
Annual Facility Inspection Report – Section B

Year 10 of NPDES Permit No. ILR400308

Village of Carol Stream, 2nd Notice of Intent (Year 4)

NOTE

For each BMP see DuPage County's Annual Report for the Village's participation in qualifying local programs that were implemented countywide.

PUBLIC EDUCATION & OUTREACH

A.1: Distribution of Paper Material

Goals

Carol Stream utilizes paper materials to assist in providing information for programs, procedures, and research to residents and non-residents of Carol Stream. The Village has created two brochures: *Pond Shoreline Restoration Program* and *Living Along A Shoreline Or Stream Bank – How The Village Maintains These Valuable Areas & What You Can Do To Help*, and one booklet: *Jay Stream Shoreline Enhancement Project – Plant Identification Photo Gallery*. We also use numerous other brochures, fact sheets and handouts developed by other organizations such as DuPage County, The Conservation Foundation, Forest Preserve District of DuPage County, United Recycle, COM2, Flood Bros., Clarke Environmental Mosquito Management Inc., Illinois Environmental Protection Agency, Christopher B. Burke Engineering, Ltd. and other governmental agencies. These paper materials provide information about various Village programs, including pond shoreline stream bank stabilization; the promotion of best management practices; and provide general guidance on how to improve water quality throughout the County.

The Village will continue to distribute existing brochures, fact sheets and handouts as well as the publication of Correspondent News articles and Village Happenings news letter articles. As new material is developed the additional material that is prepared by other groups and agencies will be distributed.

Year 4 Milestones

Continue with the publication and distribution of available paper materials.

Summary of Accomplishments

Village Staff distributed and made the following informational material available:

- ◆ *Maintenance and Management of Naturalized Areas* – DuPage County Department of Economic Development & Planning
- ◆ *DuPage County Wetlands and Streams* – DuPage County Department of Economic Development & Planning
- ◆ *West Chicago Prairie* – Forest Preserve District of DuPage County
- ◆ *Living with Wildlife in DuPage County* – Forest Preserve District of DuPage County

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- ◆ *Why are Invasive Species a Problem? – The Conservation Foundation*
- ◆ *City of Naperville – Regional Household Hazardous Waste Facility*
- ◆ *ComEd – Incentives, tools and tips to help you save money, energy and the environment*
- ◆ *Carol Stream – Earth Day Festival & Farmers Market*
- ◆ *Wayne Township Reuse and Recycle Event*
- ◆ *DuPage Recycling Guide*
- ◆ *DuPage County Adopt –a – Stream Program – DuPage County Stormwater Management Division*
- ◆ *DuPage Water Commission – Outdoor Water Use*
- ◆ *DuPage Water Commission – Water Quiz – How Much Water Do You Use?*
- ◆ *DuPage County Department of Economic Development and Planning – Maintenance and Management of Naturalized Areas*
- ◆ *Environmental Protection Agency – eCycle! Donate or Recycle Electronics - Protect your environment*
- ◆ *DuPage County - A Citizen's Guide to Monitoring Stormwater – Illicit Discharge Detection & Elimination*
- ◆ *DuPage County Stormwater Management Begins Wetland May Initiative*
- ◆ *DuPage County Forest Preserves – Blaze New Trails & Volunteer; Spring Into Volunteering; Go Green*
- ◆ *Residential Electronics Recycling Program Opportunities – Village of Carol Stream*
- ◆ *Village of Carol Stream Earth Day Recycling Event*
- ◆ *Annual Great Western Trails Clean Up*
- ◆ *Backyards for Wildlife – The Conservation Foundation*
- ◆ *Dump No Waste! Drains to River! – The Conservation Foundation*
- ◆ *Where does the rain go? – The Conservation Foundation*
- ◆ *Liver near a detention pond? – The Conservation Foundation*
- ◆ *Water Conservation Pledge – Preserving Every Drop – DuPage Water Commission*
- ◆ *Living Along A Shoreline Or Stream Bank – How The Village Maintains These Valuable Areas & What You Can Do To Help – Village of Carol Stream*
- ◆ *RxBox Disposing Meds Safely – DuPage County Health Department*
- ◆ *Updating DuPage's Stormwater and Flood Plain Ordinance – DuPage County*
- ◆ *Storm Drain Stenciling – The Conservation Foundation*
- ◆ *DuPage County Recycling Guide – DuPage County*

The following articles were prepared and published in the E-Stream Newsletter:

- ◆ *Stormwater Survey*
- ◆ *Flood Safety Awareness Week*
- ◆ *Earth Hour 2013*
- ◆ *SCARCE Hosts Recycling Extravaganza (4 Articles)*
- ◆ *Village of Carol Stream Residential Guide – Refuse, Recycling, Yard Waste Collection*
- ◆ *45%+5 Recycling Challenge Kicks Off (3*

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- ◆ *Acceptable Curbside Recycling Items*
- ◆ *DuPage County Recycling Guide*
- ◆ *Waste Management Recycle America – Single Stream Specifications*
- ◆ *Disposal of Electronics at Curbside is Strictly Prohibited*
- ◆ *Recycle your Holiday Tree*
- ◆ *Electronics Placed @ Curb Side is Illegal*
- ◆ *Village of Carol Stream Snow Removal Policies*
- ◆ *Free Christmas Tree & Greenery Pick Up*
- ◆ *Use Discounted Fall Leaf Stickers & Save*
- ◆ *Backyard Composting Tips, Compost Recipe, Different Styles of Compost Bins*
- ◆ *Wastes- Resource Conservation – Reduce, Reuse, Recycle - Composting*
- ◆ *Create Your Own Compost Pile (2 Articles)*
- ◆ *Composting at Home*
- ◆ *Elgin Recycling*
- ◆ *DuPage County Document Shredding Events (3 Articles)*
- ◆ *DuPage County Recycling Events and Extravaganzas*
- ◆ *Cantigny Green Fair – Activity Line Up*
- ◆ *Annual Hanover Park Recycling Event (2 Articles)*
- ◆ *Village of Carol Stream Outdoor Water Restrictions in Effect (3 Articles)*
- ◆ *Pamphlet – Outdoor Water Conservation*
- ◆ *Naperville Household Hazardous Waste Facility – A guide for safe disposal (4 Articles)*
- ◆ *Storm Damage Tree Branch Pickup*
- ◆ *Village of Carol Stream - Village Wide Brush Collection*
- ◆ *Sanitary Sewer Infiltration & Inflow Study to Begin*
- ◆ *DuPage Forest Preserve District - Restoration in Progress Tours*
- ◆ *My Ash Tree is Dead...Now What Do I Do?*
- ◆ *Pond & Stream Sweep Volunteer Sign Up (2 Articles)*
- ◆ *Water Conservation Tips*
- ◆ *SCARCE – Donate Books*
- ◆ *Stop unwanted mail – Block Unsolicited Mail, Opt-out of Unwanted Mail*
- ◆ *SCARCE – Cell Phone Rescue*
- ◆ *Call2Recycle Rechargeable Battery and Cell Phone Recycling Locations*
- ◆ *Donate Classroom Supplies/Equipment*
- ◆ *Lowe’s Launches Recycling Centers in US Stores*
- ◆ *Home Depot Launches National CFL Bulb Recycling Initiative*
- ◆ *Rain Barrels – New Lower Price!*

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- ◆ *Village Board Adopts the FY12-13 Budget*
- ◆ *Village of Carol Stream Hosts Earth Day Recycling Event*
- ◆ *Great Western Trail Cleanup*
- ◆ *Holiday Lights Recycling (8 Articles)*
- ◆ *RX Box Disposing Meds Safely – Carol Stream (5Articles)*
- ◆ *Free Leaf Pick Up Week November 19th – 24th (2Articles)*
- ◆ *Electronics Landfill Ban*
- ◆ *How to Properly Dispose Latex Paint Video*
- ◆ *Emerald Ash Borer – Hiring a Tree Contractor*
- ◆ *Emerald Ash Borer Update*
- ◆ *Insecticide Options for Protecting Ash Trees from Emerald Ash Borer*
- ◆ *Hiring a Tree Care Company – What You Need to Know*
- ◆ *Wayne Township Recycling Event – Sat., June 2nd (3 Articles)*

The Village Staff prepared and published several Village Happenings news letter articles on:

