

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
NOTICE OF INTENT
FOR GENERAL PERMIT FOR DISCHARGES FROM
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS
(MS4s)**

Input forms in Word format are available by via email.
marilyn.davenport@epa.state.il.us
or by calling the Permit Section at 217/782-0610
See address for mailing on page 4

For Office Use Only – Permit No. ILR40_____

Part I. General Information

1. MS4 Operator Name: Village of Lombard
2. MS4 Operator Mailing Address:
Street- 255 E. Wilson Avenue City- Lombard
State- Illinois Zip Code- 60148-3931
3. Operator Type: City
4. Operator Status: Local
5. Name(s) of Governmental Entity(ies) in which MS4 is located: County of DuPage (Co-Applicant and Qualifying Local Program)

6. Area of land that drains to your MS4 (in square miles): 10.5

5. Latitude/Longitude at approximate geographical center of MS4 for which you are requesting authorization to discharge:

Latitude: 41 53 0 Longitude: 88 1 0
 DEG. MIN. SEC. DEG. MIN SEC.

8. Name(s) of known receiving waters: *Attach additional sheets (Attachment 1) as necessary:*

- | | |
|---|--|
| 1. <u>DuPage River East Branch</u> | 2. <u>Westwood Creek (Tributary to Salt Creek)</u> |
| 3. <u>Sugar Creek (Tributary to Salt Creek)</u> | 4. <u>Ginger Creek (Tributary to Salt Creek)</u> |
| 5. _____ | 6. _____ |
| 7. _____ | 8. _____ |
| 9. _____ | 10. _____ |

9. Persons Responsible for Implementation/Coordination of Storm Water Management Program:

<u>Name</u>	<u>Title</u>	<u>Telephone No.</u>	<u>Area of Responsibility</u>
<u>David Gorman, PE</u>	<u>Acting Director of Public Works</u>	<u>630/620-5740</u>	<u>Overall Supervision of Public Works</u>
<u>Keith Surges</u>	<u>Acting Assistant Director of Public Works</u>	<u>630/620-5740</u>	<u>Supervises Street Maintenance and Operations</u>
<u>Nick Hatfield, PE</u>	<u>Develop. Engineer</u>	<u>630/620-5973</u>	<u>Supervises Private Property Construction</u>
<u>David Dratnol, PE</u>	<u>Village Engineer</u>	<u>630/620-5740</u>	<u>Supervises Public Property Construction</u>
<u>Angela Podesta</u>	<u>Utilities Superint.</u>	<u>630/620-5740</u>	<u>Supervises Storm Sewer O & M</u>

Information required by this form must be provided to comply with 415 ILCS 5/39 (2000). Failure to do so may prevent this form from being processed and could result in your application being denied.

Part II. Best Management Practices (include shared responsibilities) Proposed to be Implemented in the MS4 Area

(Details of BMP implementation for each checked BMP number, e.g., A.1, E.2, is required in Part IV of this NOI.)

NOTE: DuPage County is Co-Permittee with the Village of Lombard and is a Qualifying Local Program for the BMP Section

A. Public Education and Outreach

- A.1 Distributed Paper Material
- A.2 Speaking Engagement
- A.3 Public Service Announcement
- A.4 Community Event
- A.5 Classroom Education Material
- A.6 Other Public Education

B. Public Participation/Involvement

- B.1 Public Panel
- B.2 Educational Volunteer
- B.3 Stakeholder Meeting
- B.4 Public Hearing
- B.5 Volunteer Monitoring
- B.6 Program Coordination
- B.7 Other Public Involvement

C. Illicit Discharge Detection and Elimination

- C.1 Storm Sewer Map Preparation
- C.2 Regulatory Control Program
- C.3 Detection/Elimination Prioritization Plan
- C.4 Illicit Discharge Tracing Procedures
- C.5 Illicit Source Removal Procedures
- C.6 Program Evaluation and Assessment
- C.7 Visual Dry Weather Screening
- C.8 Pollutant Field Testing
- C.9 Public Notification
- C.10 Other Illicit Discharge Controls

D. Construction Site Runoff Control

- D.1 Regulatory Control Program
- D.2 Erosion and Sediment Control BMPs
- D.3 Other Waste Control Program
- D.4 Site Plan Review Procedures
- D.5 Public Information Handling Procedures
- D.6 Site Inspection/Enforcement Procedures
- D.7 Other Construction Site Runoff Controls

E. Post-Construction Runoff Control

- E.1 Community Control Strategy
- E.2 Regulatory Control Program
- E.3 Long Term O&M Procedures
- E.4 Pre-Const Review of BMP Designs
- E.5 Site Inspections During Construction
- E.6 Post-Construction Inspections
- E.7 Other Post-Const Runoff Controls

F. Pollution Prevention/Good Housekeeping

- F.1 Employee Training Program
- F.2 Inspection and Maintenance Program
- F.3 Muni Operations Storm Water Control
- F.4 Municipal Operations Waste Disposal
- F.5 Flood Management/Assess Guidelines
- F.6 Other Municipal Operations Controls

Part III. Qualifying Local Programs

Attach additional sheet as necessary:

(Describe any qualifying local programs that you will implement in lieu of new permitting requirements.)

A. Public Education and Outreach:

The Village of Lombard utilizes the DuPage County Water Quality Education Program. The County of DuPage distributes educational materials (i.e. brochures) to local governing agencies and prepares public service announcements and supports other ongoing water quality initiatives that speak to the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in storm water. Further, in 2009, the County will create a Public Information Officer position that will be responsible for highlighting the importance of water quality at public events such as Council and Board Meetings, fairs, homeowners associations, and other civic events. The Village of Lombard will request to have this person attend the "Lilac Time" events, which is an annual civic gathering, during the next reporting cycle.

B. Public Participation/Involvement:

Through the development of the DuPage County Stormwater Management Plan (SMP), adopted in 1989, and each of the subsequent appendices, the public has been involved and remains involved in the development and implementation of the plan through public notices of revisions or new appendices developed pursuant to the Plan as well as public hearings for adoption. DuPage County also formed a Water Quality Stakeholder Committee, comprised of volunteers from the general public, non-profit agencies, consultants, developers, municipal engineers, state agencies and County staff, to spearhead the development of water quality policy for the County of DuPage to the SMP, that has worked and will continue to work in conjunction with the DuPage County Municipal Engineers group, also a regularly scheduled public meeting, throughout the process of implementation. In addition to the publicly open meetings and hearings there is an adult volunteer monitoring initiative being supported by the DuPage County Water Quality Education program through the Illinois Department of Natural Resources, Chicago Wilderness, The Conservation Foundation and the Morton Arboretum, that fulfills the requirements for the Public Participation/Involvement minimum control measure of the NPDES Phase II MS4 permit. The Village also has a "Lilac Pride" day in which the community gathers in certain locations and cleans up trash. DuPage County also has a stream clean up program that is attended by the community. The Village of Lombard's Environmental Committee is comprised of local residents who work to forward water quality.

C. Illicit Discharge Detection and Elimination:

The Village of Lombard is working as a full participant with DuPage County and with the other cooperating permit holders within DuPage County on the development of a Countywide IDDE program. To date, this group has worked on a draft of the ordinance language to support this program and began assembling an MS4 outfall map of the County. The Village of Lombard has provided the County with the locations of its MS4 outfalls, which will be incorporated into the countywide map. This program will be in place in 2008 and will provide for dry weather monitoring of the mapped MS4 outfalls, tracing and sampling procedures. The County will run the monitoring and sampling program, and the Village of Lombard will assist in any way needed, which includes, if necessary, any enforcement action that may be required to curtail an illicit discharge. Included with the County's NOI is a draft of this ordinance.

D. Construction Site Runoff Control:

Within the DuPage County Stormwater Management Plan noted above is the DuPage County Countywide Stormwater and Flood Plain Ordinance (Appendix F) that is the fundamental regulatory control program that enforces a policy to reduce pollutants in storm water runoff from construction activities as a result of any land disturbances within the County of DuPage. Included within the Ordinance are requirements for: sediment and erosion control, including recommendations for appropriate control practices; site plan reviews; public information handling procedures; and site inspection/enforcement procedures that fulfill the requirements for Construction Site Runoff Control minimum control measure of the NPDES Phase II MS4 permit. Appendix E will be implemented, which provides guidance for design and implementation on the Best Management Practices for stormwater quality. The Village of Lombard also has a part-time code enforcement position that is responsible for, among other things, inspecting residential construction sites to ensure proper sediment and erosion control.

E. Post-Construction Runoff Control:

Within the DuPage County Stormwater Management Plan noted above is Appendix F that is the fundamental regulatory control program that enforces a policy to reduce pollutants in storm water runoff from construction activities as a result of any land disturbances within the County of DuPage. Included within the Ordinance are requirements for: long term operation and maintenance procedures; pre-construction review of Best Management Practices; site inspections during construction; and post construction inspections that fulfill the requirements for Post-Construction Runoff Control minimum control measure of the NPDES Phase II MS4 permit. Post-construction runoff is restricted by release rate for all new commercial development within the Village of Lombard.

F. Pollution Prevention/Good Housekeeping:

The Village of Lombard's Public Works Department has created an Employee Training Program for Stormwater Management. Each employee will go through the program to reinforce the importance of reducing stormwater pollution through street sweeping, catch basin cleaning, pond inspections, etc. The Village of Lombard also has an active detention pond inspection program that, among other things, looks to ensure that the restrictors are free of debris and that the pond is in working condition. The Village has a catch basin cleaning program that vacuums each of the Village's catch basins every 3 years. The Village also maintains a street sweeping operation that operates ten to eleven months per year. The Village's street sweeping program sweeps all Village streets at least once every month. The Village also contracts with a landscape firm to clean up debris in the landscape areas in the downtown business district. Lastly, the Village has a voluntary storm sewer stenciling program that has been used to date by church groups, homeowner's associations and individual families.

Part IV. Measurable Goals (include shared responsibilities) Proposed to be Implemented by the MS4

Attach additional sheets as necessary (Please See Attachment 3)

(BMP No. should match that checked in Part II of this NOI. The applicant may repeat the same BMP No. where more than one BMP of similar type is to be implemented. Where necessary, attach additional sheets to provide more detail on each specific BMP.)

