River Watershed Council meetings. The MWRD completed a Detailed Watershed Plan for the Lower Des Plaines River Watershed in 2011, which documents stormwater problem areas and evaluates potential solutions. See Appendix H for exhibits of various proposed projects located within Prospect Heights. The Detailed Watershed Plan should be considered and utilized by the City whenever new development is proposed, particularly in stormwater problem areas, so that stormwater projects may be implemented.

3. Illicit Discharge Detection and Elimination (IDDE)

- a. The City of Prospect Heights has developed a program to detect and eliminate illicit connections or discharges in the MS4, including illegal dumping. The City has 7 outfalls which discharge to Crystal Creek, a tributary of the Des Plaines River. The IDDE program includes:
 - i. An annual dry weather inspection (visual) of the 18 outfalls;
 - ii. A contact/outreach [form](#) on the MS4 webpage (linked on the City website) for the public to report a potential illicit discharge;

- iii. The Public Works Department phone number posted on the City website where residents may report potential illicit discharge emergencies/spills/dumping;
 - iv. Annual water quality testing of the parameters required by the ILR40 permit, at two upstream locations and one downstream location along McDonald Creek.
- b. The City of Prospect Heights has developed a storm sewer system atlas, showing the location of the outfall and the location of all waters that receive discharges from those outfalls. The storm sewer system map will be updated as necessary, to include any modifications to the sewer system. The storm sewer atlas is included as Appendix C.
 - c. Non-storm water discharges into the City's storm sewer system are prohibited by the City's Sewer Ordinance (8-5-12) and Stormwater Runoff Ordinance (8-1-3). As written in the ordinance, a penalty in the form of a fine will be imposed for either cause or permitting of non-stormwater discharges. These ordinances are included in Appendix F.
 - d. In addition to its IDDE detection/elimination program and Sewer Ordinance, the City educates public employees, businesses, and the general public about the hazards associated with illicit discharges via handouts at the City Hall, and educational links on the MS4 webpage, as previously discussed.
 - e. The City annually evaluates its illicit discharge detection and elimination BMPs and measurable goals, and reports on this evaluation in the Annual Report to the IEPA.

4. Construction Site Storm Water Runoff Control

- a. The City of Prospect Heights implements the following procedures for Construction Site Stormwater Runoff Control:
 - i. The City of Prospect Heights complies with the ILR10 NPDES Permit for Storm Water Discharges from Construction Activities, which is applicable for any development or construction activity resulting in a land disturbance greater than or equal to 1 acre.
 - A. All regulated construction sites have a storm water pollution prevention plan (SWPPP) that meets the requirements of the ILR10 Permit, including management practices, controls, and other provisions at least as protective as the requirements contained in the Illinois Urban Manual, 2014, or as amended including green infrastructure techniques where practicable;
 - B. Sites requiring a SWPPP will have a signed certification on site, as well as a copy of the permit available;
 - C. Inspections are performed in compliance with the ILR10 permit.
 - ii. City of Prospect Heights's Building & Development Department oversees the entire permit process for any residential, commercial, and industrial construction throughout the City. The permit process requires that the property owner or contractor submit a project proposal/plans, which are reviewed for code compliance. Upon correction and approval of the construction documents, the permit will be issued. The contractor(s) shall register with the city prior the issuance of the permit. Inspection(s) are required throughout various stages of the project; and approval is expected prior to continuing onto the next phase.

- A. The City's Building Code (Chapter 4) includes International, National, and State codes regarding building, property maintenance, and safety, for residential, commercial, and industrial properties.
 - B. The City's Soil Erosion and Sediment Control Code (Chapter 7) includes requirements for erosion control for general site development, and for preservation of drainage and waterways. The Code requires that various measures be taken to control erosion and sedimentation that are adequate to assure that sediment is not transported from the site by a storm event of 10-year frequency or less. These requirements apply to all development activities. All projects involving development in a floodway must have an erosion control plan for disturbed areas. A copy of this code is included in Appendix F.
- iii. All Cook County communities are governed by the Metropolitan Water Reclamation District of Greater Chicago's (MWRD) Watershed Management Ordinance (WMO), which sets requirements for Erosion and Sediment Control. This is intended to ensure that the construction site operator designs, installs, and maintains effective erosion controls and sediment controls to minimize the discharge of pollutants. Such controls are designed, installed, and maintained to:
 - A. Control storm water volume and velocity within the site to minimize soil erosion;
 - B. Control storm water discharges, including both peak flow rates and total storm water volume, to minimize erosion at outlets and to minimize downstream channel and stream bank erosion;
 - C. Minimize the amount of soil exposed during construction activity;
 - D. Minimize the disturbance of steep slopes;
 - E. Minimize sediment discharges from the site. The design, installation and maintenance of erosion and sediment controls must address factors such as the amount, frequency, intensity and duration of precipitation, the nature of resulting storm water runoff, and soil characteristics, including the range of soil particle sizes expected to be present on the site;
 - F. Provide and maintain natural buffers around surface waters, direct storm water to vegetated areas to increase sediment removal, and maximize storm water infiltration, unless infeasible; and
 - G. Minimize soil compaction and preserve topsoil, unless infeasible.
- iv. The City of Prospect Heights complies with MWRD's enforcement of the WMO, which requires all waste generated from construction site development (including building waste, concrete truck washout, chemicals, litter, sanitary waste, etc.) to be properly disposed of and prevented from entering the MS4 via stormwater runoff.
- v. Site plan reviews are conducted by the City Engineer for all major developments, which incorporate consideration of potential water quality impacts and site plan review of individual pre-construction site plans by the permittee to ensure consistency with local sediment and erosion control requirements;

- vi. The City Engineer/Enforcement Official is responsible for plan review and floodplain development permit issuance for all development activities within the Special Flood Hazard Area within the city's jurisdiction, and no development in a floodway can occur without a permit from the City Engineer;
- vii. The City of Prospect Heights maintains a public comment form on the MS4 page on its website, where the public may report on potential stormwater discharges from construction sites.
- b. The City complies with all requirements of the ILR10 permit and the WMO, and enforces penalties for non-compliance with its erosion control ordinance. The City Engineer is responsible for obtaining from the applicant, copies of all federal, state, and local permits that may be required. The enforcement officials (Chief Inspector and City Engineer) will not approve a development plan until all other permits have been obtained.
- c. The City annually evaluates its construction site storm water control BMPs and measurable goals, and reports on this evaluation in the Annual Report to the IEPA.