- ◆ *Parade Committee Hosts Dine in Fundraiser on Wednesday April 24th at Culvers*
- ◆ *Giant Garage Sale*
- ◆ *Celebrate 2013 Earth Hour, Saturday, March 23rd.*
- ◆ *SCARCE Recycling Extravaganza, Saturday, February 23rd*
- ◆ *Support the 45%+5 Recycling Challenge*
- ◆ *Recycle Your Broken Holiday Light Strands (2 Articles)*
- ◆ *Recycle Prescription & Over the Counter Medications 24/7/365*
- ◆ *Free Holiday Tree & Wreath Pick Up Scheduled from January 2nd – 15th*
- ◆ *Holiday Lights Recycling Locations*
- ◆ *Free Leaf Pick Up Scheduled for the November 19th Refuse Collection Week*
- ◆ *Raking Leaves into the Street & Curb is Prohibited*
- ◆ *6 Week Fall Leaf Sticker Use Period Begins October 15th Collection Week*
- ◆ *DuPage County Hosts Document Shredding Event on Saturday, October*
- ◆ *SCARCE to Host Annual GREEN Fair & Cantigny Park in Wheaton*
- ◆ *Hanover Park Hosts Annual Fall Recycling & Document Shred Event*
- ◆ *Gary Avenue Reconstruction Informational Meeting Scheduled*
- ◆ *Outdoor Watering Restrictions in Effect Year Round – Help Preserve Every Drop (2 Articles)*
- ◆ *Wayne Township Hosts Recycling Extravaganza on Saturday, June 2nd*
- ◆ *Volunteers Needed for the 2012 DuPage Pond & Stream Sweep*
- ◆ *Village Board Adopts FY12-13 Budget & 3-Year Financial Plan*
- ◆ *Southeast Stormwater Improvement Study*

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- ◆ *Rotary Club, Village & Park District to Host Earth Day Fest/Farmer's Market & Recycling Event (2 Articles)*
- ◆ *Volunteers Needed for the 2013 DuPage County Pond & Stream Sweep Event (2 Articles)*

The following water billing messages were sent out:

- ◆ *Annual Pond & Stream Sweep – Request for volunteers*
- ◆ *Gary Avenue Reconstruction – Notice of DuPage County's Open House Meeting*
- ◆ *Odd/Even Watering Regulations in Effect Year Round – Notice of the Village's watering restrictions*
- ◆ *'Shape of Carol Stream' Town Hall Meeting – Notice of multi-agency meeting*
- ◆ *Community Emergency Response Team (CERT) Volunteers Needed*
- ◆ *Document Shredding – Notice of recycling document shredding event*
- ◆ *Use Discounted Leaf Stickers – Notice promoting the use of discounted leaf stickers*
- ◆ *FREE Leaf Pick Up Scheduled for the Nov. 19th – 24th Refuse Collection Week*
- ◆ *Holiday Lights Recycling – Notice of event collecting holiday lights for recycling*
- ◆ *FREE Christmas Tree & Wreath Pick Up Jan. 2nd – 15th*
- ◆ *Recycle Your Broken Holiday Light Strands – Notice of event collecting holiday lights for recycling*
- ◆ *Yard Waste Pick Up Resumes – Notice to residents reminding them when yard waste pick up resumes*
- ◆ *Earth Day Recycling Collection Event – Sat., April 20th*

The Village Board adopted the following proclamations and resolutions:

- ◆ *Designating March 18- 22 as Flood Awareness Week*
- ◆ *Award of Contract for Preliminary Engineering Services – Armstrong Park/Library Pedestrian Bridge Inspection, Evaluation & Recommendation.*
- ◆ *Award of Contract – Ciosek Tree Service*
- ◆ *Water Reclamation Center Contractor (WRC)*

A.2: Speaking Engagement

Goals

The Village has used speaking engagements as an additional means to provide the public with information on storm water issues, procedures, and information. Village Staff have previously made several different presentations and seminars on storm water quality and will continue to present information to residents and elected officials on storm water quality issues and solutions.

Year 4 Milestones

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Continue to provide homeowners associations and other groups with information about storm water issues, values, procedures, maintenance efforts and solutions to better educate them and equip them to play a role. Encourage Staff to seek opportunities and participation in speaking engagements.

Summary of Accomplishments

The Village is a dues paying member of the DuPage River/Salt Creek Workgroup (DRSCW) which meets regularly and has made the following speaking engagements and presentations:

- ◆ Optimal Buffer Width for improving mIBI Scores – Municipal Engineers Advisor Group for DM&MC
- ◆ What’s Going on in Our Waterways? – Village of Lisle
- ◆ Chlorides in Streams – Village of Arlington Heights Public Works Snow Fighting Training
- ◆ TMDLs and Adaptive Management – USEPA Region 5’s TMDL Practitioners Workshop
- ◆ Habitat Restoration Results of the Churchill Woods Dam Removal Project
- ◆ Chloride Usage Education and Reduction Program Public Roads Workshop
- ◆ Chloride Usage Education and Reduction Program Parking Lot and Sidewalk Workshop

At the State of the Village a presentation was conducted by the Mayor advertising the Village’s Annual Pond & Stream Sweep Event.

At the July 13, 2012 Listening Post, a local resident presented the Village’s accomplishment in the Illinois Cool Cities Local Sustainability Protection Agreement.

A.3: Public Service Announcement

Goals

Public service announcements are utilized to reach large groups of people and inform them of issues regarding storm water management and water quality. The Village will continue with the preparation of News Releases.

Year 4 Milestones

Continue with the preparation and release of storm water quality related articles to local news papers.

Summary of Accomplishments

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The Village prepared and distributed numerous News Releases that included:

- ◆ *Free Fall Leaf Pick-Up Scheduled for the Nov. 19th Collection Week (2 Articles)*
- ◆ *Recycling Your Broken Holiday Light Strands thru Monday, February 4th*
- ◆ *Outdoor Watering Restrictions in Effect Year Round*

The following articles were in the local newspapers:

- ◆ *Signs of Spring – Weather can't dampen spirits at Earth Day in Carol Stream*
- ◆ *Emerald Ash borer responsible for serious tree damage*
- ◆ *Village sustains war on pest, to swap more trees*
- ◆ *Village Rotary Club to Host Earth Day Event*
- ◆ *Village grants contracts with a vision to spring*
- ◆ *Residents may recycle lights through February 4th (3 Articles)*
- ◆ *Carol Stream could pay more for flood project*
- ◆ *Village offers drug disposal drop box plan*
- ◆ *Public Works Department ready for winter weather*
- ◆ *Looking back at big DuPage stories of 2012 – Aldrin Community Center was removed to make way for a \$5 million county stormwater management project aimed at providing flood relief for the neighborhood.*
- ◆ *Village seals the deal on use of select sealants*
- ◆ *Carol Stream slow to warm to Cool Cities concept*
- ◆ *Carol Stream transfers 16 acres to park district*
- ◆ *Free leaf pickup scheduled week of Nov. 19th*
- ◆ *Village elects to place hold on pack approval*
- ◆ *Village selects vendor for tree debris removal*
- ◆ *Carol Stream creek cleanup doubles*
- ◆ *Sewer system smoke testing to take place*
- ◆ *Village cleans up after storms sweep the area*
- ◆ *Armstrong Park flood project pre-final plans done*
- ◆ *Fourth Carol Stream house to be razed for flood relief*
- ◆ *Carol Stream Annual Pond & Stream Sweep, Saturday, May 18th (3 Articles)*

Village Staff prepared the following notices and broadcast them on our public access channel #6:

- ◆ *FREE! / Pick Up of Holiday Trees & Wreaths / Jan. 2 – 12*
- ◆ *Document Shredding for Commercial Business Only / Fri., June 21 / 9 – 11 AM / DuPage Cty. Fairgrounds*
- ◆ *FREE / Recycle Electronics Drop Off / Sat. May 8th / 9 am – Noon / Ferraro Town Ctr.*
- ◆ *Household Hazardous Waste Drop Off Collection / Every Sat. & Sun. 9 am – 2 pm / Naperville Firehouse #4*

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- ◆ *Village Code Prohibits Raking Leaves into Curb / Clogged Storm Drains Will Cause Street Flooding / Clear Fallen Leaves from Storm Inlets*
- ◆ *Latex Paint Recycling from June 6 thru July 22 / Mon. – Fri. 8 am – 2 pm/ Greene Valley Sanitary Plant/ 7900 Rt. 53 in Woodridge*
- ◆ *Earthday Fest. & Farmer’s Market / Sat., April 21 / 10 am – 2pm / Town Center Gary @ Lies*
- ◆ *Be Part of the Solution/ Volunteers Needed for Pond & Stream Sweep/ Sat., May 18 8:00 -11:00 am / Supplies & Water Provided*
- ◆ *RECYCLE / Earthday Recycle Event / Sat., April 20 / 9:00 am – Noon / Town Center Gary @ Lies / Computers & Electronics / Document Shredding*
- ◆ *SEASON’S GREETINGS / Recycle Your Holiday Lights Thru Feb. 4th / Any 1 of 3 Locations*
- ◆ *Storm Damage Tree Branch PICK UP / Must have branches @ curb no later than 7:00 am Fri., July 6 / ?? Call (630) 871-6260*
- ◆ *WATER USE IT WISELY / Odd – Even / Outdoor Water Restrictions in Effect Year Round*

Gary Avenue electronic sign messages:

- ◆ *Household Hazardous Waste Disposal*
- ◆ *Great Western Trail Clean Up*
- ◆ *Stream Sweep Volunteers Needed*
- ◆ *Recycling Event*
- ◆ *Recycle Holiday Greenery*
- ◆ *Kuhn Road Bike Path Dedication*
- ◆ *2nd Annual Green Fair*
- ◆ *Electronics Landfill Ban Goes into Effect on January 1, 2012*
- ◆ *No Raking Leaves into Curb*
- ◆ *Klein Creek Reservoir Watershed Improvement Public Meeting*
- ◆ *Environment Web Portal – Green Carol Stream*
- ◆ *DuPage River Coalition Meetings Open to Public*
- ◆ *Village schedule controlled pond burns*

Village Staff prepared the following notices in the Village of Carol Stream Employee Newsletter:

- ◆ *Free Document Shredding*
- ◆ *Holiday Lights Recycling Begins (2 Articles)*
- ◆ *2013 Earth Hour*
- ◆ *Electronics Recycling*

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A.4: Community Event

Goals

Community events provide opportunities for Carol Stream personnel to provide information to volunteers, residents, businesses and the general public about a variety of storm water management and water quality issues. The Village utilizes several different events to reach these people and will continue to provide educational material to all volunteers in our annual Pond & Stream Sweep event.