Part V. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Authorized Representative Name and Title

Signature

Date

**David P. Gorman, Acting Director of
Public Works**

Mail completed form to:

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
ATTN: PERMIT SECTION
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276**

Copy and complete this page if additional pages are necessary:

**Attachment 1
Receiving Streams (Continued)**

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Copy and complete this page if additional pages are necessary:

Attachment 2

Part III (Continued) Qualifying Local Programs

(Describe any qualifying local programs that you will implement in lieu of new permitting requirements.)

1a. Public Education and Outreach:

2a. Public Participation/Involvement:

3a. Illicit Discharge Detection and Elimination:

4a. Construction Site Runoff Control:

5a. Post-Construction Runoff Control:

6a. Pollution Prevention/Good Housekeeping:

Attachment 3

Part IV. (Continued) Measurable Goals (include shared responsibilities) Proposed to be Implemented by the MS4

Public Education and Outreach

BMP No. A.1 Distribution of Paper Material

Brief Description of BMP:

Paper materials assist in providing information for programs, procedures, and research to residents and non-residents of DuPage County. DuPage County has partnered with both the Conservation Foundation of DuPage County and S.C.A.R.C.E. (School and Community Assistance for Recycling and Composting Education) to develop and distribute various water quality related brochures and fact sheets. These paper materials provide information about various countywide programs, including stream bank stabilization; the promotion of best management practices; and provide general guidance on how to improve water quality throughout the County.

Measurable Goal(s), including frequencies:

(Past)

Distributed informational material on:

- Native Vegetation
- Nurseries selling Native Vegetation
- Conservation Options for Private Landowners
- Streambank Stabilization in DuPage County
- DuPage County Wetlands and Streams
- Maintenance and Management of Naturalized Areas- A Homeowners Guide
- Prevention of Stormwater Runoff Pollution
- Clean Water: We Can't Live Without It
- Trail Maps for all of DuPage County
- Conservation Foundation brochures about rain gardens, invasive, etc
- Wetland and floodplain maps for property owners?

Organizational newsletters produced:

- County sponsored stormwater newsletter, Currents
- S.C.A.R.C.E produced and distributes environmental newsletter, Ripples.
- S.C.A.R.C.E distributed issues of the Green Bulletin electronically to thousands of county citizens. The Green Bulletin announces watershed exhibits and community events. The Green Bulletin is similar to the RIPPLES newsletter but is distributed solely in an electronic format.

(Future)

- Continue to distribute brochures previously developed by the County
- Create and distribute a list of companies providing service for native vegetation installation, monitoring and management
- Provide informational training seminars to consultants, engineers and municipal representatives
- Update and re-implement Adopt-a-Stream brochure
- Distribute additional recreational brochures developed by the Forest Preserve District of DuPage County (FPDDC) that inform the public about using the natural resources in DuPage County for activities like hiking, fishing, and water activities
- Update Stream Maintenance Program brochure
- Create additional Water Quality brochures (e.g. IDDE)

- Create a DuPage County fact sheet that emphasizes stormwater management information.
- Continue production of quarterly stormwater newsletter, *Currents*.
- Distribute brochures on local water quality and conservation initiatives developed by others.

Milestones:

Year 1: Develop a series of water quality brochures (IDDE), handouts, and informational material. Provide information and resources, including brochures, an informational DVD, and newsletters for planting and maintaining certified properties.

Years 2-5: Develop water quality information to fit the needs of the Stormwater Management Program. Update stream maintenance program brochure. Create County fact sheet and produce quarterly issues of *Currents*.

Years 3-5: Continue to update and review water quality information as necessary.

BMP No. A.2 Speaking Engagement

Brief Description of BMP:

Speaking engagements provide DuPage County an additional outlet to inform the public about stormwater issues, procedures, and information. Staffs from the DuPage County Stormwater Management Division as well as members of the Conservation Foundation and S.C.A.R.C.E. have spoken at a number of engagements meant to promote water quality and recycling.

Measurable Goal(s), including frequencies;

(Past)

- The Stormwater Management Director spoke at the DuPage Environmental Summit, which is held each year to inform the public about conservation practices within DuPage County.
- S.C.A.R.C.E spoke to several community groups on topics such as watershed models, and the 3R's of Reduce, Reuse, Recycle.
- The Stormwater Management Director gave a presentation on DuPage County's Stormwater Management and Water Quality Improvement Programs at a World Water Monitoring Day event that was sponsored by the DuPage River Salt Creek Workgroup, The Conservation Foundation, and the US EPA Region 5.
- Public Works managerial staff gave a presentation about the DuPage County Drainage Program at the Illinois Association for Floodplain and Stormwater Management (IAFSM) Annual Conference in Tinley Park.
- DuPage County staff made a presentation at the Soil Erosion and Sediment Control Workshop Series sponsored by the Kane DuPage Soil and Water Conservation District.
- DuPage County staff gave a presentation at a permitting workshop for developments in northeastern Illinois that was sponsored by The Urban Planning and Development Group of the American Society of Civil Engineers.
- DuPage County staff gave a presentation on the "Virtues of Native Landscaping" for the Village of Itasca staff and residents.
- DuPage County staff gave a presentation about post-construction BMPs at the IWEA/CSWEA Government Affairs in Water Pollution Control Conference.

(Future)

- Continue to participate and present relevant issues at the Environmental Summit.
- Continue to fund support for groups like S.C.A.R.C.E, The Conservation Foundation, and other organizations that sponsor conservation friendly activities.
- Continue to present at permitting workshops and other speaking engagements to educate the public.
- Continue to provide internal and external training opportunities.

- Continue to be a partner in other conservation activities.

Milestones:

Year 1: Develop material for public information such as PowerPoint presentations. Contract with The Conservation Foundation to provide community education (in addition to Conservation @ Home) on water quality topics and programs such as “When it Rains, It Drains” and “Don’t Muddy the Waters.”

Year 2: Hire a Public Information Manager (PIM) who will seek speaking opportunities with local interest groups (such as local Rotary Clubs, Lyons Club, Homeowner’s Associations, etc.)

Years 3-5: Continue support of County funded groups. Encourage staff participation in speaking engagement opportunities.

BMP No. A.3 Public Service Announcement

Brief Description of BMP:

Public service announcements are utilized to reach large groups of people and inform them of issues regarding stormwater management and water quality.

Measurable Goal(s), including frequencies:

(Past)

During the past five years DuPage County has not issued public service announcements in the traditional sense.

(Future)

Create a 30 second PSA that will inform residents about issues of disposing or dumping of waste into storm sewers.

Milestones:

Year 1: DuPage County working through The Conservation Foundation we will promote and expand the Storm Drain Stenciling program. DuPage County will continue to encourage and increase local coordination in communities. Continue outreach to scout organizations and ecology clubs, homeowner associations. Maintain records and generate reports, purchase and distribute supplies. Intern/assistant to coordinate program with staff support.

Year 2: Create and air a 30 second public service announcement.

Years 3-5: Continue to update and air County public service announcements.

BMP No. A.4 Community Event

Brief Description of BMP:

Community events allow the Stormwater Management Division personnel to provide information to the general public about a variety of stormwater management and water quality issues in a relaxed setting. Through a variety of community events DuPage County is able to reach a broad group of people comprised of residents, non-residents, and business leaders. Participation in these events is helpful to supplementing the flow of information from the County to the public.

Measurable Goal(s), including frequencies:

(Past)

- During their 3Rs educational program, S.C.A.R.C.E discussed reducing the use of water in a practical manner to extend the supply of fresh water and to reduce pollutants from energy supplies that are used to create the flow of water into homes.

- The DuPage River Sweep, a yearly event, enlists the help of volunteers to remove debris from the stream channel and along the banks makes our streams more attractive, improves water quality and the stream ecosystem, helps to improve water flow during heavy rains, removes potential hazards for fish and wildlife, and provides a constructive activity for youth and adult groups.
- DuPage County hosted and helped fund S.C.A.R.C.E's High School Green Building Design Challenge event in April 2007. Local high school students displayed their models, power point presentations, and poster boards on green building design and best management practices for stormwater management. The green building design models were showcased outside of the County Board office, which gave DuPage County Board members and staff as well as the general public the opportunity to discuss the displays with students.
- S.C.A.R.C.E discussed the benefits of utilizing native plants.
- S.C.A.R.C.E educated the general public about the dangers and the proper household hazardous wastes including fertilizer, pesticides, disposal for medicine, and oil paint.
- S.C.A.R.C.E made presentations to 82 youth leadership/scout group presentations on: Watersheds/Watershed Models & the 3Rs of Reduce, Reuse, Recycle.
- S.C.A.R.C.E made presentations to 99 committee/club/agency meeting presentations: Watersheds/Watershed Models & the 3Rs of Reduce, Reuse, Recycle.
- Participation in the DuPage Environmental summit
- Additional S.C.A.R.C.E Events include;
 - Student competition for design of Green Building
 - Green Building Design Workshop
 - Waste Audit/S.C.A.R.C.E information
 - Household Hazardous Waste/Energy
 - Train the Trainer
 - Conservation Practices
 - Earth Summit

(Future)

- Continue support of an informational booth at The DuPage County Fair
- Continue support of County supported events hosted by organizations like S.C.A.R.C.E, The Conservation Foundation, and groups that present a positive environmental message.

Milestones:

Year 1: The Conservation Foundation will create a Community Watershed Outreach Program that will develop and distribute a Watershed Program Outreach brochure/flyer, assemble and update a database. An Intern/assistant will be hired to carry out tasks. Continue Participation in the DuPage County Fair and at other County funded organization events.

Year 2: Participation by the Public Information Manager at local community events.

Years 3-5: Continue community events, review and update materials and events as needed.

BMP No. A.5 Classroom Education Material

Brief Description of BMP:

Classroom education materials assist in the teaching of topics related to stormwater management, the environment, and water quality. "Hands on" demonstrations, and physical models help facilitate understanding of a topic beyond what is written in a textbook.