5. Post Construction Storm Water Management in New Development and Redevelopment

- a. For all new development and redevelopment, the City of Prospect Heights supports the MWRD's requirements in the WMO for reduction of the discharge of pollutants and the volume and velocity of storm water flow. The WMO has established standards for post construction stormwater management, including volume control BMPs. The WMO requires a Stormwater Management Submittal be included with the Watershed Management Permit, which includes following elements (when applicable): Site Runoff Plan, Stormwater Calculations, Base Flood Elevation Determination, Volume Control Plan, and Detention Facility Plan.
 - i. The City of Prospect Heights supports the MWRD's enforcement of Permanent Erosion Control Requirements, described in Article 4 of the WMO. Permanent erosion control practices are maintained until permanent stabilization is achieved.
 - ii. A Maintenance and Monitoring Plan Submittal, if required, plan must include all measures appropriate for the post-construction phase. These measures are described in Article 9 of the WMO.
- b. The City's Development Permit code (7-1-8-1), included in Appendix F, requires that requires that final stabilization and restoration measures must be included in the SESC plan for detention in floodplains, for disturbed areas in flood fringe areas, and in designated floodways. This plan shall also include a description of final stabilization and revegetation measures, and the identification of a responsible party to ensure post-construction maintenance.
- c. The City of Prospect Heights, through its Building & Development department, ensures that all regulated construction sites have post-construction management plans that meet or exceed the requirements the ILR10 NPDES permit including management practices, controls, and other provisions at least as protective as the requirements contained in the most recent version of the Illinois Urban Manual, 2014.

- d. The City annually evaluates its post-construction storm water management BMPs and measurable goals, and reports on this evaluation in the Annual Report to the IEPA.

6. Pollution Prevention/Good Housekeeping for Municipal Operations

- a. The City of Prospect Heights Public Works Department is responsible for City operations and maintenance activities. These maintenance activities include: street sweeping, snow and ice control, storm and wastewater collection systems, grounds maintenance, vehicle maintenance and street maintenance throughout the City. The Public Works department oversees the maintenance of streets, curbs, gutters, and storm sewers to ensure that they are smooth, clean, safe, and structurally sound for vehicular travel in a variety of weather conditions.
- b. The City of Prospect Heights discharges to McDonald Creek, which is tributary to the Des Plaines River. The Des Plaines River is listed as impaired for chloride. The City implements various BMPs to reduce salt usage on roadways, to reduce the amount of chloride entering the waterway. The City accomplishes this through:
 - 1. Participation in the Lower Des Plaines River Watershed Council meetings, where chloride reduction strategies and updates are routinely discussed;
 - 2. The appropriate City staff members have attended APWA seminars for Snow and Ice Management, and have reviewed additional de-icing Best Management Practice training materials.
 - 3. Tracking salt usage annually using the tracking form included in Appendix G.
- c. The City of Prospect Heights, in addition to compliance with the NPDES program, maintains compliance with the National Flood Insurance Program's (NFIP) Community Rating System (CRS) program. The CRS program incentivizes community floodplain management activities to reduce flood risk, and encourages a comprehensive approach to floodplain management.
- d. The City annually evaluates its pollution prevention/good housekeeping for municipal operations BMPs and measurable goals, and reports on this evaluation in the Annual Report to the IEPA.

Appendix A: Annual Schedule of MS4 Activities

Year 14 (March 2016 – February 2017) MS4 Schedule

Dates	Activity
March – May 2016	Compile all Year 13 Monthly Tracking Information (Municipal Operations)
	Draft Year 13 Annual Report
	Village begins Year 14 Tracking (Municipal Operations)
June 1, 2016	Year 13 Annual Report due to IEPA, post on website
Summer 2016	Visual Dry Weather Outfall Screening
	Water Quality Inspection
Fall 2016	Presentation to Village Board & Public
	Contractor/Staff Attends De-Icing Workshop
Winter 2016/17	Continue Year 14 Monthly Tracking
March – May 2017	Compile all Year 14 Monthly Tracking Information (Municipal Operations)
	Draft Year 14 Annual Report
June 1, 2017	Year 14 Annual Report due to IEPA, post on website

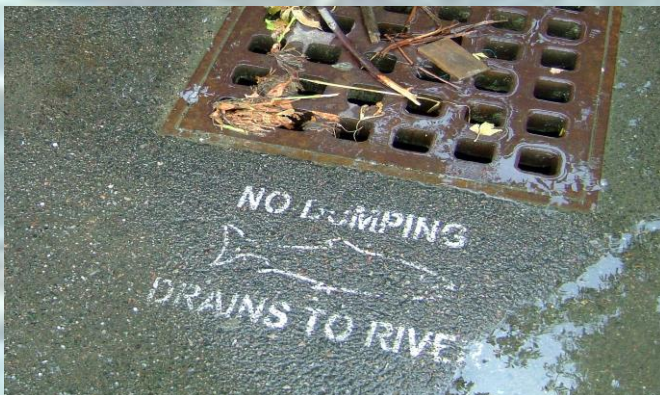
Appendix B: Educational Materials

The educational handout located in this section is provided in hard copy form at the City Hall, for residents to take and use. Please also see the MS4 webpage, located at www.gha-engineers.com/ms4 for additional online educational resources.

Make Your Home the Solution to Stormwater Pollution!

As stormwater flows over driveways, lawns, and sidewalks, it picks up debris, chemicals, dirt, and other pollutants. Stormwater can flow into a storm sewer system or directly into a lake, stream, river, or wetland. Anything that enters a storm sewer system is discharged untreated into the waterbodies we use for swimming, fishing, and providing drinking water. Polluted runoff is the nation's greatest threat to clean water.

By practicing healthy household habits, homeowners can keep common pollutants like pesticides, pet waste, grass clippings, and automotive fluids off the ground and out of stormwater. Adopt these healthy household habits and help protect lakes, streams, rivers, and wetlands. Remember to share the habits with your neighbors!



A homeowner's guide to healthy habits for clean water

Lawn and Garden

- Use pesticides and fertilizers sparingly. When use is necessary, use these chemicals in the recommended amounts. Avoid application if the forecast calls for rain; otherwise, chemicals will be washed into your local stream.
- Select native plants and grasses that are drought and pest resistant. Native plants require less water, fertilizer, and pesticides.
- Sweep up yard debris, rather than hosing down areas. Compost or recycle yard waste when possible.
- Don't overwater your lawn. Water during the cool times of the day, and don't let water run off into the storm drain.
- Cover piles of dirt and mulch being used in landscaping projects to prevent these pollutants from blowing or washing off your yard and into local waterbodies. Vegetate bare spots in your yard to prevent soil erosion.