Year 4 Milestones

Continue conducting the yearly Pond & Stream Sweep and provide informational material on storm water quality related topics to all volunteers.

Summary of Accomplishments

The Village held its annual Pond & Stream Sweep on Saturday, May 19th, 70 volunteer, 11 groups removed 1,020 lbs. of trash and debris from 5.2 miles of shorelines along 11 ponds and stream sections.

The Village conducted an Earth Day Community Recycling Event 2012 event successfully diverted over 1,000 lbs. of e-waste, 85 lbs. of used clothing and athletic shoes and 11 used bikes and several mobility assistive devices.

The Village's Rx Box Program collected 1,475 lbs. of drugs and medical supplies.

A total of 4,459 lbs. of holiday lights were collected for recycling yielding 535 lbs. of industry-grade copper. The entire proceeds were donated to the Village's Christmas Sharing Program.

The Adopt-A-Highway program utilized volunteers from six (6) community organizations to perform twenty-two (22) cleanings removing trash from twenty-two (22) miles of roadways.

A.6: Other Public Education

Goals

Other public education initiatives allow further opportunities to promote storm water management and water quality issues. The Village will finalize the creation of the environmental web page.

Year 4 Milestones

Continue updating the Village’s environmental web page as new and better information becomes available.

Summary of Accomplishments

The Village’s “Environmental Web Portal” and “Storm Water Management” web page offers a wealth of information on the Village’s efforts toward addressing storm water quality issues and how residents can make an impact. No Environmental Web Portal or Storm Water Management web page updates were made in 2012. However, revisions to the Water Resources section of the Environmental Web Portal and Storm Water Management web page are contemplated for 2013.

The DRSCW performed the following additional educational activities in 2012:

- ◆ The web site was updated with new reports and educational materials.
- ◆ Chloride Fact Sheets have continued to be made available to various stakeholders.
- ◆ The article, A Tool to Rebuild Aquatic Life, was published in the newsletter
- ◆ A brochure on coal tar sealants as a source of Polycyclic Aromatic Hydrocarbons (PAHs)
- ◆ MOU for communities to sign declaring that they are discontinuing the use of coal tar based sealants.

These are the technical presentations the DRSCW presented in 2012:

- ◆ De-icing Liquids – A Success Story
- ◆ Preliminary Results for Churchill Woods Dam Removal
- ◆ Nutrient Removal Upgrade Costs at POTWs
- ◆ The Application of Monitoring and Modeling in Watershed Management
- ◆ Salt Creek East Branch DO and DO Improvement Feasibility Study

Village Staff attended the following educational programs:

- ◆ DuPage River Salt Creek Workgroup Meetings – 6/27, 8/29, 10/16, 10/31, 12/5/12
- ◆ DuPage County Countywide Stormwater and Flood Plain Ordinance – Update
- ◆ DuPage County Municipal Engineers Group Meeting – Attended 10 meetings – DuPage County

Prepared and presented the Villages’ Five, Ten and Twenty Year Capital Improvement Program (CIP) to the Village Board in a public workshop and Board meeting.

PUBLIC INFORMATION/INVOLVEMENT

B.3: Stakeholder Meeting

Goals

Stakeholder meetings provide the opportunity for individuals and groups of people with a vested interest in storm water management and water quality to exchange ideas and goals. The Village will continue support of the DRSCW, Municipal Engineers Advisory Group and the Storm Water Quality Stakeholders' Committee meetings.

Year 4 Milestones

Continue participation in the DRSCW, Municipal Engineers Advisory Group and the Storm Water Quality Stakeholders' Committee meetings. Continue financial support of the DRSCW.

Summary of Accomplishments

Village Staff regularly attended and provided input at Municipal Engineers Group meetings on the following topics:

- ◆ Update of the DuPage County Countywide Stormwater Management and Flood Plain Ordinance discussing numerous topics
- ◆ NPDES Annual Report
- ◆ Sustainable Design Challenge
- ◆ Annual Report Reminder
- ◆ Ordinance Enforcement
- ◆ Impervious Surface Definition & Interpretation
- ◆ Wetland Map Funding
- ◆ General Certifications
- ◆ Stormwater Performance Recommendations Meeting & Illinois EPA's Rural NPS Workshop
- ◆ Chloride Reduction Update

DuPage County continued monitoring outfalls as part of the IDDE Program.

The Village and DuPage County held a meeting with the residents for the Armstrong Park Flood Control Project and another neighborhood meeting was held to inform residents on the design and schedule of the overall project. The Carol Stream Park District also held a neighborhood meeting.

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Village Staff regularly attends the DRSCW meetings to discuss and address TMDL issues. Staff participates with other Municipal Engineers, Public Works Directors, POTWs, IEPA and various environmental groups. The DRSCW accomplished the following:

- ◆ Ambient chloride monitoring
- ◆ Dissolved oxygen monitoring
- ◆ Bioassessment sampling
- ◆ Data analysis
- ◆ Assessment reports
- ◆ Continued with legislation to fund Stormwater quality improvement projects through IEPA NPDES fees.
- ◆ Served on the project committee where an alternative approach to EPA's proposed ineffective phosphorus limits on publicly owned treatment works (POTWs) was prepared. This alternative approach would implement far less costly stream habitat restoration projects with a far greater probability of success.
- ◆ Participated in further topographic screenings that assessed candidates for potential stream habitat restoration projects.
- ◆ Conducted the Fawell Dam Fish Passage Study to identify various modifications to improve fish passage upstream.
- ◆ Presented results of the Churchill Woods Dam Removal Project which realized improvements in stream habitat and fish species.
- ◆ Submitted review comments on the Association of Illinois Soil and Water Conservation District's Post Development Stormwater Runoff Performance Standards.

Village Staff has participated on a DRSCW subcommittee for the Chloride Usage Education & Reduction Study. The Village Engineer chaired this subcommittee in implementing chloride reducing strategies through monitoring and education.

The Village Engineer was a participant on the DRSCW Projects Committee.

Village Staff met or corresponded with several prospective developers including: Wheaton Christian Center, Minnesota Company, Fed Ex, O'Reilly Auto Parts, Caputo's, Windfall Plaza, Jet-Brite, TW Metals, Meyer Material, A. J. Antunes, New Directions Housing, M/I Homes Easton Park, Peacock Engineering, Auto Mechanics Union Local 701, Carol Stream Park District, DuPage County Armstrong Park Flood Control Project, Wheaton College Baseball Field, Packaging Personified, Community Housing Advocacy and Development, Windsor Park Manor, Flood Brothers, Prince Castle, Belmont Village, Home Depot, Corpus Christi Catholic Church, DuPage County Division of Transportation Gary Avenue Improvements, Representative from the company redeveloping the former Mobile Station, Illinois Department of Commerce and Economic Opportunity, Invensys Control, Shell Gas Station, Carol Stream Park District Recreation Center, McDonalds, Carolshire Commons, CB Richard Ellis, IEPA, Michelin Tire representatives, Meineke Auto Service, Cash4Gold, Representatives at 475 Randy, Representatives of a Glendale Heights Company, Fitness business on Commonwealth, Packaging Business at New Holland Property, Burger King Redevelopment, Army Trail Car Wash, Easy Street Car Wash, Park District Armstrong Park Library Bridge, Amcore Bank, Elk Trail Chiropractic, Winfield Creek Watershed Study and Park District Veterans Trail Fire Lane.

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B.4: Public Hearing

Goals

The Village utilizes several different public hearings or meetings to allow for public comment and involvement. These meetings afford the opportunity for concerned citizens to gain insight into the different storm water policies, procedures, regulations, programs and initiatives. Public hearings can be in the form of informational meetings for private as well as public projects, Plan Commission and Zoning Board of Appeals meetings, Village Board meetings or committee meetings. Changes or variances to the Storm Water Ordinance will require Village Board approval at a Board meeting.

The Village will hold public meetings as necessary for any storm water ordinance changes or variances; continue to hold Plan Commission and Zoning Board of Appeals and Village Board meetings for subdivisions, grant of easements, annexations, preliminary plans, special use permits and planned unit developments and conduct open house informational meetings on major Village projects.