Measurable Goal(s), including frequencies:

(Past)

- 27 teacher In-Service/Modeling on:
 - Watershed Model; Energy

- Conservation; Waste Audit
- Ecology Flag; Recycled Paper
- Earth Flag/Zero Waste Grant
- Zero Waste/Tap & Stack
- 19 teacher workshops on:
 - Groundwater
 - Watersheds
 - Energy and Conservation
 - Environmental Natural Resources
- 5 Education Junior High and High School District 204 Workshops on:
 - Watershed Model, Natural Resources
 - Life Cycle Analysis

(Future)

- Continue County support of teacher education programs utilizing a group like S.C.A.R.C.E.
- Continue to produce education materials for public and private uses

Milestones:

Year 1-5: Continue the development of education materials, and sponsorship of environmental clubs. Review and update classroom education materials as necessary.

BMP No. A.6 Other Public Education

Brief Description of BMP:

Other public education initiatives allow further opportunities to promote stormwater management and water quality issues.

Measurable Goal(s), including frequencies:

(Past)

- S.C.A.R.C.E conducted a waste audit describing the benefits related to water preservation and purity.
- S.C.A.R.C.E conducted Energy/Energy Conservation workshop discussing water usage and water pollution associated with water production of nuclear power and other energy sources. Most energy sources that are utilized today incorporate water usage in the production and or causes water pollution as an unintended consequence.
- The Storm Drain Stenciling Program (SDS) has evolved over the past years and we are now seeing greater involvement on the part of municipalities. A storm drain stenciling project consists of stenciling a message next to the street drain reminding people "**Dump No Waste- Drains to River**" with the image of a fish. Stencils are also available for lake, stream, bay, groundwater, ocean or simply "protect your water" with the image of a glass and faucet. Downers Grove, Villa Park and Naperville continue to distribute supplies to local groups such as the Eagle Boy Scouts. Troop 9 of the Eagle Boy Scouts stenciled 93 drains, Troop 95 stenciled 706 drains and Boy Scouts 888- Eagle stenciled 316 drains promoted by the Village of Downers Grove. The Village of Naperville continues to promote stenciling in 2006 and sponsored the Boy Scouts Troop 888, Elmwood School, Ellsworth School and the Illinois Small mouth Alliance. The Villa Park Environmental Concerns Commission began a regular program of stenciling that continued in the spring of 2006. The Eagle Scout Project volunteers stenciled approximately 514 drains in the spring sponsored by Villa Park.
- Mighty Acorns is a stewardship-based environmental education program, which reaches 450 4th to 6th graders in three schools in West Chicago. The program focuses on key concepts of biodiversity and environmental health. Students help restore McKee Meadow in Blackwell Forest Preserve, Pioneer Park and Prestonfield Park in West Chicago. All of the sites include a river, pond or wetland in them, and our program incorporates watershed concepts. We also hope to add a 5th grade level at Wegner School in

West Chicago. As a Mighty Acorn Partner, The Conservation Foundation staff also sits on the Board and task forces of the larger Mighty Acorns Partnership, chairs of the Communications Task Force, and mentors new partners in DuPage County as the need arises. The Conservation Foundation full and part-time staff train teachers and volunteers, and lead classroom and field sessions. The Conservation Foundation provides and maintains equipment for restoration activities by the students and educational/training materials for teachers and volunteers. Volunteers continue to assist with field sessions.

- The Envirothon is a national competition in which high school students' study about ecology and land management in 5 areas; aquatics, forestry, wildlife, soils, and a current topic that changes each year. The winner of the regional competition advances to the state level, and the state winner to the national level where scholarships are awarded to the winning team members. The Conservation Foundation recruits DuPage County teams, helps plan the regional event, writes the aquatics test, and conducts the teacher training workshops on the day of the competition.

- **Watershed Program Intern/Part-time Assistant**

Many of our watershed programs are well established and can be carried out by an intern or part-time assistant, leaving staff free to expand and refine programs within the county. The intern/assistant can carry out administrative tasks, logistics, database management, and program coordination required for the watershed education programs and workshops (municipal/technical workshops, Sweep, Stenciling, CARE, Conservation @ Home, watershed website, and Mighty Acorns, etc.); compile information for reports, and develop and write promotional materials and program newsletters.

- Member of The DuPage River Coalition. The Coalition is a group of government agencies and citizens who work:
 - To improve the community's understanding of what a watershed is, why a healthy watershed is important, and how their actions affect the watershed
 - To improve the water quality through the reduction and elimination of non-point and point sources of pollution.
 - To integrate watershed protection issues into land use planning and development practices
 - To protect, restore and link natural areas throughout the watershed
 - To promote the recreational opportunities of the watershed.
 - The Coalition's mission is to increase awareness of the DuPage River watershed in those who live in it and to improve the river's water quality through the active involvement of the community.

(Future)

- Creation of a Public Information Manager position, which will handle all public relations matters for Stormwater Management Division.
- Continued support of Conservation @ Home, which was developed by The Conservation Foundation. This program is an extension of our existing homeowner education and watershed protection efforts, and encourages and recognizes property owners that protect and/or create yards that are environmentally friendly and conserve water. This includes planting native vegetation, such as prairie and woodland wildflowers, trees and shrubs, create butterfly and rain gardens, and remove exotic species of plants.
- Implement a wetland classroom program with S.C.A.R.C.E.

Milestones:

Year 1: Continue to support to programs like those listed above and promote other educational opportunities.

Year 2: Create a Public Information Manager position in 2009.

Years 3-5: Continue to review and update public education information.

BMP No. B.1 Public Panel

Brief Description of BMP:

The knowledge gained from public opinion can assist in creating programs that address concerns and situations effectively.

Measurable Goal(s), including frequencies:

(Past)

The DuPage County Environmental Commission, a citizen advisory board, has created a long-range, well-reasoned environmental policy for all of DuPage County. The DuPage County Board adopted the Environmental Policy on April 26, 1993, Resolution CB-003-93. The commission provides guidelines for improving air, streams, and land.

(Future)

- Continue support of Environmental Summit.
- Continue support of Environmental Commission.

Milestones:

Year 1: Continue support of groups like the Environmental Commission, that provide opportunities for increasing public knowledge regarding environmental issues.

Years 2-5: Review and update public panel information.

BMP No. B.3 Stakeholder Meeting

Brief Description of BMP:

Stakeholder meetings provide the opportunity for individuals and groups of people with a vested interest in stormwater management and water quality to exchange ideas and goals.

Measurable Goal(s), including frequencies:

(Past)

- The Municipal Engineers Advisory Group meets on a monthly basis to discuss issues related to the DuPage County Stormwater and Floodplain Ordinance, Best Management Practices, water quality, and overall stormwater program issues.
- The DuPage County Water Quality Stakeholder Committee meets on a regular basis to discuss issues related NPDES II and TMDL's. The committee has been evaluating various methods on how to best meet the six minimum control measures of the NPDES II through qualifying programs.

(Future)

- Continued support of the Municipal Engineers Advisory Group and the DuPage County Water Quality Stakeholder Committee.
- Continued implementation of BMPs

Milestones:

Years 1-5: Continue support of the Municipal Engineers and Water Quality Stakeholders Groups

BMP No. B.4 Public Hearing

Brief Description of BMP:

Public hearings allow for community members, both public and private, to gain insight into different stormwater programs and initiatives. Public information meetings allow for an open forum giving citizens first hand knowledge of various programs, policies, and projects while giving citizens the opportunity to discuss their viewpoints and provide input concerning appropriate stormwater management, water quality policies, and best management practices.

Measurable Goal(s), including frequencies:

As updates to the appendices of the DuPage County Stormwater Management Plan are developed there will continue to be public hearings in which the public will have an opportunity to voice their comments.

(Past)

During the past five years public hearings have been held for all proposed ordinance changes, watershed plans, and variances to certain provisions in the DuPage County Stormwater and Floodplain Ordinance.

(Future)

Hold Public hearings as necessary for any ordinance change, watershed plan, or variance to a given provision in the ordinance.

Milestones:

Years 1-5: Continue to implement updates and review all amendments to appendices of the Stormwater Management Plan. Hold Public hearings as necessary for any ordinance change, watershed plan, or variance.

BMP No. B.5 Volunteer Monitoring

Brief Description of BMP:

Volunteer monitoring provides an opportunity for an interested person to become involved in the collection of water quality data throughout DuPage County. The collected data can be used to identify impairments to a water body and help develop proposed water quality improvement projects.

Measurable Goal(s), including frequencies:

(Past)

- C.A.R.E. Volunteer Monitoring Program
- The CARE monitoring program awaits further direction as RiverWatch is again training and coordinating citizen scientist monitors, and the DuPage River Watershed Plan is being revised. In the meantime, The Conservation Foundation staff trained RiverWatch/CARE volunteers as citizen scientist monitors. The Conservation Foundation distributed monitoring kits and supported volunteer monitoring DuPage River sites.
- DuPage River Salt Creek Workgroup
- Workgroup developed opportunities for volunteer monitors to conduct sub-watershed assignments, locate and evaluate problems, investigate restoration opportunities and perform supplemental monitoring for the DuPage River and Salt Creek.

(Future)

- The C.A.R.E group will select appropriate sites in all impaired watersheds throughout DuPage County and conduct training through The Conservation Foundation and Chicago Wilderness to make data available through the IDNR INRIN database. This database will hopefully be used to draw correlations and trends on the improvements to the impaired watersheds in DuPage.

Milestones:

Years 1-5: Continue support for volunteer monitoring opportunities.

BMP No. B.6 Program Coordination**Brief Description of BMP:**

Program Coordination is imperative to ensure that programs sponsored by DuPage County are reaching their desired objectives.

Measurable Goal(s), including frequencies:

Creation of a Public Information Manager position (PIM). This position will be responsible for program coordination as well as lead contact for public education and outreach opportunities.

Milestones:

Year 1: Review stormwater programs and determine where updates are necessary.

Year 2: Creation of Public Information Manager position.

Years 3-5: review and update programs as necessary.

BMP No. B.7 Other Public Involvement**Brief Description of BMP:**

The Streambank Stabilization Program was formed in 1993 as an offshoot of DuPage County's Stream Maintenance Program. The Stream Maintenance Program financially supplemented County approved streambank stabilization projects, with potentially 100% of costs for Design Solution Reports and up to 20% of construction costs being recouped. This program has had great success using bioengineering techniques to restore severely eroded streambanks back to healthy, vegetated side slopes.