Vehicle and Garage

- Use a commercial car wash or wash your car on a lawn or other unpaved surface to minimize the amount of dirty, soapy water flowing into the storm drain.
- Check your car, boat, motorcycle, and other machinery and equipment for leaks and spills. Make repairs as soon as possible. Clean up spilled fluids with an absorbent material like kitty litter or sand, and don't rinse the spills into a nearby storm drain. Remember to properly dispose of the absorbent material.
- Recycle used oil and other automotive fluids at participating service stations. Don't dump these chemicals down the storm drain or dispose of them in your trash.
- Properly store pool and spa chemicals to prevent leaks and spills, preferably in a covered area to avoid exposure to stormwater.
- Store salt for de-icing in a covered area, in an airtight container to maintain maximum effectiveness. Use sparingly - about a handful of rock salt per square yard.



Pet Care

- When walking your pet, remember to pick up the waste and dispose of it properly. Flushing pet waste is the best disposal method.
- Leaving pet waste on the ground increases public health risks by allowing harmful bacteria and nutrients to wash into the storm drain and eventually into local waterbodies.



Swimming Pool and Spa

- Drain your swimming pool only when a test kit does not detect chlorine levels.
- Whenever possible, drain your pool or spa into the sanitary sewer system.
- Properly store pool and spa chemicals to prevent leaks and spills, preferably in a covered area to avoid exposure to stormwater.

Home Repair and Improvement

- Before beginning an outdoor project, locate the nearest storm drains and protect them from debris and other materials.
- Sweep up and properly dispose of construction debris such as concrete and mortar.
- Use hazardous substances like paints, solvents, and cleaners in the smallest amounts possible and follow the directions on the label. Clean up spills immediately and dispose of waste safely. Store substances properly to avoid leaks and spills.
- Purchase and use nontoxic, biodegradable, recycled, and recyclable products whenever possible.
- Clean paint brushes in a sink, not outdoors, filter and reuse paint thinner when using oil based paints. Properly dispose of the excess paints through a household hazardous waste collection program, or donate unused paint to local organizations.
- Reduce the amount of paved area and increase the amount of vegetated areas in your yard. Use native plants in you landscaping to reduce the need for watering during dry periods. Consider directing downspouts away from paved surfaces onto lawns and other measures to increase infiltration and reduce polluted runoff.

Septic System Use and Maintenance

- Have your septic system inspected by a professional at least every 3 years, and have the septic tank pumped as necessary (usually every 3 to 5 years).
- Care for the septic system drainfield by not driving or parking vehicles on it. Plant only grass over and near the drainfield to avoid damage from roots.
- Flush responsibly. Flushing household chemicals like paint, pesticides, oil, and antifreeze can destroy the biological treatment taking place in the system.
- Other items, such as diapers, paper towels, and cat litter, can clog the septic system and potentially damage components.



For more information, visit

www.gha-engineers.com/ms4

or

<http://www.prospect-heights.il.us/>

To report pollution of the storm system, go to the websites listed on this page or call the Prospect Heights Police Non-Emergency number at (847) 398-5511

Remember: Only rain down the drain!

City of Prospect Heights
8 N. Elmhurst Road
Prospect Heights, IL 60070

Appendix C: City Storm Sewer Atlas Map

The City of Prospect Heights storm sewer atlas map is updated and revised as necessary.

Appendix D: Environmental Justice Maps

1. Lead Paint Indicator (Homes Built Before 1960)
2. Ozone
3. Particulate Matter 2.5
4. Respiratory Hazard Index
5. Superfund Proximity
6. Traffic Proximity
7. Water Discharge Proximity

Appendix E: Water Quality Testing Locations

Three (3) sites are tested annually:

1. Wheeling

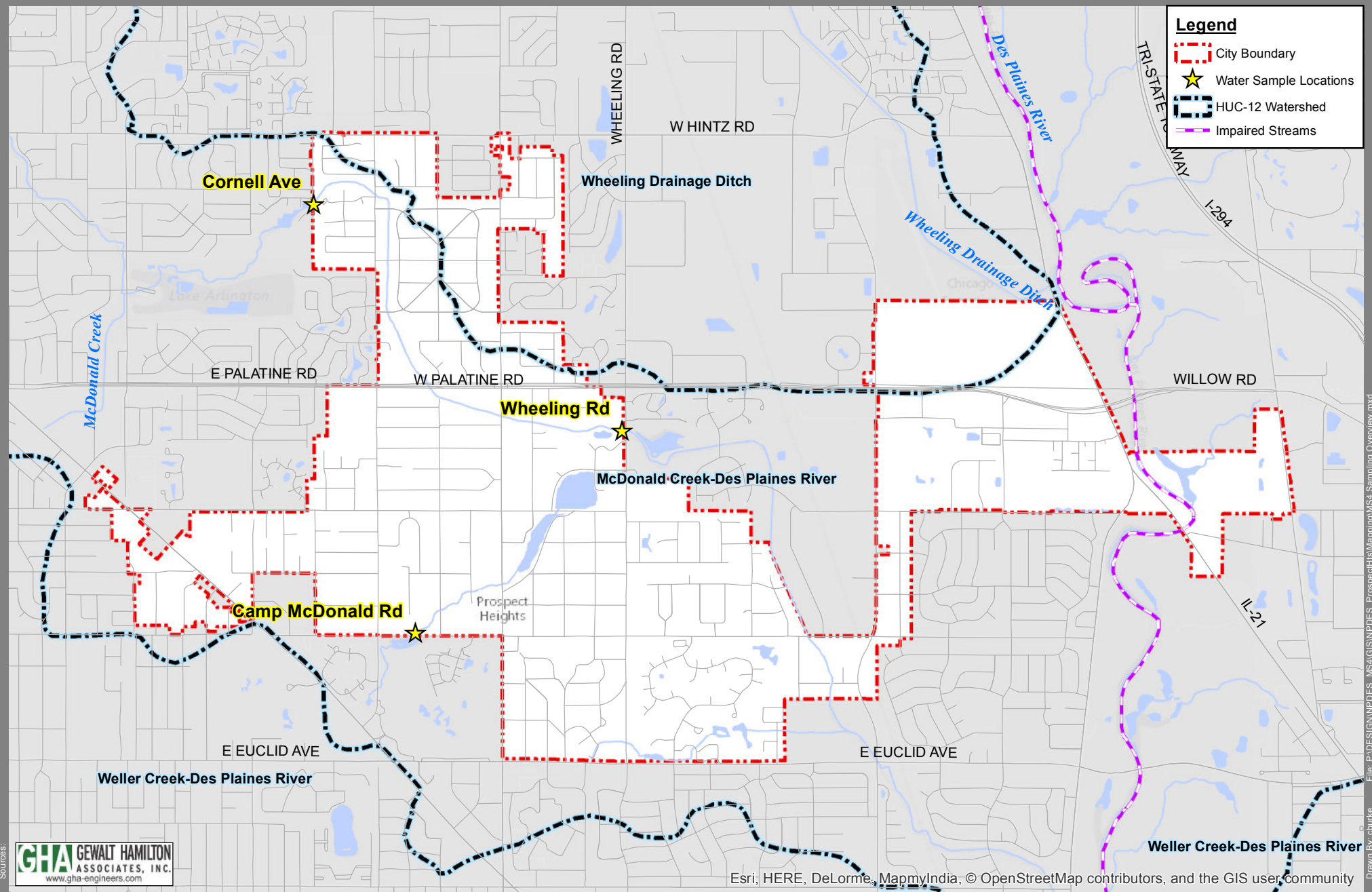
Located on Wheeling road nearly directly between where the road intersects with Woodcreek Road and Kenilworth Avenue. The site is upstream of the Des Plaines River.