Year 4 Milestones

Continue to hold public hearings or meetings for storm water ordinance changes, variances, subdivisions, grant of easements, annexations, preliminary plans, special use permits, planned unit developments and major Village projects.

Summary of Accomplishments

The Village accomplished many tasks at Village Board meetings to satisfy our permit obligations for this BMP. The Village Board took action on 13 special use requests, 4 planned unit developments, 8 variances, 4 corridor reviews, 4 annexation agreements, 5 plats of subdivision, 2 grants of stormwater easements, 12 awarded contracts for stormwater services and on these other following items:

- ◆ Village signs an MOU among DRSCW members voluntarily abstaining from the purchase of use of coal tar based sealants
- ◆ DuPage County Natural Hazard Mitigation Plan Update
- ◆ Resolution Approving CH2MHill (OMI) to participate in the Adopt-A-Highway Program
- ◆ Resolution Declaring Surplus Property to be disposed of by recycling
- ◆ Ordinance Amending Chapter 16 of the Municipal Code of the Village of Carol Stream (Zoning Code)
- ◆ Ordinance Adopting the Revised DuPage County Countywide Stormwater and Flood Plain Ordinance – Stormwater Ordinance
- ◆ Ordinance Adopting the General Certifications (GCs) for Chapter 15 of the Revised DuPage county Countywide Stormwater and Flood Plain Ordinance – Stormwater Ordinance
- ◆ Ordinance Amending Chapter 6; Building Construction and Maintenance Codes, Article 9: Flood Prone Areas and Chapter 6: Building Construction and Maintenance Codes; Article 14: DuPage County Countywide Stormwater and Flood Plain Ordinance and Chapter 7: Subdivision Code, Article 5: Land Movement Regulations and Chapter 7: Subdivision Code, Article 7: Flood Prone Areas and Chapter 7: Subdivision Code, Article 9: Stormwater Detention of the Carol Stream Code of Ordinances

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◆ Resolution Supporting the Cities for Climate Protection Campaign – Cool Cities

Permit Review - Staff reviewed and issued 1,438 building permits that included 10 for new residential homes, 964 (67%) for residential improvements and 117 (8%) for commercial and industrial building improvements.

Planning & Zoning Administration - Staff prepared 23 separate development cases for consideration by the Plan Commission.

Economic Development – Staff assisted 63 businesses locate into the community including Sweet Mornings, Caputo’s Fresh Market, Cabinets & Granite Direct, C&C Power, Zones & MC2.

Prepared and presented the Villages’ Five, Ten and Twenty Year Capital Improvement Program (CIP) to the Village Board in a public workshop and Board meeting.

B.6: Program Coordination

Goals

The Village’s Storm Water Management Program provides policy, direction and procedures to ensure all programs are properly coordinated. The Village will continue to review and update the Program as needed.

Year 4 Milestones

Review the Storm Water Management Program and make the appropriate changes where necessary.

Summary of Accomplishments

No changes were made to our Storm Water Management Program policies or procedures.

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B.7: Other Public Involvement

Goals

In 1999 the Village began its annual Pond & Stream Sweep clean up event. This event was modeled after the popular DuPage County River Sweep where volunteers clean up sections of rivers. The Village had previously implemented a successful Adopt-A-Highway Program and felt our ponds and streams also needed attention. The Village began its Pond Shoreline & Stream Bank Restoration Program in 1998. This Program saw the completion of four restoration projects utilizing bioengineering practices on pond shorelines, stream banks and wetlands. The Village then began its Pond & Stream Management Program where these and other natural areas are continually evaluated and maintained.

The Village will continue with the Pond & Stream Sweep and Adopt-A-Highway Programs as well as maintaining the existing illegal dumping signs around the protected areas.

Year 4 Milestones

Continue to conduct both our annual Pond & Stream Sweep and our Adopt-A-Highway Program events. Maintain existing illegal dumping signs.

Summary of Accomplishments

The Village held its annual Pond & Stream Sweep on Saturday, May 19th, 70 volunteer, 11 groups removed 1,020 lbs. of trash and debris from 5.2 miles of shorelines along 11 ponds and stream sections. At this event storm water educational material is provided to all the volunteers (Living Along A Shoreline Or Stream Bank – How The Village Maintains These Valuable Areas & What You Can Do To Help).

A total of 4,459 lbs. of holiday lights were collected for recycling yielding 535 lbs. of industry-grade copper. The entire proceeds were donated to the Village's Christmas Sharing Program.

The Adopt-A-Highway program utilized volunteers from six (6) community organizations to perform twenty-two (22) cleanings removing trash from twenty-two (22) miles of roadways.

The Village conducted an Earth Day Community Recycling Event where over 1,000 pounds of e-waste, 85 pounds of used clothing and athletic shoes, 11 used bikes and several mobility assistive devices were collected, all for recycling.

The Park District held an Eco-Festival & Farmer's Market where Village Staff provided information on water conservation and other environmental materials.

The Village's Rx Box Program collected 1,475 lbs. of drugs and medical supplies.

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A total of 5,019 lbs. of holiday lights were collected for recycling. The entire proceeds were donated to the Village's Christmas Sharing Program.

Provided comments on DuPage County's website with a blog for the update of the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Managers Conference Review Group of the Ordinance update.

Community Development has begun preparation of the grant application for development of a new comprehensive plan. Letters of support are being solicited from various officials and organizations.

Engineering continues to work with the Municipal Engineers Group (MEG) on the DuPage County Stormwater Ordinance revisions. Some controversial regulations may need to be addressed through the DuPage Mayors & Managers Conference Review Group.

Attended the Winfield Creek Stakeholder Group Meeting

Provide staff support to various agency working groups including the Municipal engineers Group, DuPage River Salt Creek, the Winfield Creek Stakeholders Group, EPA Phosphorus Project Committee, IEPA Fecal Coliform Septic field Mapping group as well as the DuPage County Natural Hazard Mitigation work group.

DuPage County held a Stormwater Ordinance Discussion Session.

Village staff coordinated with DuPage County and the Carol Stream Park District in the construction of the Armstrong Park Flood Control Reservoir and Siphon Project.

Engineering staff actively participated in the Winfield Creek Watershed Stakeholders Group as the County began their Watershed Flood Control Study and Plan.

Village Staff met or corresponded with several prospective developers including: Wheaton Christian Center, Minnesota Company, Fed Ex, O'Reilly Auto Parts, Caputo's, Windfall Plaza, Jet-Brite, TW Metals, Meyer Material, A. J. Antunes, New Directions Housing, M/I Homes Easton Park, Peacock Engineering, Auto Mechanics Union Local 701, Carol Stream Park District, DuPage County Armstrong Park Flood Control Project, Wheaton College Baseball Field, Packaging Personified, Community Housing Advocacy and Development, Windsor Park Manor, Flood Brothers, Prince Castle, Belmont Village, Home Depot, Corpus Christi Catholic Church, DuPage County Division of Transportation Gary Avenue Improvements, Representative from the company redeveloping the former Mobile Station, Illinois Department of Commerce and Economic Opportunity, Invensys Control, Shell Gas Station, Carol Stream Park District Recreation Center, McDonalds, Carolshire Commons, CB Richard Ellis, IEPA, Michelin Tire representatives, Meineke Auto Service, Cash4Gold, Representatives at 475 Randy, Representatives of a Glendale Heights Company, Fitness business on Commonwealth, Packaging Business at New Holland Property, Burger

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King Redevelopment, Army Trail Car Wash, Easy Street Car Wash, Park District Armstrong Park Library Bridge, Amcore Bank, Elk Trail Chiropractic, Winfield Creek Watershed Study and Park District Veterans Trail Fire Lane.

Community Development and Engineering met this week with representatives of the company that acquired the property on the southeast corner of Gary/Lies. Potential uses for the property and potential economic development incentives were discussed.

Engineering staff met with the DuPage County Division of Transportation and their consultant to discuss preliminary plans and permitting for Gary Avenue Improvement Project. The project includes 2.1 mile of pavement improvement from North Avenue to Army Trail Road. Stormwater detention requirements will be met through upsizing of storm sewer pipes. Flood plain compensatory storage will be provided in the pond immediately north of the culvert.

Received, investigated and resolved 22 drainage and storm water issues through the Village's Citizen Service Request (CSR) process.

ILLICIT DISCHARGE DETECTION & ELIMINATION

C.1: Storm Sewer Map Preparation

Goals

The Village has created a map showing the location of all storm sewer outfalls within our jurisdiction. This map was created using a global positioning system (GPS) to locate features and a geographical information system (GIS) to map those features. We have also created a GIS storm sewer system map utilizing an existing Mylar map. These maps have been provided to DuPage County in GIS format and will be utilized in their regional IDDE Program for monitoring and tracing purposes. We have begun collecting GPS coordinates and attribute data on all the storm sewer network features.

The Village will update our MS4 storm sewer outfall map as necessary. We will continue to collect GPS coordinates of storm water map features and revise our storm sewer system map. Both the storm sewer system and storm sewer outfall maps will be provided to DuPage County as updates are made.