Measurable Goal(s), including frequencies:

Within the last few years, DuPage County has received several requests to participate in projects where the goal was to improve water quality, but streambank stabilization was not necessarily the desired solution. Such projects include wetland creation, storm sewer day lighting, and in-stream animal habitat enhancement. In order to encourage the implementation of similar projects in the future, the County found it necessary to expand the only program that addressed water quality concerns, the Streambank Stabilization Program, into the Water Quality Improvement Program.

Additional Public Involvement:

- DuPage River Summit provides information on issues pertaining to waterways in DuPage County, sponsored by The Conservation Foundation.
- Wetland plant identification course, taught by Dr. Robert Mohlenbrock of Biotic Consultants and sponsored by DuPage County. Course provides skills to identify and distinguish characteristics of several species of wetland plants.
- IWEER (Institute of Wetland & Environmental Education & Research) - Wetland Delineation Training Course hosted by DuPage County. Course provides consultants and other professionals with the skills necessary to complete wetland delineations utilizing the federal guidelines.
- Winter Plant identification course in 2007 and 2008, taught by Paul Bollinger of Bollinger, Lach, and Associates and sponsored by DuPage County. Course provides skills to identify and distinguish characteristics of several species of local plants during the winter months.
- Participation in an all-day Environmental Fair hosted by a local Girl Scout Troop.

- Installation of signage surrounding County owned properties. These signs serve as information in the field to inform people regarding the negative impacts of illegal dumping and mowing of County owned property.
- Participation in Household Hazardous Waste Program. Mobile events provide materials that inform residents regarding proper disposal of these materials. Household hazardous waste drop off events enable residents to safely dispose of common household waste such as oil, paint, and batteries in an environmentally safe manner.
- DuPage County Adopt-A-Stream Program is a volunteer program available to citizens and volunteer groups to keep our streams clean by removing debris and trash in and along our waterways, planting vegetation, and/ or monitoring the quality of water. Volunteer groups select a section of the stream and go out twice a year to remove debris from the stream and along the over banks.
- The DuPage River Coalition aims to increase awareness of the DuPage River Watershed in those who live in it and improve the river water's quality through the active involvement of the community. The DuPage River Coalition goals are
 - Improve the community's understanding of what a watershed is, why a healthy watershed is important, and how their actions affect the watershed.
 - Improve the water quality through the reduction and elimination of non-point and point sources of pollution.
 - Integrate watershed protection issues into land use planning and development practices.
 - Protect, restore and link natural areas throughout the watershed.
 - Promote the recreational opportunities of the watershed.

Milestones:

Year 1: Continue to provide funding to the water quality and stream maintenance programs. In addition to programs which incorporate public involvement. Continued sponsorship of Wetland Identification Class and continued maintenance of signage at County owned properties. Continue funding for Household Hazardous Waste Program.

Years 2-5: Continue support for programs while also reviewing potential public involvement programs and their feasibility.

Illicit Discharge and Detection

BMP No. C.1 Storm Sewer Map Preparation

Brief Description of BMP:

DuPage County is required to produce a map showing the locations of all MS4 outfalls and the location of all waters of the United States that receive discharges from those outfalls.

Over the last five years, DuPage County utilized a number of different methods to create a countywide outfall map. Beginning in the summer of 2005, DuPage County interns mapped the known storm sewer systems managed and maintained by DuPage County. At this time, the County also requested outfall information from all of the cooperating permit holders. The locations of all known MS4 outfalls were input into a GIS database. This was done throughout DuPage County. DuPage County acquired this information in a number of ways. An outfall reconnaissance was done on the three main rivers within DuPage County: West Branch DuPage River, East Branch DuPage River, and Salt Creek. DuPage County staff used GPS units to denote all outfalls encountered along the rivers. All outfalls were identified, even non MS4 outfalls. DuPage County believes all outfalls are possible contributors and felt more data would only enhance the program. The field crews also recorded information about the outfall and took pictures of each outfall. The other 56 watersheds within DuPage County were mapped a number of different ways. Parts of some were physically visited. DuPage County requested outfall data from all the municipalities within the county. This information was reviewed and the municipal outfalls were added to the master outfall database using GIS. Old storm sewer information DuPage County had developed was also used to locate and map outfalls. Staff from DuPage County also located some outfalls after talking with private consultants. DuPage County is currently scheduling meetings with all cooperating permit holders to review the outfalls in the countywide database. The result of this process will be a comprehensive countywide outfall database.

DuPage County has written procedures as to how new outfall and storm sewer information will be incorporated into the GIS database. DuPage County will manage the countywide outfall database. The storm sewer network information for each cooperating permit holder will be housed in a geodatabase, with each cooperating permit holder being responsible for giving DuPage County their storm sewer information. The individual storm sewer networks will be housed separately.

Measurable Goal(s), including frequencies:

As the monitoring portion of the illicit discharge detection and elimination program begins DuPage County staff will verify the accuracy of the outfall database created during the first five years. A measurable goal for this BMP will be how many updates are received from the cooperating permit holders. The success of the original outfall mapping effort will be measured by how many outfalls were incorrectly included in the database and how many others are found that were not identified during the first permit cycle.

Milestones:

Year 1: Coordinate the exchange of outfall and storm sewer network information. Field inspectors will verify the locations of the outfalls identified during the first permit cycle as they monitor the outfalls for illicit discharge.

Year 2: Incorporate new outfall and storm sewer information into the GIS database. Field inspectors will continue to verify the locations and attribute information of the outfalls within the GIS database.

Year 3: Incorporate new outfall and storm sewer information into the GIS database. Field inspectors will continue to verify the locations and attribute information of the outfalls within the GIS database.

Year 4: Incorporate new outfall and storm sewer information into the GIS database.

Field inspectors will continue to verify the locations and attribute information of the outfalls within the GIS database.

Year 5: Incorporate new outfall and storm sewer information into the GIS database.

Field inspectors will continue to verify the locations and attribute information of the outfalls within the GIS database.

BMP No.C.2 Regulatory Control Program

Brief Description of BMP:

As part of the original notice of intent DuPage County indicated it would coordinate stakeholder meetings to evaluate the procedures and methods for completing the regulatory component of the IDDE control measure. DuPage County did indeed create a water quality stakeholder group that met monthly throughout the first five years of the permit. This workgroup addressed the issues necessary to move forward with an IDDE program. The topics discussed at this smaller workgroup were presented to the municipal engineers group periodically. The group discussed the overall structure of the program, i.e. countywide versus individual IDDE programs throughout the County. The group also discussed the outfall mapping process, how to coordinate the efforts of the cooperating permit holders, how to establish monitoring protocols and investigative procedures, and the structure of the countywide ordinance.

DuPage County has developed an IDDE ordinance. The adoption of the ordinance will coincide with the adoption of the overall countywide IDDE program. DuPage County anticipates submitting the IDDE ordinance to the Stormwater committee at the April meeting. There will be a 30 day public review period. DuPage County anticipates the ordinance being adopted by July, 2008. At that point, the cooperating permit holders will have until the end of 2008 to adopt the DuPage County ordinance or submit their own ordinance to the IEPA.

Measurable Goal(s), including frequencies:

The success of this BMP will be measured by the number of outfalls that are identified and fixed, the success of the collaboration efforts between DuPage County and the cooperating permit holders, and the IDDE ordinance withstanding any legal challenges. DuPage County will revise the ordinance as needed.

Milestones:

Year 1: Adopt the Countywide Illicit Discharge Detection and Elimination ordinance. Begin coordinating administrative duties each cooperating permit holder is responsible for.

Year 2: Review the effectiveness of the program by evaluating how well the cooperating permit holders have communicated and exchanged information.

Year 3: Review the effectiveness of the program by evaluating how well the cooperating permit holders have communicated and exchanged information. Review the IDDE ordinance and make any changes deemed necessary.

Year 4: Review the effectiveness of the program by evaluating how well the cooperating permit holders have communicated and exchanged information.

Year 5: Review the effectiveness of the program by evaluating how well the cooperating permit holders have communicated and exchanged information.

BMP No.C.3 Detection/Elimination Prioritization Plan

Brief Description of BMP:

DuPage County has begun developing a detection and elimination prioritization plan. The underpinnings of this plan are the locations of the MS4 outfalls. The location of all the MS4 outfalls within DuPage County is being

finalized. The parameters that will be used to develop the prioritization plan are being developed by DuPage County and their IDDE consultant. DuPage County did not develop a prioritization plan during the first permit cycle. The process of collecting outfalls was given priority as those locations and numbers are essential to creating a prioritization plan. Now that the outfall map is almost complete, the prioritization plan will be the next step.

DuPage County will implement the procedures for creating the prioritization plan. Once the prioritization plan has been developed, DuPage County will use that plan to coordinate the monitoring of MS4 outfalls.

Measurable Goal(s), including frequencies:

The success of the prioritization plan will be measured by the number of illicit discharges that are detected. The point of the prioritization plan is to anticipate the areas in which one would expect to see the highest number of illicit discharges. The detection plan should help locate the major illicit discharges present within the system. The number of outfalls screened will be recorded and all information obtained during the screening process will be documented in the GIS database.

Milestones:

Year 1: The prioritization plan will be applied to the existing MS4 outfall database. The results of this plan will be used to set which outfalls will be monitored and when. DuPage County will begin monitoring outfalls that have been identified during the prioritization process.

Year 2: Priority outfalls will continue to be monitored.

Year 3: Priority outfalls will continue to be monitored.

Year 4: A review of the results from the first three years of monitoring will be done. The procedures that were laid out for prioritization will be repeated on all outfalls that have been added to the outfall database since the last prioritization plan was developed.

Year 5: Priority outfalls will continue to be monitored.

BMP No.C.4 Illicit Discharge Tracing Procedures

Brief Description of BMP:

DuPage County has contracted with a consultant to prepare a technical guidance document for the IDDE program. The technical guidance document chapter will outline the procedures for monitoring outfalls and provide procedures on how best to trace and remove events of illicit discharge through the storm sewer system. During the first permit cycle DuPage County staff did not develop a document outlining the tracing procedure protocols but will have this task accomplished by the time the IDDE ordinance is adopted. The tracing procedures will address the most common types of investigations that will be used to locate events of illicit discharge. DuPage County staff have identified several obstacles to successfully locate the source of an illicit discharge. Therefore, the tracing procedures detailed in the technical guidance document will represent only some of the ways in which illicit discharges can be traced.