2. Cornell

Located on N. Cornell Road almost directly between where the road intersects with Harbour Drive and Creekside Street. This site is upstream of the Des Plaines River.

3. Camp McDonald

Located just north of Camp McDonald Road to the West of where the road intersects with Elm Street. This site is upstream of the Des Plaines River.



Appendix F: City Codes

4-7-1: Soil Erosion and Sedimentation Control

8-1-3: Storm Water Runoffs

8-5-12: Use of Public Sewers

Appendix G: Yearly Tracking Form

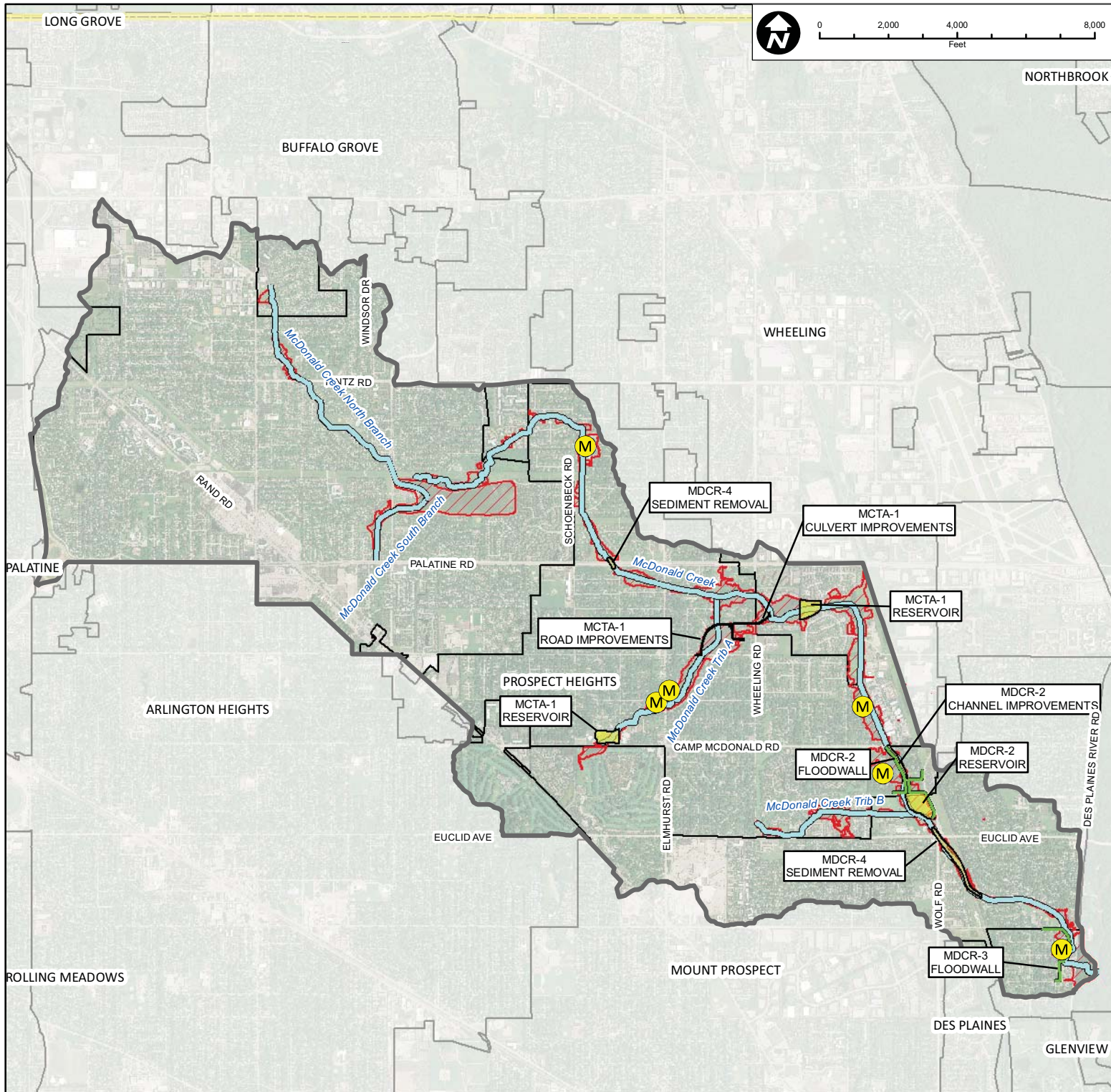
This form is used for tracking municipal activities and operations.

Appendix H: Lower Des Plaines River Watershed Plan – Proposed Projects

The entire Detailed Watershed Plan can be found here:

https://www.mwrdd.org/irj/go/km/docs/documents/MWRDD/internet/protecting_the_environment/Stormwater_Management/htm/Lower_Des_Plaines_River_Watershed/Lower_Des_Plaines_River_DWP.htm

Map Document: Z:\MWR\DC\08-0043 Phase B\GIS\Exhibits\Meeting Maps\Feehanville Willow McDonald Creeks\McDonald Creek Overall.mxd
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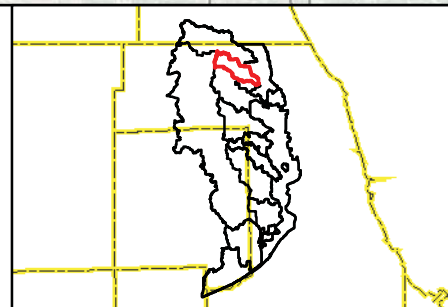


- 100-Year Storm Event Flood Inundation Without Project
- Reservoir
- Channel Improvements
- Culvert/Bridge Modification
- Levee/Floodwall
- Road Improvements