Year 4 Milestones

Carol Stream will continue to update both its storm sewer outfall and storm sewer system maps using GPS and GIS technology. We will provide revised maps to DuPage County in the requested format.

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Summary of Accomplishments

The Village collected 116 utility (water, sanitary sewer and storm sewer) coordinates in 2011 utilizing GPS technologies. In total the Village has collected 10,465 GPS coordinates of utility structures over the last several years. This accounts for over 95% of all storm sewer structures, both public and private, in the Village.

The Storm Sewer Outfall Map was updated.

The following storm water management maps were created:

- ◆ WRC site storm sewer map – site drainage
- ◆ Public Works Sanitary Sewer Map basin #24

C.2: Regulatory Control Program

Goals

Carol Stream was required to participate with DuPage County and other municipalities in the formation of regulatory controls as part of the IDDE control measure. Carol Stream participated in the Storm Water Quality Stakeholders' Committee monthly meetings throughout all five years of the permit. The Committee's recommendations on mapping, monitoring, tracing and enforcement processes and procedures were periodically brought to the Municipal Engineers Advisory Group. The Committee has also produced a draft IDDE ordinance.

The Village will adopt an Illicit Discharge Detection & Elimination ordinance and continue to participate on the Municipal Engineers Advisory Group in the preparation of regulatory processes and procedures.

Year 4 Milestones

Participate on the Municipal Engineers Advisory Group in the preparation, review or revision of regulatory processes and procedures. Communicate and exchange with DuPage County the required information for an effective program.

Summary of Accomplishments

DuPage County continued monitoring outfalls through dry weather screening as part of the IDDE Program.

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Engineering staff regularly attended and provided input at Municipal Engineers Group meetings where the stormwater ordinance was discussed and recommendations made for updating and revising the ordinance. The Village adopted an Ordinance Adopting the Revised DuPage County Countywide Stormwater and Flood Plain Ordinance – Stormwater Ordinance and an Ordinance Adopting the General Certifications (GCs) for Chapter 15 of the Revised DuPage county Countywide Stormwater and Flood Plain Ordinance – Stormwater Ordinance.

C.5: Illicit Source Removal Procedures

Goals

The Village's IDDE ordinance will provide the necessary legal structure and the authority to remove the source of an illicit discharge. This measure is being written into Carol Stream's IDDE ordinance and will be tested when an illicit discharge has been detected. Upon notification from DuPage County that they have positively identified the illicit discharge source, the Village will follow the protocols to have the illicit discharge removed.

Carol Stream staff will measure the success of this BMP by reviewing how many illicit discharges were removed compared to how many were traced to their source. If there are instances where an illicit discharge source was identified but we were not legally able to remove that discharge the removal procedures and process may need to be modified.

Year 4 Milestones

Once DuPage County notifies the Village of the source of an illicit discharge, the protocols set forth in the technical guidance chapter will be followed to have that illicit discharge removed. Carol Stream will provide DuPage County with the status of each illicit discharge that is in the process of being removed.

Summary of Accomplishments

A storm system protection plan and Standard Operating Procedure at the Water Reclamation Center that was initiated in the prior period has been formalized (including map referenced in C.1). Annual training is in place for all plant personnel.

On April 7, 2012 at approximately 8:04 pm, Public Works was notified of a Sanitary Sewer Overflow at 1287 Crystal Shore Dr. By 9:20 pm the blockage was cleared and normal sanitary flows resumed. Although no obvious cause for the blockage was detected, there was a presence of grease in the line that was revealed during the flushing work performed after the blockage was cleared. The homeowner of 1192 Winding Glen Drive had a minimal back up near the ejector pit in their basement. After the blockage had been cleared and normal flows resumed in our sanitary mains, staff performed a thorough street cleaning in the area of the overflow. The street was washed and the affected storm sewer catch basin was quarantined and vacuumed out. The captured water was then decanted back into the sanitary system for proper handling. On

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April 9, 2012, Village staff performed spot checks for the affected areas to investigate for problem areas and determine if any further attention may be needed.

The Water/Sewer Division completed sanitary sewer inflow and infiltration analysis in two basins to identify sources of inflow and infiltration of storm water into the sanitary sewer system and to plan for repair and/or replacement of failed sections of infrastructure.

The Water Reclamation plant fully complied with its EPA discharge standards.

Village staff met with a local industry with a history with repeated violations of sanitary sewer discharge limits to discuss their request for increases.

A leak in the McCaslin Park sanitary sewer force main was repaired by the Village's contractor for the Southwest Water Main Extension Project.

After the IEPA conducted a review of the Village's WRC stormwater management practices and a site inspection they determined the Village was in compliance. This was following a situation that occurred last year where a brief overflow of a manhole on the grounds had entered the stormwater collection system.

On April 7th a sanitary sewer overflow occurred at 1287 Crystal Shore Drive. Two minimal backups also occurred at 1189 Easton Drive and 1192 Winding Glen Lane. The blockage was cleared and normal sanitary sewage flow was reestablished. The street was thoroughly cleaned with the affected catch basin being quarantined and vacuumed out. The captured water was then decanted back into the sanitary sewer system for proper handling. On April 9th Village staff performed spot checks of the affected area.

The Village witnessed two workers from a carpet cleaning firm discharging dirty soapy water from a storage tank within their van into a parking lot stormwater system located off Schmale Road. The Village informed them this contaminated water must be discharged into a sanitary sewer and not into the storm sewer and that these actions were considered an illicit discharge violation which could result in enforcement action. The Village also provided a brochure "A Citizens Guide to Monitoring Stormwater" and directed the carpet cleaning company to educate their employees.

An inspection at 172 Easy Street resulted in an illicit discharge spill of greasy material into a storm sewer basin. The catch basin was cleaned and the material removed. The owner of the company was also informed of their need to educate staff on proper handling procedures and to take the steps necessary to prevent a similar incident from occurring in the future.

The Village investigated a complaint by IEPA about Illicit Discharges into the storm sewer system at 191 E. North Avenue. Our investigation revealed the concerns were unfounded as the floor drains were properly connected to the sanitary sewer system.

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The Village received notification from an environmental consultant to alert users of private wells that a chemical contamination at All Cleaners, 337 East Geneva Road. The Village monitored the situation.

The Village's WRC operator reported a violation in the effluent chlorine level for a short period in the second week of May. The violation was immediately reported to IEPA and Village staff met with OMI staff to review the incident, identify process failures and make sure the violation is not repeated.

During the last week of May a fecal violation at the WRC was reported to IEPA. An internal investigation was conducted and found chlorine levels at the effluent point were well within limits for prevention of a fecal violation. It appears that a sampling bottle was contaminated.

C.6: Program Evaluation & Assessment

Goals

Carol Stream staff will review our mapping, regulatory control program and source removal procedures of the IDDE Program on an annual basis. The review will focus on the effectiveness of the Program and recommendations will be provided when staff believes changes should be made to the program. A review of the program is an essential step that will allow Carol Stream to modify the IDDE Program as it is needed. 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. Any necessary changes to the mapping, regulatory control or source removal procedures that would aid in removing illicit discharges will be evaluated for modifications to the Program. Changes will be made where deemed appropriate and necessary.

Year 4 Milestones

Continue with the annual evaluation and assessment processes developed in the first year.

Summary of Accomplishments

Engineering staff regularly attended and provided input at Municipal Engineers Group meetings where updates to the DuPage County Storm Water Ordinance. Provided comments on DuPage County's website with a blog for the update of the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Managers Conference Review Group of the Ordinance update.

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The Village continued collecting GPS coordinates for both public and private storm sewer systems, approximately 95% complete, to develop a comprehensive map of the entire system. Connectivity and pipe networking of GPS structures is on going. Once completed the map will be provided to DuPage County which will better enable them to trace illicit discharges and identify their source(s).

Engineering Staff is a member and active participant in the DRSCW which monitors all three watersheds and worked on the facilitation of the fecal choliform TMDL.

Village staff attended the following educational seminars:

- ◆ DuPage County Stormwater Ordinance Discussion Session (2 employees)
- ◆ LPC-663, Uncontaminated Soil Certification
- ◆ ArcGIS Online: The Mapping Platform for Your Organization
- ◆ DuPage County Stormwater Ordinance Update
- ◆ Vector operations and maintenance (21 employees)
- ◆ Salt spreader operation and calibration (14 employees)
- ◆ Underground storage tank Operator Training – Class C (3 employees)
- ◆ Underground storage tank Operator Training – Class A/B
- ◆ SCADA operations (10 employees)
- ◆ Conservation Foundation: It Takes a Community...(6 employees)
- ◆ Inflow and Infiltration seminar
- ◆ Public Roads De-icing Workshop
- ◆ GHS/Hazard Communication – Train the Trainer (2 employees)

CONSTRUCTION SITE RUNOFF CONTROL

D.1: Regulatory Control Program

Goals

In 1991 Carol Stream adopted and implemented the DuPage County Countywide Storm Water and Flood Plain Ordinance (Storm Water Ordinance). The Storm Water Ordinance has been amended numerous times over the past seventeen year, five times since the last NOI was issued in February 2002 and most recently in February 2006. The Storm Water Ordinance promotes effective, equitable, acceptable and legal storm water management control measures. Carol Stream enforces all provisions of the Storm Water Ordinance. The Storm Water Ordinance was revised in February '06 to reflect changes to the sediment and erosion control provisions. However, updating Technical Guidance Appendix E was not completed due to lack of staffing

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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).