Measurable Goal(s), including frequencies:

The effectiveness of the tracing procedures developed by DuPage County will be reviewed throughout the permit cycle. As illicit discharges are discovered, County staff will perform an annual review on all the illicit discharges located and determine what methods have been the most successful. The tracing procedures will be subject to modification if one procedure shows to be a substantially more effective means of locating a discharge. DuPage County will record the number of discharges traced and the methods used to locate each discharge.

Milestones:

Year 1: Begin monitoring MS4 outfalls. Once illicit discharges are detected, the protocols set forth in the technical guidance chapter will be followed. Review the status of all illicit discharges discovered.

Year 2-5: Continue tracing any illicit discharges detected. Make recommendations as to which tracing methods have proven to be the most effective.

BMP No.C.5 Illicit Source Removal Procedures

Brief Description of BMP:

The DuPage County IDDE ordinance will provide the necessary legal structure to provide the permit holder the authority to remove the source of an illicit discharge. This measure is being written into the DuPage County IDDE ordinance and will be tested when an illicit discharge has been detected. The goal of this BMP is to ensure that the permittee has the authority to remove discharges when discovered. In addition, DuPage County will review the methods utilized by the cooperating permit holders and itself to determine what measures have been most successful at removing illicit discharges.

Measurable Goal(s), including frequencies:

DuPage County staff will measure the success of this BMP by reviewing how many illicit discharges were detected, discovered, and subsequently removed. If there are instances where an illicit discharge was detected but the permit holder was not legally able to remove that discharge the removal procedure process will have to be modified. DuPage County will continually review the most effective removal procedures and convey this information to the cooperating permit holders.

Milestones:

Year 1: Begin monitoring MS4 outfalls. Once illicit discharges are detected, the protocols set forth in the technical guidance chapter will be followed. Review the status of all illicit discharges discovered. Enforce the removal of illicit discharges.

Year 2: Continue tracing any illicit discharges detected. Make recommendations as to which tracing methods have proved the most effective. Review the status of all illicit discharges discovered. Enforce the removal of illicit discharges.

Year 3-5: Continue tracing any illicit discharges detected. Review the outcome of the illicit discharges that were detected the previous year. Enforce the removal of illicit discharges.

BMP No.C.6 Program Evaluation and Assessment

Brief Description of BMP:

DuPage County staff will review the IDDE program on an annual basis. The review will focus on the effectiveness of the program and recommendations will be made to the Stormwater Management Committee when staff believes changes should be made to the program. A review of the program is an essential step that will allow DuPage County to modify the IDDE program as it is needed.

Measurable Goal(s), including frequencies:

The success of this BMP will be measured by the number of reviews performed. If the program is successful, and there are no recommendations calling for any changes to the program, this step will have afforded staff the opportunity to learn from the successes of the program. The IEPA will include a synopsis of the program changes recommended as part of the annual review.

Milestones:

Year 1: Develop a procedure for evaluating the IDDE program.

Year 2-5: Review year one of the IDDE program and report the results to the Stormwater Management Committee.

BMP No.C.7 Visual Dry Weather Screening

Brief Description of BMP:

DuPage County will begin dry weather screening in the summer of 2008. The MS4 outfall database that DuPage County developed with the cooperating permit holders will be the basis for the monitoring program. The prioritization plan DuPage County developed will be used to create a screening schedule. The outfalls that have the greatest potential for illicit discharges will be the first to be screened. DuPage County staff will perform dry weather screening throughout DuPage County. The protocols that will be adhered to while performing the dry weather screening will be part of the technical guidance chapter of the IDDE program. DuPage County plans on providing training for its employees and employees of the cooperating permit holders. These training sessions will provide the training necessary for all field staff to detect, report, and remove discharges.

Measurable Goal(s), including frequencies:

DuPage County will keep track of all MS4 outfalls that have been monitored during dry weather. The dry weather screening program will evolve as problem areas are discovered. The eventual goal is to visit all MS4 outfalls within DuPage County.

Milestones:

Year 1: Begin dry weather screening in the summer of 2008. The screening will begin with the outfalls that have the most potential for illicit discharge.

Year 2-5: Continue to dry weather screen throughout the year.

BMP No.C.8 Pollutant Field Testing

Brief Description of BMP:

The technical guidance document that DuPage County is developing will address the pollutants that will be tested for when a dry weather flow is detected. The list of tests that may be done when a discharge is detected will not be exhaustive but only provide guidance as to what tests, at a minimum, should be done at each site. The protocols for taking each sample and handling the samples will be outlined in detail. The consultant working on the technical guidance portion of the IDDE program will be making recommendations as to when dry weather flow should be tested and when it shouldn't. We will be setting trigger levels for the pollutants being tested for. These trigger levels will be the basis for when tracing up the system is warranted.

Measurable Goal(s), including frequencies:

Once dry weather flow has been tested for pollutants a decision will be made as to what further action should be taken. The pollutant field testing portion of the program will be set up so that tracing efforts are undertaken only when certain trigger levels are met. The trigger levels will be open to change as the program develops. This BMP will be measured by the number of illicit discharges that are located after testing has been done. If field testing continually results in DuPage County staff investigating the storm sewer system but never finding the source of the discharge, the levels will have to be modified.

Milestones:

Year 1: Begin dry weather screening in the summer of 2008. Pollutant field testing will be done when warranted.

Year 3: Review the results of the pollutant field tests and make recommendations as to what chemicals seem to pose the greatest threat within DuPage County.

Year 4: Test for additional chemicals if the program review warrants such action.

Year 2-5: Continue to test for pollutants during the dry weather survey.

Construction Site Runoff Control

BMP No. D.1 Regulatory Control Program

Brief Description of BMP:

DuPage County adopted and implemented a Countywide Stormwater and Floodplain Ordinance (Stormwater Ordinance) in 1991, which has been updated five times since the last NOI was issued in February 2002, most recently in February 2006. The Stormwater Ordinance promotes effective, equitable, acceptable and legal Stormwater management, water quality, and natural resource protection measures. The Stormwater Ordinance strictly regulates impacts to wetlands, wetland buffer and riparian habitat. DuPage County has been granted a General Permit by the U.S. Army Corps of Engineers to review impacts to wetlands because the Stormwater Ordinance is considered to be more restrictive in this area than the Federal regulations. Among other post-construction BMPs, the Stormwater Ordinance encourages the use of native vegetation in detention basins, the creation of wetlands, the restoration of riparian and wetland buffer habitat, and the stabilization of eroding streambanks. In addition to the regulations set forth in the Stormwater Ordinance, the DuPage County Building Code (Article I, Section 8-128 and Section 8-129 Grade Regulations and Landscape Regulations) also sets forth guidelines and regulations for all developments, large or small within the County of DuPage. All communities within DuPage County (except two which have opted out to other counties) have adopted and are required to enforce the minimum requirements in the Stormwater Ordinance. Communities may enforce the regulations themselves or opt to have DuPage County regulate and enforce them on their behalf.

Measurable Goal(s), including frequencies:

The Stormwater Ordinance was revised in February 2006 to reflect changes to the sediment and erosion control provisions. However, updating Technical Guidance Appendix E was not completed due to lack of staffing and lack of funds. Updating Appendix E will resume in the new permit, beginning with the inclusion of the DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual).

Milestones:

- Year 1:** Adopt the DuPage County Water Quality Best Management Practices Technical Guidance Document (BMP Manual) into Appendix E. Adopt revisions to the Stormwater Ordinance to more clearly require new developments to incorporate permanent BMPs that will treat stormwater runoff. Pursue an agreement with IEPA to review development applications for compliance with Section 401 for water quality certification.
- Year 2:** Adopt updated Stormwater Ordinance to implement changes that incorporate the DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual)
- Year 3-5:** DuPage County will continue to update the Stormwater Ordinance on a regular basis in order to keep up local and national regulations while implementing appropriate best management practices to lower quantities of pollutants from ending up in out waterways and drinking water.
- Year 1-5:** The County would also like to increase education and training for staff and municipalities in order to promote consistent and effective regulations throughout the county.

BMP No. D.2 Erosion and Sediment Control BMPs

Brief Description of BMP:

The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) and the DuPage County Countywide Stormwater And Flood Plain Ordinance provide guidance on the design and implementation of development practices that prevent stormwater quality degradation and enhance the overall quality of stormwater. The BMP manual and Stormwater Ordinance promote and give guidelines on the installation of vegetated filter strips, vegetated swales, infiltration systems, permeable pavers, manufactured structures, and stormwater detention BMPs such as dry detention basins, wet detention basins, constructed

wetland detention basins and underground detention basins. DuPage County also requires the sediment and erosion control plan for all developments to be designed using the standards of the “Procedures And Standards For Urban Soil Erosion And Sedimentation Control In Illinois” (Blue Book), unless the Stormwater Ordinance is more restrictive, before a building permit will be issued for the proposed work.

Measurable Goal(s), including frequencies:

Updating Appendix E to include the BMP Manual was not completed during the previous permit, however the BMP Manual will be completed and adopted into Appendix E during this permit period.

Milestones:

Year 1-2: The County would like to conduct a series of presentations and seminars that would educate and guide the municipalities within DuPage County on how to regulate the BMP Manual. This would ensure the BMP Manual would be regulated consistently countywide

Year 2-3: Ensure staff has professional ability and appropriate certifications (when necessary) to review and inspect the guidelines of the BMP Manual

Year 3-5: Continue to educate staff on the evolving regulations by offering and attending training programs and seminars.

BMP No. D.4 Site Plan and Review Procedures

Brief Description of BMP:

The DuPage County Department of Economic Development (EDP) requires a Stormwater permit for all developments of 5,000 square feet or greater, developments that affect a wetland or wetland buffer area, or developments within a floodplain to ensure that there are no adverse impacts as a result of the development. Permits that meet the above mentioned thresholds are reviewed by three separate groups within EDP: Engineering, Wetland, and Drainage to ensure that the proposed development meets all of the requirements specified in the Stormwater Ordinance. A central administrator distributes the permits for review and logs the application into a tracking system (Govern *see Annual Report*). The administrator combines all staff reviews and forwards all comments to the applicant. All staff comments must be addressed before a Stormwater permit will be issued for a development. All information regarding the permit is stored within Govern, including all reviews, inspections, and complaints.