- Approximate Creek Channel Location
- Municipal Boundary
- Watershed Boundary

Problem Areas

- Modeled
- Regional



CLIENT:
**METROPOLITAN WATER RECLAMATION
DISTRICT OF GREATER CHICAGO**

TITLE:
**LOWER DES PLAINES RIVER DETAILED
WATERSHED PLAN
MCDONALD CREEK WATERSHED
TRIBUTARY OVERVIEW**

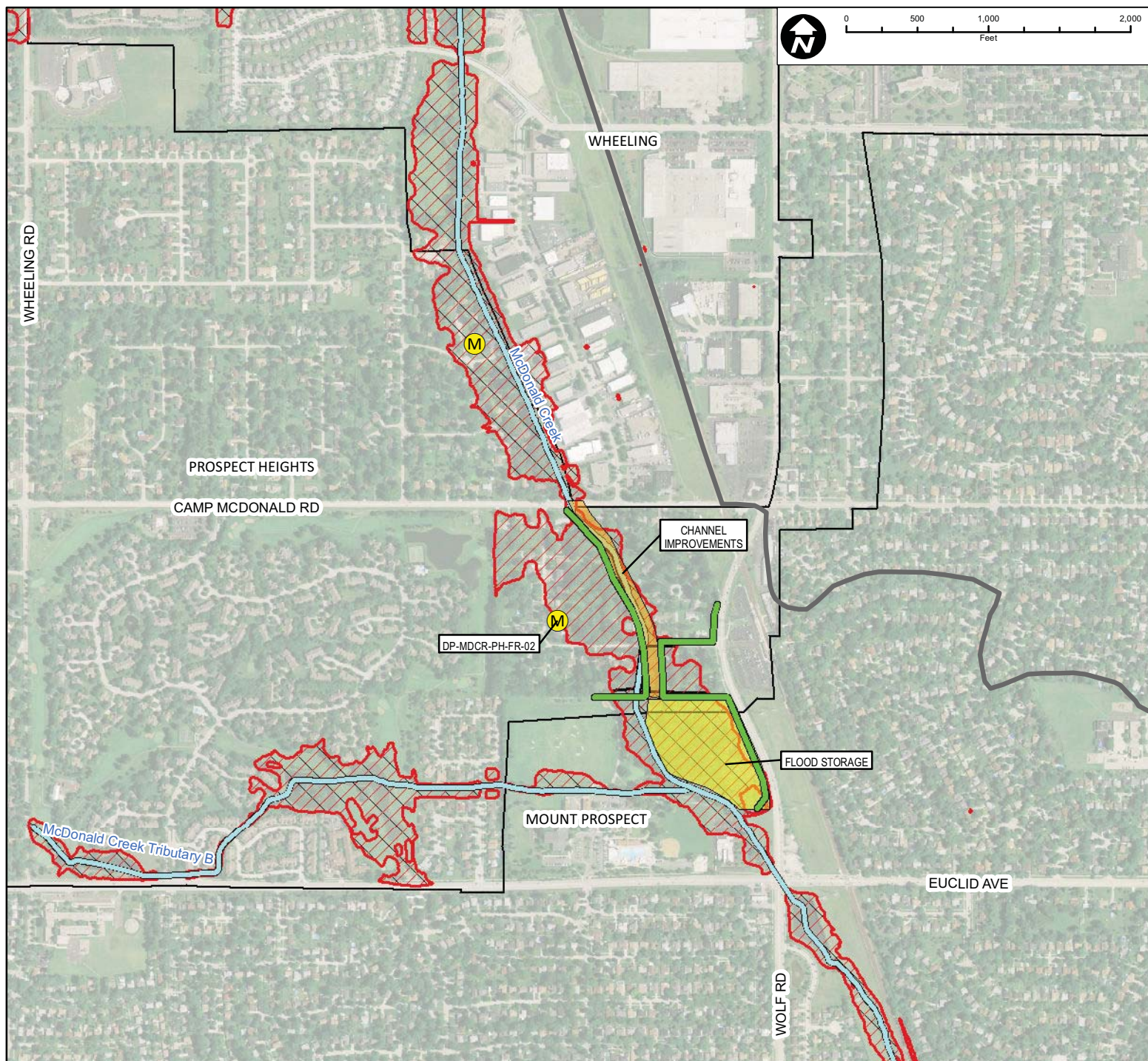
PROJ. NO. 08-0043
DATE: 04-29-2010
SHEET 1 OF 1
DRAWING NO.



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CHKD.			PLOT DATE	
FILE:				

**FIGURE
3.13.1**



Subwatershed: McDonald Creek

Alternative: MDCR-2

Alternatives Description: Construct approximately 4,100 feet of Floodwall along McDonald Creek. Channel improvements south of Camp McDonald Road. Provide 20 acre-feet of flood storage on non-developed private property in Mount Prospect.

Concept Level Cost: \$15,625,015

Benefits: \$1,841,550

B/C Ratio: 0.1

Legend

-  100-Year Storm Event Flood Inundation Without Project

- 
- Reservoir

- Levee/Floodwall

-  100-Year Storm Event Flood Inundation With Project

- Culvert/Bridge Modification

-  Channel Improvements

-  Road Improvement

- Approximate Creek

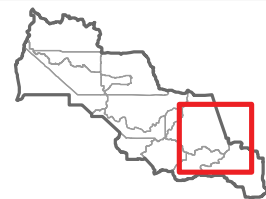
- Channel Location
Municipal Boundary

- Municipal Boundary
 Watershed Boundary

Problem Areas

- M** Modeled

- Regional



CLIENT:

**METROPOLITAN WATER RECLAMATION
DISTRICT OF GREATER CHICAGO**

TITLE:

**LOWER DES PLAINES RIVER DETAILED
WATERSHED PLAN
MCDONALD CREEK WATERSHED
RECOMMENDED ALTERNATIVE MDCR-2**

PROJ. NO. 08-0043

DATE: 03-23-2010

SHEET 1 OF 1

DRAWING NO.