The Village will assist DuPage County with the adoption of the BMP Manual, adopt an updated Storm Water Ordinance that incorporates the BMP Manual, continue to adopt the Storm Water Ordinance as new revisions are made and train staff on the new requirements of the Storm Water Ordinance and the technical guidance in the BMP Manual.

Year 4 Milestones

Carol Stream will continue to adopt the Storm Water Ordinance as it is updated by DuPage County to keep up with local and national regulations while implementing appropriate best management practices to lower quantities of pollutants from ending up in out waterways and drinking water. Village personnel will attend educational and training sessions as offered by DuPage County to help maintain a more consistent and effective application of the regulations throughout the county.

Summary of Accomplishments

Attended the Municipal Engineers Advisory Group meetings and provided public comment and technical support on several storm water management issues including:

- ◆ Municipal Engineers Group
- ◆ Proposed Ordinance Changes
- ◆ Consideration to Vote on Proposed Amendments to CSFPO
- ◆ CSFPO Certification Extensions, Etc.
- ◆ Flow Charts for Revised Ordinance
- ◆ Product Introduction: Restrictor Guard
- ◆ Discussion/Approval: Proposed letter of support for DuPage County's application for funding for a wetland map update from USEPA Region 5, Wetland Program Development Grant
- ◆ DuPage County Stormwater and Flood Plain Ordinance Revision Adoption
- ◆ Fence GC Special Condition and IDNR-OWR Involvement
- ◆ Reduce Runoff: Slow it Down, Spread it Out, Soak it In

Provided comments at the MEG on the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Mangers Conference Review Group of the Ordinance update.

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The following training sessions were attended:

- ◆ Physical and Biological Goals of the Clean Water Act: What Stormwater Professionals Need to Know
- ◆ LPC-633, Uncontaminated Soil Certification
- ◆ Reduce Runoff: Slow it Down, Spread it Out, Soak it In
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Discussion Session
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Update
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Impervious Surface Definition & Interpretation
- ◆ DuPage County Stormwater and Flood Plain Ordinance – General Certification Development
- ◆ Compost Ability to Filter Pollutants

D.2: Erosion & Sediment Control BMPs

Goals

The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) provides guidance on the design and implementation of development practices that prevent storm water quality degradation and enhance the overall quality of storm water. The BMP manual promotes and gives guidelines on the installation of vegetated filter strips, vegetated swales, infiltration systems, permeable pavers, manufactured structures, and storm water detention BMPs such as dry detention basins, wet detention basins, constructed wetland detention basins and underground detention basins. These BMPs can be utilized for construction site run-off control. In addition the Storm Water Ordinance has specific requirements in the sediment and erosion control section which must be met before a storm water permit will be issued for the proposed work.

The Village will attend training sessions on how to regulate the BMP Manual and train staff on new regulations as they become effective.

Year 4 Milestones

Continue to educate staff on the evolving regulations by attending training programs and seminars.

Summary of Accomplishments

The following training sessions were attended:

- ◆ Physical and Biological Goals of the Clean Water Act: What Stormwater Professionals Need to Know
- ◆ LPC-633, Uncontaminated Soil Certification
- ◆ Reduce Runoff: Slow it Down, Spread it Out, Soak it In
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Discussion Session

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- ◆ DuPage County Stormwater and Flood Plain Ordinance – Update
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Impervious Surface Definition & Interpretation
- ◆ DuPage County Stormwater and Flood Plain Ordinance – General Certification Development
- ◆ Compost Ability to Filter Pollutants

D.4: Site Plan & Review Procedures

Goals

The Storm Water Ordinance requires a storm water permit for all developments of 5,000 square feet or greater or developments in or effecting special management areas (SMAs): wetlands and wetland buffer areas, floodplains, floodways or riparian areas. This is to ensure that there are no adverse impacts as a result of the development. Carol Stream -administers all provisions of the Storm Water Ordinance which must be met before a storm water permit will be issued for a development. 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 Storm Water Administrators (Municipal Engineers Advisory Group) to discuss ordinance related issues ensures the Storm Water Ordinance is implemented consistently, fairly and effectively throughout the County. The Municipal Engineers group will continue to meet during the next permit period.

The Village will continue reviewing storm water permit applications in conformance with Storm Water Ordinance, aid DuPage County with the adoption of the BMP Manual, adopt new Storm Water Ordinances as they are updated and offer training opportunities to staff.

Year 4 Milestones

Carol Stream will offer staff the ability to attend training seminars or workshops where they will be able to review and learn new methods of their evolving fields.

Summary of Accomplishments

Attended the Municipal Engineers Advisory Group meetings and provided public comment and technical support on several storm water management issues including:

- ◆ Municipal Engineers Group
- ◆ Proposed Ordinance Changes
- ◆ Consideration to Vote on Proposed Amendments to CSFPO
- ◆ CSFPO Certification Extensions, Etc.
- ◆ Flow Charts for Revised Ordinance

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- ◆ Product Introduction: Restrictor Guard
- ◆ Discussion/Approval: Proposed letter of support for DuPage County's application for funding for a wetland map update from USEPA Region 5, Wetland Program Development Grant
- ◆ DuPage County Stormwater and Flood Plain Ordinance Revision Adoption
- ◆ Fence GC Special Condition and IDNR-OWR Involvement

Provided comments at the MEG on the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Mangers Conference Review Group of the Ordinance update.

The following training sessions were attended:

- ◆ Physical and Biological Goals of the Clean Water Act: What Stormwater Professionals Need to Know
- ◆ LPC-633, Uncontaminated Soil Certification
- ◆ Reduce Runoff: Slow it Down, Spread it Out, Soak it In
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Discussion Session
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Update
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Impervious Surface Definition & Interpretation
- ◆ DuPage County Stormwater and Flood Plain Ordinance – General Certification Development
- ◆ Compost Ability to Filter Pollutants

Through the use of an engineering consultant, all storm water permit submittals were reviewed. A total of 10 permits were issued.

D.5: Public Information Handling Procedures

Goals

Carol Stream offers numerous opportunities for the public to review and comment on storm water issues related to a development. Staff is available to answer questions or concerns and frequently arranges meetings to discuss issues. Different public meetings give the public the opportunity to hear testimony, view plans, raise concerns and make comments. Those meetings include: Plan Commission and Zoning Board of Appeals meetings, Village Board meetings, committee meetings or our Listening Post. For those instances where staff can not answer their questions they can utilize the Freedom of Information Act process.

Carol Stream has a Citizen Service Request (CSR) process where individual can file complaints or seek staff assistance on drainage and other storm water issues. As CSRs are received they are assigned to an employee, investigated and responded to the citizen. Sometimes enforcement action is necessary. The Village also has a database to track the status of the CSR.

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The Village will continue handling all complaints and requests through the Village's CSR process, hold public meetings where they can view plans and comment on storm water issues and offer meetings where development or the public can comment on storm water concerns.

DuPage County held a public hearing on the proposed modifications to the DuPage County Countywide Stormwater & Flood Plain Ordinance on March 6, 2012.

DRSCW conducted the following technical presentations: Stormwater Permits Program: Current Issues; Watershed – Based NPDES Permitting

Year 4 Milestones

Continue to field public complaints and requests utilizing the Village's CSR process. Conduct open public meetings where the public can comment on storm water issues. Continue to offer meetings for developers as well as the public to obtain information and comment on storm water concerns.

Summary of Accomplishments

Attended the Municipal Engineers Advisory Group meetings and provided public comment and technical support on several storm water management issues including:

- ◆ Municipal Engineers Group
- ◆ Proposed Ordinance Changes
- ◆ Consideration to Vote on Proposed Amendments to CSFPO
- ◆ CSFPO Certification Extensions, Etc.
- ◆ Flow Charts for Revised Ordinance
- ◆ Product Introduction: Restrictor Guard
- ◆ Discussion/Approval: Proposed letter of support for DuPage County's application for funding for a wetland map update from USEPA Region 5, Wetland Program Development Grant
- ◆ DuPage County Stormwater and Flood Plain Ordinance Revision Adoption
- ◆ Fence GC Special Condition and IDNR-OWR Involvement

Provided comments at the MEG on the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Mangers Conference Review Group of the Ordinance update.