Measurable Goal(s), including frequencies:

DuPage County has developed and maintained a successful regulatory permitting program and will continue to implement and update the program as necessary. Monthly meetings with a group of Countywide Stormwater Administrators (Municipal Engineers) to discuss ordinance related issues ensures the Stormwater Ordinance is implemented consistently, fairly and effectively throughout the County. The Municipal Engineers group will continue to meet during the next permit period.

Milestones:

Year 1: Adopting the DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) into Appendix E.

Year 2: Adopt updated Stormwater Ordinance to implement changes that incorporate the DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual)

Year 3-5: DuPage County will offer staff training opportunities where they will be able to review and learn new methods of their evolving fields.

BMP No. D.5 Public Information Handling Procedures.

Brief Description of BMP:

DuPage County maintains an “open” relationship with the public. The County frequently publishes informational brochures and other documents to educate the general public on the importance of the preservation of our natural resources. Questions and/or complaints about proposed and existing developments in DuPage County are received by Staff members who are available to field questions and concerns about developments. If staff is unable to answer the public concerns about proposed development, an opportunity to file a request under FOIA is also available.

There is the opportunity for the public to schedule and attend pre-application meetings with county staff to review any concerns about a proposed development. DuPage County has also established a database to track drainage complaints from the public and generate work orders through its Cityworks software in order to begin to resolve those issues.

Measurable Goal(s), including frequencies:

Continue to improve and update the Public Outreach Program by integrating new programs and tools to aide the public with knowledge and understanding County Policy and services.

Milestones:

Year 1: Adopting the DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) into Appendix E.

Year 2: Adopt updated Stormwater Ordinance to implement changes that incorporate the DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual)

Year 3: Implementation of an interactive informational Kiosk for public usage.

Year 1-5: Continue to field public concerns about proposed developments and implement their concerns in the Stormwater Permit review of the proposed development. Continue to update County website with on-going activities and policies.

BMP No. D.6 Site Inspection/ Enforcement Procedures

Brief Description of BMP:

After a Stormwater permit has been issued for a proposed development in DuPage County, staff conducts site inspections to ensure the project has complied with the issued permit. The site must maintain the proper sediment and erosion control throughout the construction period. If sediment and erosion control has not been maintained on a site, or the approved plans are not adhered to, the County will issue a “Red Tag”, which serves as a notification (not really a warning if they are paying a fine) to the developer that they have fourteen working days to resolve the issue and must also pay a \$75 fine. . All work must cease until resolution has been achieved. Some EDP inspection staff are issued laptop computers that are equipped with the Govern program, and allows inspectors to verify that on-going work has acquired the necessary permits. Work completed with out a permit will be issued a “Red Tag” and must be brought into compliance with the most current Stormwater Ordinance standards.

Measurable Goal(s), including frequencies:

DuPage County has implemented the Govern program to ensure all development and projects have acquired the necessary permits.

Milestones:

Year 1-5: Ensure staff has proper qualifications to conduct site inspections with respect to sediment and erosion control.

Year 1-5: Continue to offer employee training on site inspections.

Year 3: Issue laptop computers to more staff members to ensure developed sites have obtained the proper permits to ensure the site is in compliance with the Stormwater Ordinance.

Post-Construction Runoff Control

BMP No. E.2 Regulatory Control Program

Brief Description of BMP:

Post construction runoff is limited through the Stormwater Ordinance which requires all developments over 25,000 square feet of development area to detain stormwater and runoff with a restricted release rate. The Building Code requires that all basins are planted with native plantings, which have at least a three year maintenance and monitoring period, inspected annually (minimum) by County staff. The Stormwater Ordinance currently requires all developments to incorporate BMPs where practicable and necessary.

The Stormwater Ordinance also addresses site redevelopment through a program called SERZ. SERZ is "stormwater economic redevelopment zone"

The purpose of SERZ is to assist highly impervious sites when redevelopment is proposed, where providing the full amount of detention is not practicable and the Detention Variance Fees discourage redevelopment. Also, SERZ is a standard used when applying for a variance under Section 15-114, effectively leveling the playing field by providing a minimum standard for approving variances for these developments, where there were no minimum standards under the previous ordinance.

Measurable Goal(s), including frequencies:

Continuing to regulate the Stormwater Ordinance will reduce post construction runoff pollutants. Implementing and regulating the BMP Manual will reduce post construction runoff pollutants and will ensure discharge from developed sites will be treated.

Milestones:

Year 1: Adopt the DuPage County Water Quality Best Management Practices Technical Guidance Document (BMP Manual) into Appendix E. Adopt revisions to the Stormwater Ordinance to more clearly require BMPs to treat all runoff from new development in DuPage County.

Year 2-5: DuPage County will offer staff training opportunities where they will be able to review and learn new methods of their evolving fields.

BMP No. E.3 Long Term O&M Procedures

Brief Description of BMP:

The DuPage County Water Quality Best Management Practices Technical Guidance Document (BMP Manual) provides guidance on the design and implementation of development practices that prevent stormwater quality degradation and enhance the overall quality of stormwater. The methods outlined in the manual will be required to be in an Easement that will be monitored over a three-year period to ensure the easement is maintained.

Measurable Goal(s), including frequencies:

Currently, the Stormwater Ordinance requires all major and minor Stormwater facilities be put into an Easement that has a three to five year maintenance and monitoring period. The revision and update to the Stormwater Ordinance to include the BMP updates will require all BMPs be put into an Easement. All permanent BMPs on a proposed plan will have to include a maintenance and monitoring plan for the BMPs.

Milestones:

Year 1: Adopt the DuPage County Water Quality Best Management Practices Technical Guidance Document (BMP Manual) into Appendix E. Adopt revisions to the Stormwater Ordinance to more clearly require BMPs to treat all runoff from new development in DuPage County.

Year 2-5: Continue to enforce the Stormwater Ordinance.

BMP No. E.4 Pre-construction Review of BMP Designs

Brief Description of BMP:

DuPage County currently requires the sediment and erosion control plan for all developments to be designed using the standards of the “Procedures And Standards For Urban Soil Erosion And Sedimentation Control In Illinois” (Blue Book), unless the Stormwater Ordinance specifies more restrictive controls. Staff reviews the BMP designs during the permit process. The Stormwater Ordinance currently requires all developments to incorporate BMPs where practicable and necessary. DuPage County staff review construction plans, reports, modeling, and specifications to ensure compliance with this provision. All developments that propose BMPs that incorporate native vegetation are required to provide a detailed planting plan and accompanying maintenance and monitoring plan which is reviewed for compliance by EDP wetland staff.

Measurable Goal(s), including frequencies:

The DuPage County Water Quality Best Management Practices Technical Guidance Document (BMP Manual) will provide guidance on the design and implementation of development practices that prevent stormwater quality degradation and enhance the overall quality of stormwater. The BMP manual will promote and give guidelines on the installation of vegetated filter strips, vegetated swales, infiltration systems, permeable pavers, manufactured structures, and stormwater detention BMPs such as dry detention basins, wet detention basins, constructed wetland detention basins and underground detention basins. Revisions to the Stormwater Ordinance will more clearly require new developments in DuPage County to incorporate BMPs into their design that will treat all runoff. Further, a water quality fund will be set up to accept fees from applicants who are unable to incorporate BMPs. The water quality fund will be used to fund water quality projects that would not otherwise be required under the Stormwater Ordinance, such as planting an eroding detention basin with native vegetation, restoring a wetland, or stabilizing a streambank. Revisions will also be made to more clearly require that a security is collected to aid in the enforcement of the proper construction and maintenance of BMPs.

Milestones:

Year 1: Adopting the DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) into Appendix E.

Year 1-5: DuPage County will offer staff training opportunities to municipalities and consultants in the review and design of permanent BMPs. Continue to enforce the new Stormwater Ordinance provisions.

BMP No. E.5 Site Inspections During Construction

Brief Description of BMP:

EDP continually inspects sites under construction to ensure sediment and erosion control is maintained throughout the site. Any sediment discharge leaving the site is immediately addressed by EDP staff and may result in a “Red Tag”. If the discharge issue is not resolved in a timely manner, a STOP WORK ORDER will be issued until resolution.

Measurable Goal(s), including frequencies:

During this five-year permit phase, EDP will ensure that all inspection staff recognize inappropriate construction site discharge and proper regulatory procedures for amending the violation. Incidents of Non-Compliance may be issued for a site if the infraction meets the reporting criteria.

Milestones:

Year 1-5: Continue to conduct regular site inspections during construction. Conduct staff training on recognizing inappropriate discharge from a construction site.

BMP No. E.6 Post Construction Inspections

Brief Description of BMP:

Post Construction sites are required to submit As-built permit applications to ensure the project has met all requirements of the original permit. The As-built certification must be signed off before occupancy of a site may take place. Engineering staff, wetland staff and drainage staff to ensure the site meets full compliance complete inspections. Developments that involve BMPs and/or wetland, wetland buffer or riparian mitigation are annually inspected for compliance with Stormwater Ordinance provisions and maintenance and monitoring plans until the requirements therein are satisfied.

Measurable Goal(s), including frequencies:

Update Appendix E to include a technical guidance document for post-construction BMPs (BMP Manual). The BMP manual will require all BMPs to be put into a Natural Area Easement that will be monitored for three years after construction is completed. The Stormwater Ordinance will require that all BMPs are maintained according to a maintenance plan or as necessary.

Milestones:

Year 1: Adopt the DuPage County Water Quality Best Management Practices Technical Guidance Document (BMP Manual) into Appendix E. Adopt revisions to the Stormwater Ordinance to more clearly require BMPs to treat all runoff from new development in DuPage County.

Year 1-5: Continue to offer employee training on site inspections

Pollution Prevention/Good Housekeeping

BMP No. F.1 Employee Training Program

Brief Description of BMP:

The permit requires employee training to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, operation of storage yards, snow disposal, new construction, land disturbances, and storm water system maintenance. Training topics can be on regular street sweeping, reduction in the use of pesticides or street salt, or catch basin cleaning practices. The MS4 permit holder can use training materials that are available from the EPA, their State or Tribe, or relevant organizations.