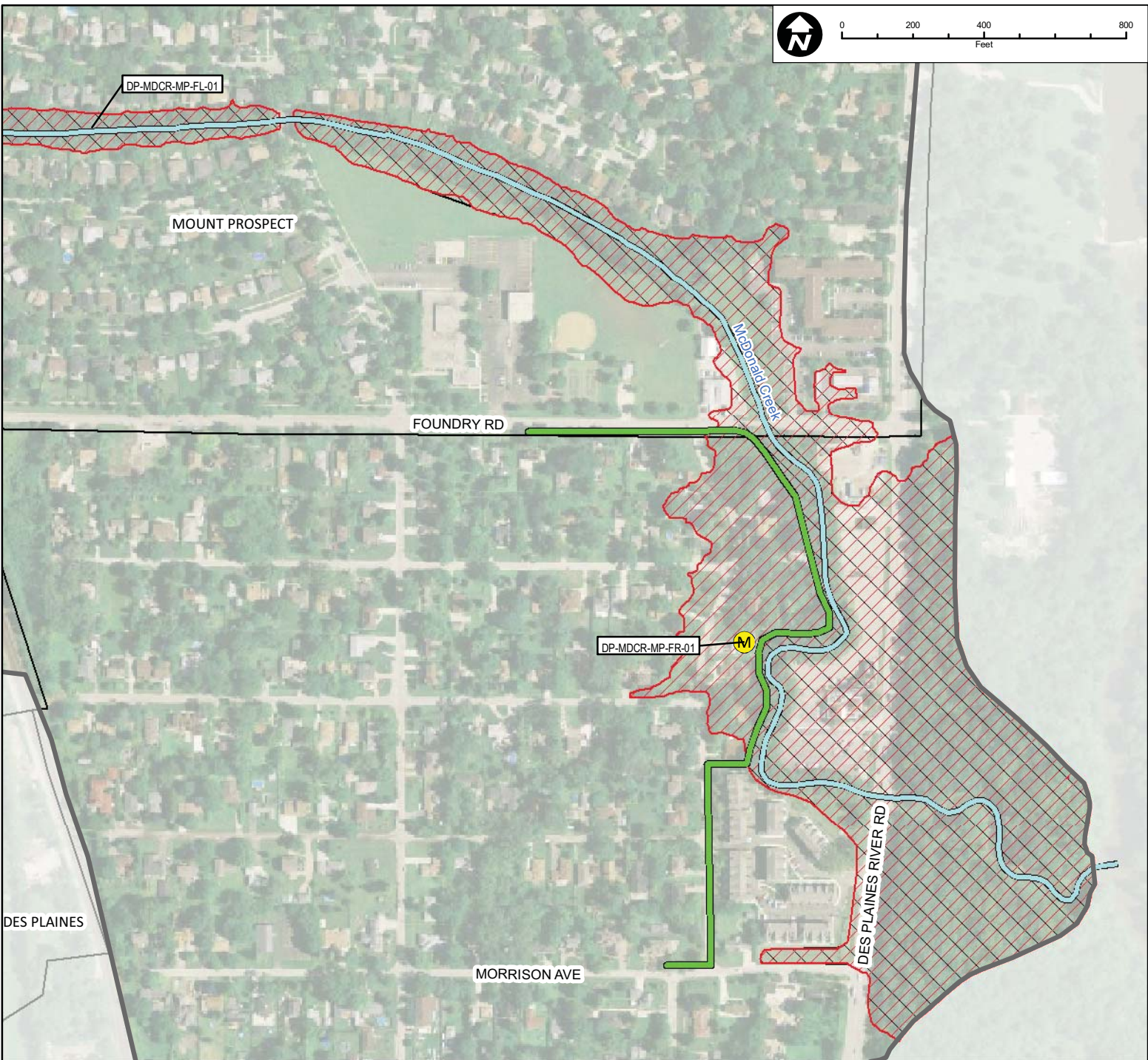


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FIGURE 3.13.8

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Subwatershed: McDonald Creek
Alternative: MDCR-3
Alternatives Description: Construct approximately 2,200 feet of Floodwall to remove 8 structures from 100-year backwater of Des Plaines River.