The Village accomplished many tasks at Village Board meetings to satisfy our permit obligations for this BMP. The Village Board took action on 13 special use requests, 4 planned unit developments, 8 variances, 4 corridor reviews, 4 annexation agreements, 5 plats of subdivision, 2 grants of stormwater easements, 12 awarded contracts for stormwater services and on these other following items:

- ◆ Village signs an MOU among DRSCW members voluntarily abstaining from the purchase of use of coal tar based sealants

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- ◆ DuPage County Natural Hazard Mitigation Plan Update
- ◆ Resolution Approving CH2MHill (OMI) to participate in the Adopt-A-Highway Program
- ◆ Resolution Declaring Surplus Property to be disposed of by recycling
- ◆ Ordinance Amending Chapter 16 of the Municipal Code of the Village of Carol Stream (Zoning Code)
- ◆ Ordinance Adopting the Revised DuPage County Countywide Stormwater and Flood Plain Ordinance – Stormwater Ordinance
- ◆ Ordinance Adopting the General Certifications (GCs) for Chapter 15 of the Revised DuPage county Countywide Stormwater and Flood Plain Ordinance – Stormwater Ordinance
- ◆ Ordinance Amending Chapter 6; Building Construction and Maintenance Codes, Article 9: Flood Prone Areas and Chapter 6: Building Construction and Maintenance Codes; Article 14: DuPage County Countywide Stormwater and Flood Plain Ordinance and Chapter 7: Subdivision Code, Article 5: Land Movement Regulations and Chapter 7: Subdivision Code, Article 7: Flood Prone Areas and Chapter 7: Subdivision Code, Article 9: Stormwater Detention of the Carol Stream Code of Ordinances
- ◆ Resolution Supporting the Cities for Climate Protection Campaign – Cool Cities

Permit Review - Staff reviewed and issued 1,438 building permits that included 10 for new residential homes, 964 (67%) for residential improvements and 117 (8%) for commercial and industrial building improvements.

Planning & Zoning Administration - Staff prepared 23 separate development cases for consideration by the Plan Commission.

Village staff coordinated with DuPage County and the Carol Stream Park District in the construction of the Armstrong Park Flood Control Reservoir and Siphon Project.

Engineering staff actively participated in the Winfield Creek Watershed Stakeholders Group as the County began their Watershed Flood Control Study and Plan.

Village Staff met or corresponded with several prospective developers including: Wheaton Christian Center, Minnesota Company, Fed Ex, O'Reilly Auto Parts, Caputo's, Windfall Plaza, Jet-Brite, TW Metals, Meyer Material, A. J. Antunes, New Directions Housing, M/I Homes Easton Park, Peacock Engineering, Auto Mechanics Union Local 701, Carol Stream Park District, DuPage County Armstrong Park Flood Control Project, Wheaton College Baseball Field, Packaging Personified, Community Housing Advocacy and Development, Windsor Park Manor, Flood Brothers, Prince Castle, Belmont Village, Home Depot, Corpus Christi Catholic Church, DuPage County Division of Transportation Gary Avenue Improvements, Representative from the company redeveloping the former Mobile Station, Illinois Department of Commerce and Economic Opportunity, Invensys Control, Shell Gas Station, Carol Stream Park District Recreation Center, McDonalds, Carolshire Commons, CB Richard Ellis, IEPA, Michelin Tire representatives, Meineke Auto Service, Cash4Gold, Representatives at 475 Randy, Representatives of a Glendale Heights Company, Fitness business on Commonwealth, Packaging Business at New Holland Property, Burger King Redevelopment, Army Trail Car Wash, Easy Street Car Wash, Park District Armstrong Park Library Bridge, Amcore Bank, Elk Trail Chiropractic, Winfield Creek Watershed Study and Park District Veterans Trail Fire Lane.

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Community Development and Engineering met this week with representatives of the company that acquired the property on the southeast corner of Gary/Lies. Potential uses for the property and potential economic development incentives were discussed.

Engineering staff met with the DuPage County Division of Transportation and their consultant to discuss preliminary plans and permitting for Gary Avenue Improvement Project. The project includes 2.1 mile of pavement improvement from North Avenue to Army Trail Road. Stormwater detention requirements will be met through upsizing of storm sewer pipes. Flood plain compensatory storage will be provided in the pond immediately north of the culvert.

Received, investigated and resolved 22 drainage and storm water issues through the Village's CSR process.

D.6: Site Inspection/Enforcement Procedures

Goals

Staff periodically conducts site inspections to ensure the project has complied with the requirements of the storm water permit. The contractor must maintain the proper sediment and erosion control throughout the construction period. If sediment and erosion control measures are not being maintained Carol Stream will notify the contractor/developer of the infraction and issue a date when they must come into compliance. If the infraction is not resolved within the specified time period a warning will be issued. If the violation is not corrected within 24 hours a Stop Work Order will be issued and a fine can be levied. At that time all work must stop until the issue has been satisfactorily resolved and the Village has lifted the Stop Work Order.

The Village will continue performing site inspections on all developments that have been issued a storm water permit for soil and erosion control and offer staff training opportunities on site inspections of storm water management facilities.

Year 4 Milestones

Ensure staff has proper qualifications to conduct site inspections with respect to sediment and erosion control. Continue to offer employees the ability to attend training on site inspections of storm water management facilities.

Summary of Accomplishments

The following training sessions were attended:

- ◆ Physical and Biological Goals of the Clean Water Act: What Stormwater Professionals Need to Know
- ◆ LPC-633, Uncontaminated Soil Certification
- ◆ Reduce Runoff: Slow it Down, Spread it Out, Soak it In

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- ◆ DuPage County Stormwater and Flood Plain Ordinance – Discussion Session
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Update
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Impervious Surface Definition & Interpretation
- ◆ DuPage County Stormwater and Flood Plain Ordinance – General Certification Development
- ◆ Compost Ability to Filter Pollutants

All construction sites were inspected for soil and erosion control in 2012 and logged into a database to track and document inspections.

A stockpile at the County's Armstrong Park Flood Control Reservoir Project was not properly protected from soil erosion. Staff inspected the site and had the County bring the stockpile into compliance.

POST CONSTRUCTION RUNOFF CONTROL

E.2: Regulatory Control Program

Goals

Post construction runoff is limited through the Stormwater Ordinance which requires all developments over 25,000 square feet of development area to detain storm water and runoff with a restricted release rate. The Stormwater Ordinance requires that all storm water management facilities be designed with BMPs. The Village has set a policy that BMPs for storm water storage facilities are designed and constructed with wetland shelves and native prairie buffer plantings.

The Storm Water Ordinance also addresses site redevelopment through a program called SERZ. SERZ is "storm water 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.

The Village will aid DuPage County with the adoption of the BMP Manual, adopt new Storm Water Ordinances as they are updated and offer training opportunities to staff.

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Year 4 Milestones

Carol Stream will offer staff the ability to attend training seminars or workshops where they will be able to review and learn new methods of their evolving fields.

Summary of Accomplishments

The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) was previously adopted into Appendix E of the DuPage County Stormwater Management Plan in 2008. No revisions have been made to the DuPage County Water Quality Best Management Practices Technical Manual since then.

Attended the Municipal Engineers Advisory Group meetings and provided public comment and technical support on several storm water management issues including:

- ◆ Municipal Engineers Group
- ◆ Proposed Ordinance Changes
- ◆ Consideration to Vote on Proposed Amendments to CSFPO
- ◆ CSFPO Certification Extensions, Etc.
- ◆ Flow Charts for Revised Ordinance
- ◆ Dredging Operations
- ◆ Regulatory Minimum Buffer Width
- ◆ IEPA Post Construction BMP Proposal
- ◆ Product Introduction: Restrictor Guard
- ◆ PCBMP Interpretation for Administrators
- ◆ Discussion/Approval: Proposed letter of support for DuPage County's application for funding for a wetland map update from USEPA Region 5, Wetland Program Development Grant
- ◆ DuPage County Stormwater and Flood Plain Ordinance Revision Adoption
- ◆ Fence GC Special Condition and IDNR-OWR Involvement

Provided comments at the MEG on the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Mangers Conference Review Group of the Ordinance update.

The following training sessions were attended:

- ◆ Physical and Biological Goals of the Clean Water Act: What Stormwater Professionals Need to Know
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Discussion Session
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Update

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- ◆ DuPage County Stormwater and Flood Plain Ordinance – General Certification Development
- ◆ E3: Economy, Energy & Environment Initiative
- ◆ Springbrook Creek and Wetland Restoration Project
- ◆ Layman’s Guide to Aquatic Bioassessment and its Application for Management of Aquatic Communities
- ◆ Preliminary Results for Churchill Woods Dam Removal
- ◆ Illinois Environmental Protection Agency (IEPA) Post Construction Best Management Practice (BMP) Proposal

E.3: Long Term O&M Procedures

Goals

The BMP Manual provides guidance on the design and implementation of development practices that prevent storm water quality degradation and enhance the overall quality of storm water. 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.

Currently, the Stormwater Ordinance requires all major and minor storm water 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 maintenance and monitoring plan for the BMPs. The Village will continue to accept storm water management and conveyance easements and wetland conservation easements.

Year 4 Milestones

Continue to enforce the Storm Water Ordinance and accept storm water management and conveyance easements and wetland conservation easements.