Staff at DuPage County's Divisions of Transportation (DuDOT) and Public Works has been trained in areas of good housekeeping and pollution prevention through in-house staff training and the attendance at various seminars and classes.

Discussions related to pollution prevention and good housekeeping practices training will continue to take place at the Water Quality Stakeholders Meetings. The Water Quality Stakeholders Group will have discussions on the most appropriate methods for training employees at the County and its municipal facilities in areas of good housekeeping and pollution prevention procedures to prevent and reduce pollutant discharges into stormwater to the maximum extent practicable from maintenance and operation activities of open spaces, buildings, construction and land disturbances, waste disposal and stormwater systems. Topics discussed at the meetings will be shared with the Department of Public Works, DuPage Division of Transportation and Municipal Engineers.

Measurable Goal(s), including frequencies (review of first permit):

The Department of Public Works staff attended various training seminars on topics such as appropriate concrete pipe installation and inspection and an Annual Illinois Association of FloodPlain Managers seminar where NPDES and best management topics were discussed. In addition, staff at the Public Works waste water treatment facilities have attend various training seminars at the Environmental Resource Training Seminar (ERTC) at Southern Illinois University on the topics of preliminary, secondary, and tertiary water treatment procedures, activated sludge, and biosolids for continuing education. The staff at the waste water treatment plants also take semester classes at the College of DuPage and the Joliet Junior College on design operation and maintenance, biosolid disposal and application, chemistry, biology, waste water treatment and collection systems to become licensed and receive state certification on waste water treatment. There is also safety training at the plants and on-going in-house training performed by senior operators for new operators.

DuDOT staff has attended Association of Public Works (APWA) training classes focusing on street sweeping and stormwater runoff issues, vegetation, as well as transportation topics such as Winter Maintenance courses. DuDOT staff is also trained in-house by more experienced staff on appropriate catch basin cleaning and street sweeping procedures. On occasion, businesses and vendors train the DuDOT staff on the proper usage of new equipment when a new product comes on the market such as the Stormceptors. DuDOT Maintenance managerial staff attended a training workshop at the University of Wisconsin for Managing Snow and Ice Control Operations. DuDOT staff also participates in a training program through the Illinois Technology Transfer Center funded by the Federal Highway Administration and individual state departments of transportation. The purpose of the training program is to transfer the latest technology in the areas of roads and bridges to transportation personnel. Some of the courses offered through this transfer-training program are Bridge Construction Inspection, Construction Material Inspection Documentation, Culvert Hydraulics, Pavement Construction

Inspection, Reclaimed Asphalt Pavement (RAP) for Local Agencies, OSHA 10-Hour Construction, and Safety Inspection of In-Service Bridges.

The pollution prevention good housekeeping training workshop was not completed in the previous permit due to staffing issues and time constraints, but will be completed in Year 1 of the new permit. The Water Quality Stakeholders group will continue to meet to discuss proper training procedures and implementation on good housekeeping and pollution prevention for appropriate supervisory and/or management employees on: building and open space maintenance, vehicle/fleet maintenance, materials storage and disposal, infrastructure inspection and maintenance, construction and land disturbances and waste disposal. The water quality discussions will aim to assist supervisors and/or managers with providing guidance to their employees with the appropriate training/information based on their needs. The pollution prevention Water Quality Stakeholder discussions will be shared with Public Works, DuDOT and the Municipal Engineers for collaborative efforts with the on-going pollution prevention training of County staff.

Milestones:

Year 1: A good housekeeping pollution prevention workshop will be conducted by the Conservation Foundation for staff, municipal employees, grounds maintenance and landscaping field staff, and field staff managers that target Public Works and Transportation Departments. Copies of the power point presentation from this good housekeeping training seminar will be distributed through our County website to continue educating staff that does not attend the seminar. It will also provide information to the general public on pollution prevention best management practices. Attendees will be asked to complete a session evaluation as well as submit suggestions for improvements.

Year 2: Improve communications between County agencies including Storm Water Management, Public Works, and Division of Transportation in order to run the good housekeeping pollution prevention program more effectively.

Year 3: Continue organizing training sessions, develop procedures and decide appropriate personnel to attend. Notify appropriate personnel of training sessions as well as posting information in other visible locations such as the County intranet site and facilities' bulletin boards.

Year 4: Conduct another pollution prevention employee training session, targeting those that were unable able to attend the previous session and new hires. Post a power point presentation of the training on the County's website. Record attendees and ask them to complete a session evaluation as well as submit suggestions for program improvements. Collect records of employee training conducted in-house and encourage them to document any other methods of on-going training within their facility.

Year 5: Evaluate the procedures for effectiveness and improve training as necessary based on completed session surveys and suggestions. Offer a refresher training session to previous attendees that include updates. Make arrangements for regular training sessions.

BMP No. F.2 Inspection and Maintenance Program

Brief Description of BMP:

The ILR40 NPDES permit requires that an operation and maintenance program be developed and implemented with the goal in mind of preventing or reducing pollutant runoff from municipal operations in the storm sewer system. DuDOT has developed an inspection and maintenance program that includes routine catch basin cleaning and vacuum street sweeping. Public Works has developed a preliminary inspection and maintenance program for inspecting, maintaining and cleaning components of the (MS4) Municipal Separate Storm Sewer. The MS4 system is inspected at least once a year and maintenance is performed as appropriate.

Measurable Goal(s), including frequencies (review of first permit):

The Public Works Department currently inspects and maintains the MS4 systems on an as-needed complaint basis, which is tracked by a database program called CityWorks. Public Works will implement a routine

preventive maintenance program for long-term maintenance of the MS4 storm sewer system in the future. In addition, Public Works currently has four wastewater treatment plants, which treat the county's sewage and the remnants of sludge from the sewage. The four waste water treatment plants are the Woodridge Green Valley facility at 12 MGD (million gallons per day), Knollwood facility 10 MGD, Nordic facility 0.5 MGD, and a smaller facility near North Avenue and the West Branch DuPage River called the Cascade facility.

The DuPage County Division of Transportation (DuDOT's) maintenance fleet vehicles qualify for an IEPA green fleet status due to their consumption of a biodiesel fuel, which is eighty percent diesel and twenty percent corn. DuDOT also uses the Environmental Roadway Design Practice Manuals as a guideline when constructing and improving roadways to incorporate environmental enhancements and promote good stewardship on a case-by-case basis. DuDOT's catch basins are cleaned approximately once every two years and an outside company cleans the Stormceptors once every two years. DuDOT's highways are swept approximately three times per year and DuDOT owns three vacuum sweepers. DuDOT maintains approximately two hundred and twenty miles of roadway in the County.

DuDOT is currently using, testing and studying the use of an organic deicing super mix of eighty-five percent salt brine, ten percent beet juice and five percent liquid calcium chloride for deicing low-traffic roads, curbs, culverts, bridges, and county parking lots. This super mix of salt brine, beet juice and calcium chloride reduces the amount of salt used thereby protecting the land and aquatic plants, animal life, ground water and eventually the surface water. DuDOT's highway maintenance trucks are also calibrated to reduce the amount of salt sprayed when deicing. The salt used for deicing is kept in an insulated salt dome and the areas surrounding the salt storage are routinely kept clean.

The Stormwater Management Division developed a Stream Maintenance Program to minimize the flooding concerns and maintain the health of the streams within DuPage County. There is currently \$200,000 allocated for funding in the Stream Maintenance Program. As part of the program, stream crews remove sediment, invasive vegetation, trash blockages and other debris to allow the waters from the rivers to flow less polluted and without obstructions downstream during heavy rainfall. Streambank stabilization projects are additionally funded through the Water Quality Improvement Grant Program. Stabilizing the streams reduces soil erosion thereby reducing runoff pollution to the streams and creates a more natural habitat for fish, plants and wildlife. The stabilization methods most commonly used are bioengineering practices such as the installation of A-Jacks, coconut fiber rolls, vegetated geogrids, and gabions.

Milestones:

Year 1: Improve communications between the DuPage County's Storm Water Management, Public Works Department and Division of Transportation in order to run the good housekeeping pollution prevention program more effectively.

Year 2-5: (milestones are being review and discussed with DuPage County's Public Works Department and Division of Transportation)

Year 1-5: Continue Stream Maintenance program.

BMP No. F.4 Municipal Operations and Waste Disposal

Brief Description of BMP :

The ILR40 permit requires that procedures be developed for properly disposing of waste removed from the separate storm sewers and areas such as dredge spoil, accumulated sediments, floatables, and other debris.

Measurable Goal(s), including frequencies (review of first permit):

The Public Works Department has entered into a design contract with Trotter & Associates to design a Vactor Dump Station for the Woodridge Greene Valley Waste Water Treatment facility and complete engineering plans for the preliminary and final design phases and the bidding of the negotiation phase. The Vactor dump station will be utilized for the proper disposal of Vactor waste.

In addition, the DuPage Division of Transportation (DuDOT) has a highway and vehicle maintenance section that controls the amount of pollutants, which runoff from the construction of roadways, storage yards and deicing practices as well as runoff produced by vehicle washing and repairs. DuDOT regularly recycles their car oil filters and batteries and cremates the remains of the animals found on the roadways.

The County co-hosts a yearly hazardous waste collection event with the IEPA to collect items such as cleaning solvents, oil based paints, fertilizers/pesticides, car batteries, automotive fluids, asbestos, and pool chemicals for proper waste disposal. The County has also compiled a Recycling Resource Guide, and other information about household, landscape and solid waste, which is accessible for viewing through the County website at the following link: http://www.dupageco.org/building/generic.cfm?doc_id=514.

Milestones:

Year 1: Improve communications between the DuPage County's Storm Water Management, Public Works Department, and DuPage Division of Transportation to run the good housekeeping pollution prevention program more effectively.

Year 2: (milestones are being review and discussed with DuPage County's Public Works Department and Division of Transportation)

Year 3: Complete the construction of a vactor waste receiving dump station at the Woodridge Greene Valley Waste Water Treatment Facility to treat suspended solids and collect the leachate from the waste by-products to prevent the polluted runoff from going into the streams pending any engineering limitations and delays. The silt and the dried suspended solids from the dump station will be transported to a landfill. County facilities will submit record keeping of pollution prevention and good housekeeping activities for annual reporting.