Concept Level Cost: \$10,368,339
Benefits: \$2,438,071
B/C Ratio: 0.2

Legend

100-Year Storm Event Flood Inundation Without Project

Reservoir

Levee/Floodwall

100-Year Storm Event Flood Inundation With Project

Culvert/Bridge Modification

Channel Improvements

Road Improvement

Approximate Creek Channel Location

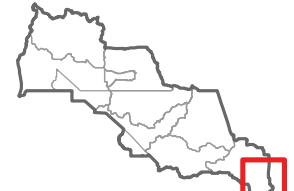
Municipal Boundary

Watershed Boundary

Problem Areas

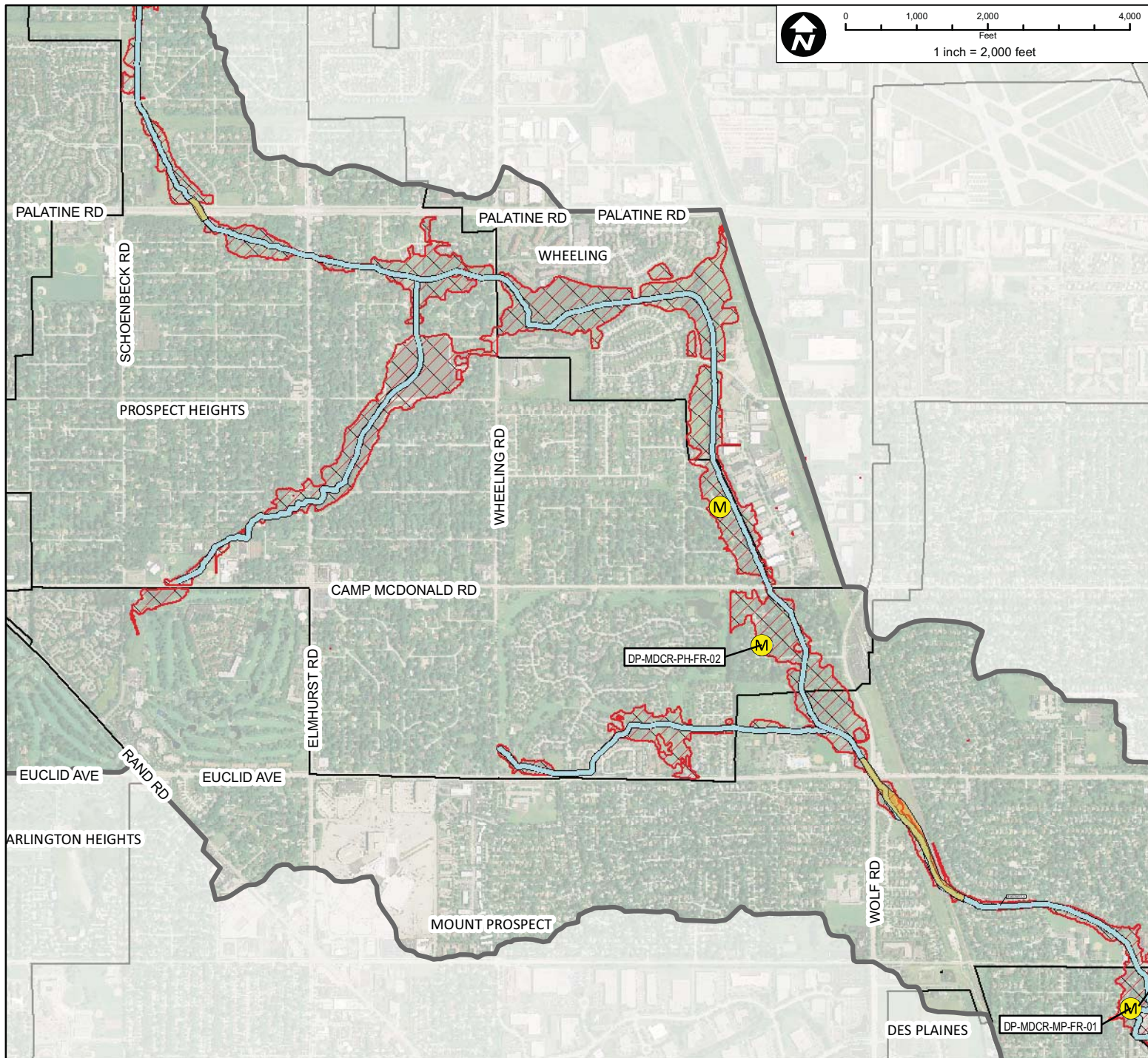
Modeled

Regional



CLIENT: METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO	TITLE: LOWER DES PLAINES RIVER DETAILED WATERSHED PLAN MCDONALD CREEK WATERSHED RECOMMENDED ALTERNATIVE MDCR-3	PROJ. NO. 08-0043																				
		DATE: 03-23-2010																				
 CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 • Rosemont, Illinois 60018 • (847) 823-0500	<table><tr><td>DSGN.</td><td>DRW</td><td>4-10</td><td>SCALE</td><td></td></tr><tr><td>DWN.</td><td></td><td></td><td>GIS USER</td><td>DRW</td></tr><tr><td>CHKD.</td><td></td><td></td><td>PLOT DATE</td><td></td></tr><tr><td>FILE:</td><td></td><td></td><td></td><td></td></tr></table>	DSGN.	DRW	4-10	SCALE		DWN.			GIS USER	DRW	CHKD.			PLOT DATE		FILE:					SHEET 1 OF 1
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FIGURE 3.13.9																						

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Subwatershed: McDonald Creek

Alternative: MDCR-4

Alternatives Description:

Sediment removal on McDonald Creek at Palatine Road culvert and between Euclid Avenue and Kensington Road.

Concept Level Cost: \$89,757

Benefits: \$880

B/C Ratio: 0.01

Legend

100-Year Storm Event Flood
Inundation Without Project

Reservoir

Levee/Floodwall

100-Year Storm Event Flood
Inundation With Project

Culvert/Bridge Modification

Channel Improvements

Road Improvement

Approximate Creek
Channel Location

Municipal Boundary

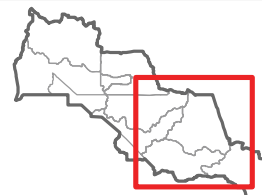
Watershed Boundary

Problem Areas

L Local

M Modeled

R Regional



CLIENT:

**METROPOLITAN WATER RECLAMATION
DISTRICT OF GREATER CHICAGO**

TITLE:

**LOWER DES PLAINES RIVER DETAILED
WATERSHED PLAN
MCDONALD CREEK WATERSHED
PROPOSED ALTERNATIVE MDCR-4**

PROJ. NO. 08-0043

DATE: 03-23-2010

SHEET 1 OF 1

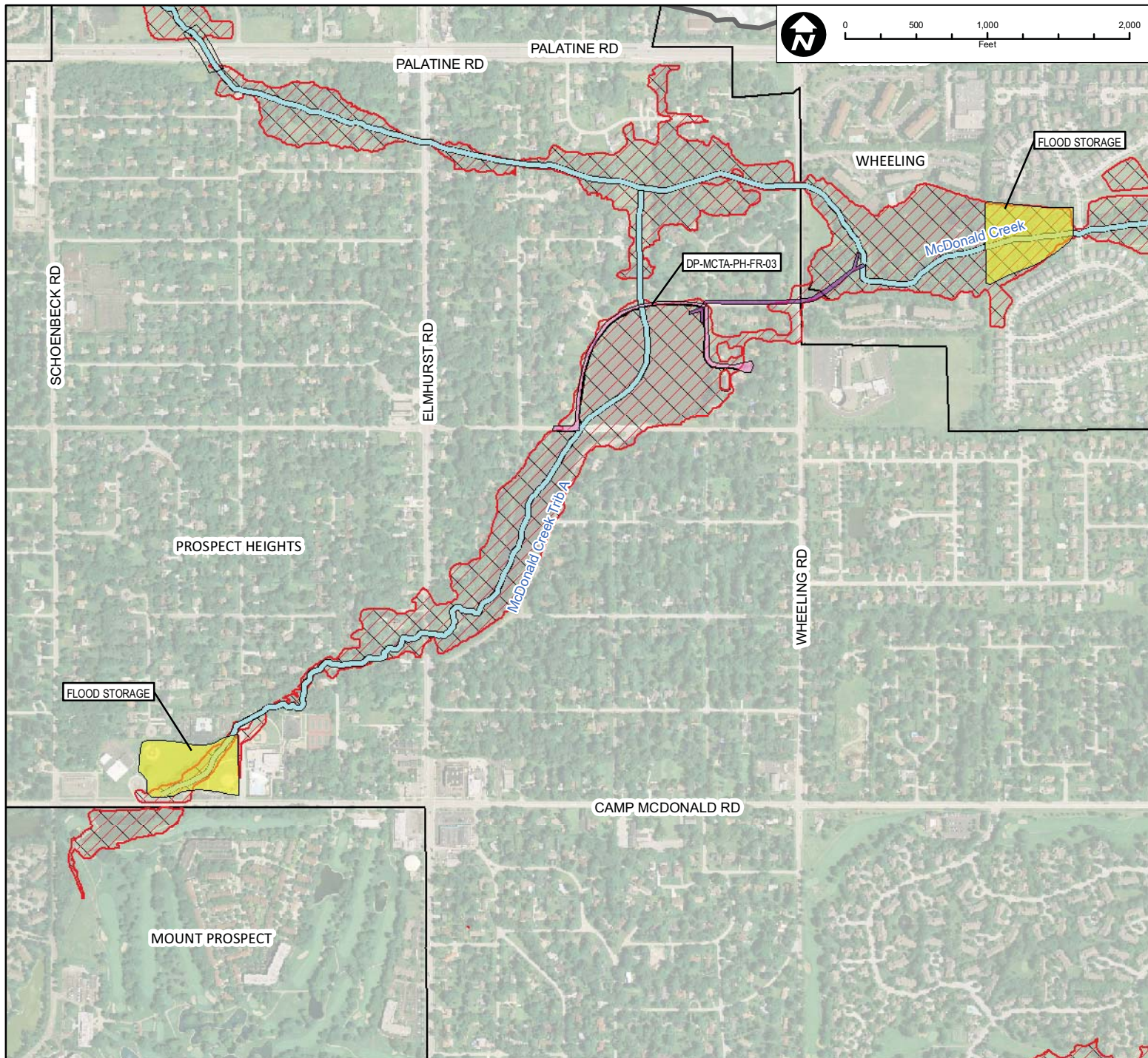
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FIGURE 3.13.10



Subwatershed: McDonald Creek

Alternative: MCTA-1

Alternatives Description: Provide 20 acre-feet of flood storage on park (Prospect Heights). Culvert Improvements at Hillcrest Drive.
Provide 20 acre-feet of storage on non-developed parcels in Wheeling.
Road Improvements at Hillcrest Drive/Owen Court.

Concept Level Cost: \$9,430,341

Benefits: \$314,091

B/C Ratio: 0.03

Legend

100-Year Storm Event Flood Inundation Without Project

Reservoir

Levee/Floodwall

100-Year Storm Event Flood Inundation With Project

Culvert/Bridge Modification

Channel Improvements

Road Improvement

Approximate Creek Channel Location

Municipal Boundary

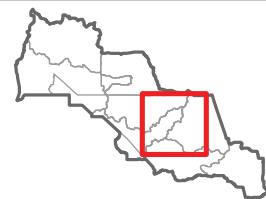
Watershed Boundary

Problem Areas

Local

Modeled

Regional



CLIENT:

**METROPOLITAN WATER RECLAMATION
DISTRICT OF GREATER CHICAGO**

TITLE:

**LOWER DES PLAINES RIVER DETAILED
WATERSHED PLAN
MCDONALD CREEK WATERSHED
RECOMMENDED ALTERNATIVE MCTA-1**

PROJ. NO. 08-0043

DATE: 03-23-2010

SHEET 1 OF 1

DRAWING NO.

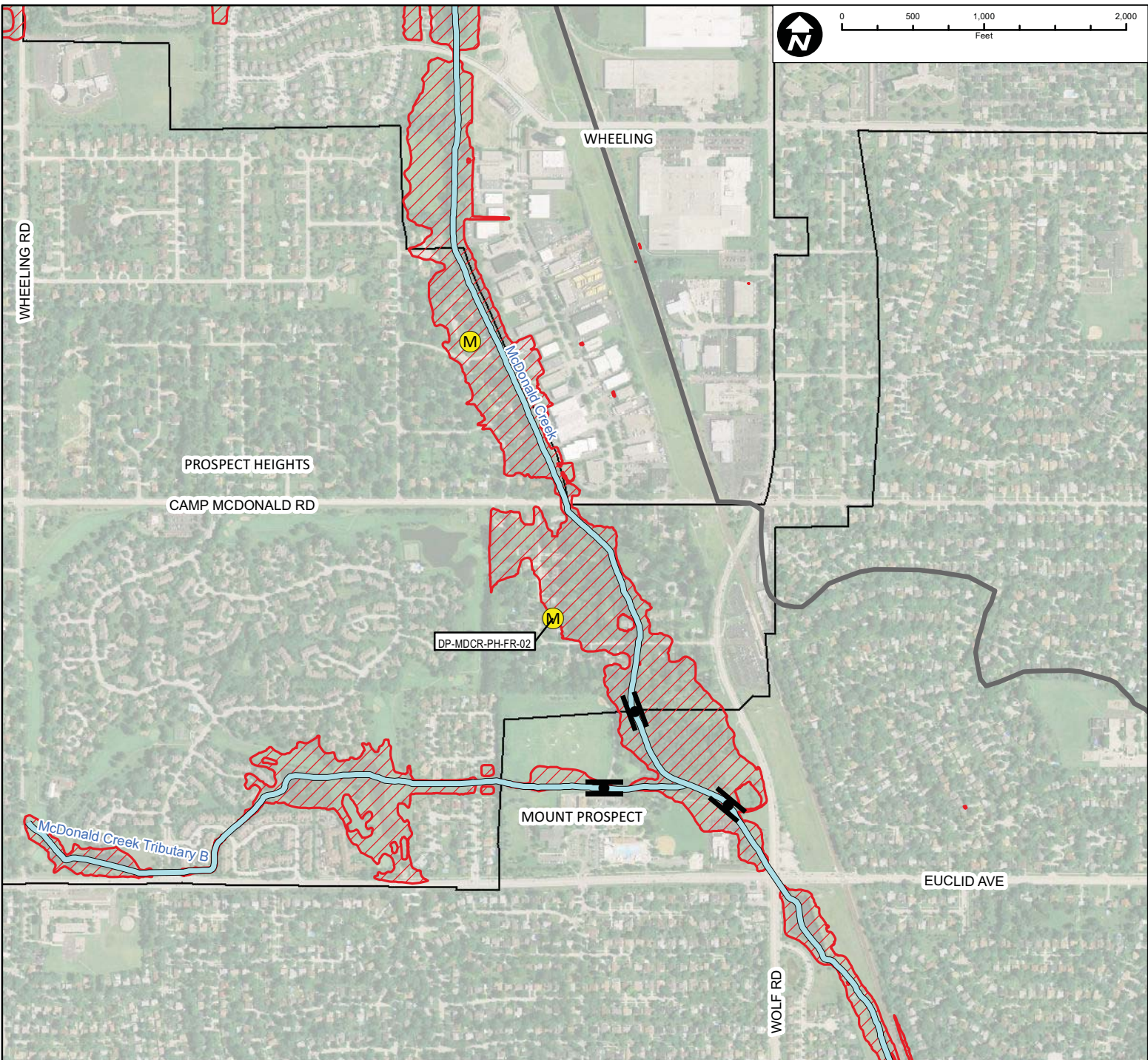


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**FIGURE
3.13.11**

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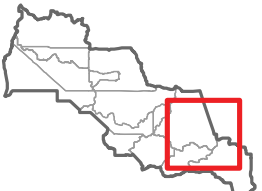


Subwatershed: McDonald Creek
Alternative: MDCR-5
Alternatives Description: Stabilize streambank erosion adjacent to pedestrian bridges on McDonald Creek and Tributary B.

Concept Level Cost: \$797,625
Benefits: \$204,000
B/C Ratio: 0.3

Legend

	100-Year Storm Event Flood Inundation Without Project		Streambank Stabilization		Approximate Creek Channel Location	Problem Areas  Modeled  Regional
	Reservoir		Channel Improvements		Municipal Boundary	
	Levee/Floodwall		Road Improvement		Watershed Boundary	
	Culvert/Bridge Modification					



CLIENT: METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO	TITLE: LOWER DES PLAINES RIVER DETAILED WATERSHED PLAN MCDONALD CREEK WATERSHED RECOMMENDED ALTERNATIVE MDCR-5	PROJ. NO. 08-0043
		DATE: 03-23-2010
		SHEET 1 OF 1
		DRAWING NO.
 CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 • Rosemont, Illinois 60018 • (847) 823-0500	DSGN. DRW 4-10 SCALE	FIGURE 3.13.12
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Appendix I: ILR40 NPDES Permit

The updated NPDES Permit ILR40 became effective on March 1, 2016.