Year 4-5: (milestones are being review and discussed with DuPage County's Public Works Department and Division of Transportation)

BMP No. F.5 Flood Management/Assess Guidelines

BMP: Watershed Plans/Hydraulic Modeling

Brief Description of BMP:

The DuPage County Stormwater Management Plan assesses and recommends specific corrective actions of localized flooding and water quality degradation through Watershed Plans. A particular watershed plan uses hydrologic and hydraulic models to recommend specific flood control projects as well as identify flood-damaged structures eligible for buyout so that the land can be restored to its natural state. Watershed plans also address water quality enhancements and wetland, wildlife, and environment protection. The County has utilized on-line reservoirs to temporarily hold floodwaters, which have proven successful in reducing downstream flood damages. The County owns and operates reservoirs and related structures to ease flooding

during large precipitation events. Standard operating procedures for reservoirs address security concerns such as dumping or inappropriate use through lighting, fences, and limited access roads and trails. Water Quality Enhancements (Appendix J to the Stormwater Management Plan) encourage the creation of buffer zones surrounding stormwater basins to prevent contamination from off-site. The County is developing hydrologic and hydraulic models for all watersheds and tributary watersheds for the purpose of: analysis of impacts of proposed development or redevelopment in order to issue stormwater management permits; real-time analyses of flood stages for flood control operations; and updates to Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) to reflect current conditions.

Measurable Goals

(Past)

During the past five years several Watershed Plans were approved by the DuPage County Stormwater Management Committee and adopted by the DuPage County Board. A summary of those plans follows. Details regarding any of these plans can be found in the annual reports.

- Addison Creek Watershed Plan, 2003 (Year 1)
- River Dumoulin Flood Control Plan, 2004 (Year 2)
- Rt. 53 North Flood Control Plan, 2004 (Year 2)
- Upper Des Plaines River Tributaries Watershed Plan, 2004 (Year 2)
- Kress Creek Watershed Plan, 2005 (Year 3)
- West Branch DuPage River Watershed Plan, 2006 (Year 4)
- Spring Brook Creek Watershed Plan, 2006 (Year 4)

(Future)

Continue to adopt watershed plans for watersheds in DuPage County. Update existing hydraulic models for use in future planning and floodplain mapping efforts.

Milestones:

Years 1-5:

- Adoption of the Spring Brook No. 1 Watershed Plan
- Adoption of the St. Joseph Creek Watershed Plan

BMP: DPC Stormwater and Flood Plain Ordinance Updates

Brief Description of BMP:

The DuPage County Countywide Stormwater and Flood Plain Ordinance (Appendix F) was adopted in 1991 and became effective in February of 1992 as part of the DuPage County Stormwater Management Plan that affects all development within the County of DuPage. This is the fundamental regulatory program that requires all development within the County of DuPage to not "Unreasonably or unnecessarily degrade surface or ground water quality."

Appendix F contains provisions for flood management and assessment guidelines.

The Stormwater Management Plan: Restricts future development in the flood plain to facilities that will not adversely affect flood damage potential or wetland environments. Within the floodway, development will be prohibited unless it involves facilities that enhance flood protection or pollution control; Requires preservation of wetlands to maintain their natural flood control and environmental benefits; Incorporates water quality and habitat protection measures in all stormwater management activities within DuPage County; and Requires regular, planned maintenance of stormwater management facilities.

The intent of Appendix F is to reduce current and future flood damages by requiring: no permitting of any

Information required by this form must be provided to comply with 415 ILCS 5/39 (2000). Failure to do so may prevent this form from being processed and could result in your application being denied.

development that would negatively impact the hydrology or hydraulics of either the flood plain or the floodway; any proposed structure to be at least one foot above the adjacent Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Base Flood Elevation (BFE); any development or redevelopment to provide for stormwater detention depending on size and use as described in Appendix F; and no permitting of any development or redevelopment that will increase flood elevations by compensating at the volume of 1.5 to 1 to offset the loss of existing storage, increase flood velocities, or decrease flood conveyance capacity to upstream or downstream properties.

Measurable Goals:

(Past)

The DuPage County Countywide Stormwater and Floodplain Ordinance was revised five times over the last five years. A summary follows. Details regarding these revisions can be found in the annual reports.

- March, 2003 (Year 1)
- January, 2004 (Year 1)
- July, 2004 (Year 2)
- March, 2005 (Year 3)
- February, 2006 (Year 3)

(Future)

Continue to make revisions to the DuPage County Countywide Stormwater and Flood Plain Ordinance as necessary.

Milestones:

Years 1-5:

- Adoption of the Best Management Practices Guidance Manual along with the ordinance revisions that are associated with this document.
- Review and revise, as needed, Appendix F and other related appendices.

BMP: Flood Control Projects

Brief Description of BMP:

The construction and operation of flood control projects that incorporate reservoirs help reduce the risk of and often prevent flooding. These reservoirs prevent floodwaters from inundating residential, industrial and business areas where additional pollutants are picked up and distributed to environmentally sensitive areas elsewhere. The storage of floodwaters in reservoirs also provides water quality benefits by promoting the settling of sediments. These areas are often planted with native vegetation that acts as a buffer to the runoff as it enters the reservoir and encourages wildlife habitat. In addition, a couple of our pump-evacuated reservoirs have aeration facilities that aerate the stormwater before re-entering the stream system. The Elmhurst Quarry and the Wood Dale- Itasca Flood Control Facilities are two such facilities along Salt Creek. These aeration sites are very important since the Environmental Protection Agency has listed dissolved oxygen as an impairment in the Salt Creek TMDL report.

Measurable Goals

(Past)

Several projects were constructed over the past five years, many with water quality features incorporated into them. A list of projects follows. Details regarding these projects can be found in the annual reports.

- Wood-Dale Itasca Reservoir Construction completed (Year 1). The side slopes and bottom of the reservoir are planted with native vegetation in order to promote enhancements to water quality.
- Eldridge Park weir modification, 2003 (Year 1). This offline reservoir promotes the settling of sediments.

- Marion Hills/Dale Road basins constructed, 2003 (Year 1). Both basins are planted with native plantings that enhance the vegetative quality of the area.
- Marion Hills/Crest Road Basin constructed, 2005 (Year 3). The basin is planted with native vegetation and promotes the settling of sediments from flood waters.
- Wood-Dale Itasca Operation and Maintenance Improvements contract, 2006 (Year 4)
- Country Lakes Storm Sewer Improvements, 2007 (Year 5)
- Deep Over-Wintering Pool, 2007 (Year 5)
- Vernal Pools, 2007 (Year 5)
- River Dumoulin Project Phase I pump station construction, 2007 (Year 5). This project is intended to protect residential areas from flooding. This benefits water quality by preventing floodwaters from entering buildings, especially garages, where pollutants like fertilizers and motor oil are stored that could be released during a flood event.

(Future)

Continue on-going efforts to ease flooding and flood damages to the maximum extent practicable.

Milestones:

Years 1-5:

- Complete Phase II of the River Dumoulin Project
- Construct the Marion Hills/75th Street Basin Project
- Complete the installation of the Country Lakes Golf Course storm inlet to the new storm sewer system.
- Implement the recommendations in the Springbrook Creek Watershed Plan
- Execute contract that will provide for vegetative maintenance and enhancements at many of the County's existing flood control facilities.
- Construct the Busse Woods Dam Modifications Project.
- Construct the other NOAA projects.
- Construct the Huffman Street project in the Steeple Run Watershed.

BMP: Community Audits for compliance with the DPC Countywide Stormwater and Flood Plain Ordinance

Brief Description of BMP:

Non-waiver, partial-waiver and complete waiver communities are randomly audited over a five-year period by DuPage County regulatory staff in order to check for compliance with the Stormwater Ordinance.

Measurable Goals

(Past)

Audits were not conducted during the past five years due to budget and personnel cuts in the Department.

(Future)

Begin to audit non-waiver, partial-waiver and complete waiver communities again in DuPage County for compliance with Appendix F.

Milestones:

Years 1-5: Randomly audit non-waiver, partial-waiver and complete waiver communities again in DuPage County for compliance with Appendix F.

Brief Description of BMP:

Floodplain mapping defines areas that are at risk to flooding. Knowing the boundaries of the floodplain helps to limit the construction of structures in flood risk areas. Limiting such construction can reduce the risk of debris and pollutants, such as fertilizers, gasoline and motor oil from contaminating floodplain areas during flood events.

Measurable Goals

(Past)

The floodplain mapping of Tributary No. 2 to the East Branch DuPage River and Ginger Creek, a tributary to Salt Creek, was incorporated into the DFIRM map that became effective December 16, 2004. The floodplain maps for these two tributaries were developed using the County’s HSPF/FEQ/PVSTATS methodology (Year 2).

(Future)

Submit floodplain maps using the County’s HSPF/FEQ/PVSTATS methodology are to be submitted to FEMA for review and approval. Mandatory review and comment periods will be established by FEMA.

Milestones:

Years 1-5:

- Salt Creek mainstem and its tributaries including Ginger, Sugar, Oak Brook Tributary, Bronswood Cemetary Tributary, Westwood Creek and Spring Brook.
- Steeple Run Tributary.
- Sawmill Creek Tributary.
- Kress Creek Tributary.
- Spring Brook No. 1 Tributary.
- Armitage Creek Tributary.

BMP: FIRM Updates

Brief Description of BMP:

DuPage County, a Cooperating Technical Partner with FEMA, updated the Flood Insurance Rate Maps (FIRM) on a countywide basis. These maps became effective on December 16, 2004 and are known as the DFIRM. The DFIRM maps will continue to be updated as the County completes floodplain mapping for other watersheds in DuPage County using its HSPF/FEQ/PVSTATS methodology.

Measurable Goals

(Past)

A Countywide DFIRM map was approved and became effective for DuPage County on December 16, 2004. Dual-county communities can use the flood hazard information shown on these maps for “information purposes only” and cannot use them for flood insurance purposes.

(Future)

Corrections and updates will be made to the DFIRM maps and the dual-county issues will be resolved.

Milestones:

Years 1-5: Corrected and updated DFIRM maps will be approved and adopted by FEMA.