Summary of Accomplishments

The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) was previously adopted into Appendix E of the DuPage County Stormwater Management Plan in 2008. No revisions have been made to the BMP Manual since then.

Attended the Municipal Engineers Advisory Group meetings and provided public comment and technical support on several storm water management issues including:

- ◆ Municipal Engineers Group
- ◆ Proposed Ordinance Changes
- ◆ Consideration to Vote on Proposed Amendments to CSFPO

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- ◆ CSFPO Certification Extensions, Etc.
- ◆ Flow Charts for Revised Ordinance
- ◆ Product Introduction: Restrictor Guard
- ◆ Discussion/Approval: Proposed letter of support for DuPage County’s application for funding for a wetland map update from USEPA Region 5, Wetland Program Development Grant
- ◆ DuPage County Stormwater and Flood Plain Ordinance Revision Adoption
- ◆ Fence GC Special Condition and IDNR-OWR Involvement
- ◆ Reduce Runoff: Slow it Down, Spread it Out, Soak it In

Provided comments at the MEG on the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Mangers Conference Review Group of the Ordinance update.

Engineering staff actively participated in the Winfield Creek Stakeholders Group as the County began their Watershed Flood Control Study and Plan.

Two easements were approved during the reporting period, and one subdivision accepted.

E.4: Pre-construction Review of BMP Designs

Goals

The Storm Water Ordinance was revised in February 2006 to reflect changes to the sediment and erosion control provisions. The Stormwater Ordinance also requires that all storm water management facilities be designed with BMPs. Carol Stream has established a policy that BMPs for storm water storage facilities are designed and constructed with wetland shelves and native prairie buffer plantings where practical. Staff reviews the BMP designs during the permit process to ensure conformance with these requirements and policies.

The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) provides guidance on the design and implementation of development practices that prevent storm water quality degradation and enhance the overall quality of storm water. The BMP manual promotes and gives guidelines on the installation of vegetated filter strips, vegetated swales, infiltration systems, permeable pavers, manufactured structures, and storm water detention BMPs such as dry detention basins, wet detention basins, constructed wetland detention basins and underground detention basins.

The Village will aid DuPage County with the adoption of the BMP Manual, perform plan reviews in conformance with the new BMP Manual requirements, adopt new Storm Water Ordinances as they are updated and offer training opportunities to staff.

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Year 4 Milestones

Perform plan reviews in conformance with the new BMP Manual requirements. Carol Stream will offer staff the ability to attend training seminars or workshops where they will be able to review and learn new methods of their evolving fields.

Summary of Accomplishments

The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) was previously adopted into Appendix E of the DuPage County Stormwater Management Plan in 2008. No revisions have been made to the BMP Manual since then.

The Village Board approved a professional engineering contract for review of storm water management permit submittals with pre and post construction BMPs.

Attended the Municipal Engineers Advisory Group meetings and provided public comment and technical support on several storm water management issues including:

- ◆ Municipal Engineers Group
- ◆ Proposed Ordinance Changes
- ◆ Consideration to Vote on Proposed Amendments to CSFPO
- ◆ CSFPO Certification Extensions, Etc.
- ◆ Flow Charts for Revised Ordinance
- ◆ Product Introduction: Restrictor Guard
- ◆ Discussion/Approval: Proposed letter of support for DuPage County's application for funding for a wetland map update from USEPA Region 5, Wetland Program Development Grant
- ◆ DuPage County Stormwater and Flood Plain Ordinance Revision Adoption
- ◆ Fence GC Special Condition and IDNR-OWR Involvement

Provided comments at the MEG on the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Mangers Conference Review Group of the Ordinance update.

The Village accomplished many tasks at Village Board meetings to satisfy our permit obligations for this BMP. The Village Board took action on 13 special use requests, 4 planned unit developments, 8 variances, 4 corridor reviews, 4 annexation agreements, 5 plats of subdivision, 2 grants of stormwater easements, 12 awarded contracts for stormwater services and on these other following items:

- ◆ Village signs an MOU among DRSCW members voluntarily abstaining from the purchase of use of coal tar based sealants
- ◆ DuPage County Natural Hazard Mitigation Plan Update
- ◆ Resolution Approving CH2MHill (OMI) to participate in the Adopt-A-Highway Program

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- ◆ Resolution Declaring Surplus Property to be disposed of by recycling
- ◆ Ordinance Amending Chapter 16 of the Municipal Code of the Village of Carol Stream (Zoning Code)
- ◆ Ordinance Adopting the Revised DuPage County Countywide Stormwater and Flood Plain Ordinance – Stormwater Ordinance
- ◆ Ordinance Adopting the General Certifications (GCs) for Chapter 15 of the Revised DuPage county Countywide Stormwater and Flood Plain Ordinance – Stormwater Ordinance
- ◆ Ordinance Amending Chapter 6; Building Construction and Maintenance Codes, Article 9: Flood Prone Areas and Chapter 6: Building Construction and Maintenance Codes; Article 14: DuPage County Countywide Stormwater and Flood Plain Ordinance and Chapter 7: Subdivision Code, Article 5: Land Movement Regulations and Chapter 7: Subdivision Code, Article 7: Flood Prone Areas and Chapter 7: Subdivision Code, Article 9: Stormwater Detention of the Carol Stream Code of Ordinances
- ◆ Resolution Supporting the Cities for Climate Protection Campaign – Cool Cities

Permit Review - Staff reviewed and issued 1,438 building permits that included 10 for new residential homes, 964 (67%) for residential improvements and 117 (8%) for commercial and industrial building improvements.

Planning & Zoning Administration - Staff prepared 23 separate development cases for consideration by the Plan Commission.

Village staff coordinated with DuPage County and the Carol Stream Park District in the construction of the Armstrong Park Flood Control Reservoir and Siphon Project.

Engineering staff actively participated in the Winfield Creek Watershed Stakeholders Group as the County began their Watershed Flood Control Study and Plan.

Village Staff met or corresponded with several prospective developers including: Wheaton Christian Center, Minnesota Company, Fed Ex, O'Reilly Auto Parts, Caputo's, Windfall Plaza, Jet-Brite, TW Metals, Meyer Material, A. J. Antunes, New Directions Housing, M/I Homes Easton Park, Peacock Engineering, Auto Mechanics Union Local 701, Carol Stream Park District, DuPage County Armstrong Park Flood Control Project, Wheaton College Baseball Field, Packaging Personified, Community Housing Advocacy and Development, Windsor Park Manor, Flood Brothers, Prince Castle, Belmont Village, Home Depot, Corpus Christi Catholic Church, DuPage County Division of Transportation Gary Avenue Improvements, Representative from the company redeveloping the former Mobile Station, Illinois Department of Commerce and Economic Opportunity, Invensys Control, Shell Gas Station, Carol Stream Park District Recreation Center, McDonalds, Carolshire Commons, CB Richard Ellis, IEPA, Michelin Tire representatives, Meineke Auto Service, Cash4Gold, Representatives at 475 Randy, Representatives of a Glendale Heights Company, Fitness business on Commonwealth, Packaging Business at New Holland Property, Burger King Redevelopment, Army Trail Car Wash, Easy Street Car Wash, Park District Armstrong Park Library Bridge, Amcore Bank, Elk Trail Chiropractic, Winfield Creek Watershed Study and Park District Veterans Trail Fire Lane.

Community Development and Engineering met this week with representatives of the company that acquired the property on the southeast corner of Gary/Lies. Potential uses for the property and potential economic development incentives were discussed.

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Engineering staff met with the DuPage County Division of Transportation and their consultant to discuss preliminary plans and permitting for Gary Avenue Improvement Project. The project includes 2.1 mile of pavement improvement from North Avenue to Army Trail Road. Stormwater detention requirements will be met through upsizing of storm sewer pipes. Flood plain compensatory storage will be provided in the pond immediately north of the culvert.

Received, investigated and resolved 22 drainage and storm water issues through the Village's CSR process.

Helped shepherded the DuPage County Armstrong Park Flood Control Reservoir and Siphon Projects through the plan review and approval process by acting as a liaison between them and the Carol Stream Park District and assisting them with resolving ongoing conflicts.

Through the use of an engineering consultant, all storm water permit submittals were reviewed. A total of 10 permits were issued.

The following training sessions were attended:

- ◆ Physical and Biological Goals of the Clean Water Act: What Stormwater Professionals Need to Know
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Discussion Session
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Update
- ◆ DuPage County Stormwater and Flood Plain Ordinance – General Certification Development
- ◆ E3: Economy, Energy & Environment Initiative
- ◆ Springbrook Creek and Wetland Restoration Project
- ◆ Layman's Guide to Aquatic Bioassessment and its Application for Management of Aquatic Communities
- ◆ Preliminary Results for Churchill Woods Dam Removal
- ◆ Illinois Environmental Protection Agency (IEPA) Post Construction Best Management Practice (BMP) Proposal

E.5: Site Inspections During Construction

Goals

Carol Stream inspectors continually inspect sites under construction to ensure sediment and erosion control is maintained throughout the site. Any sediment discharge leaving the site is immediately addressed by staff and may result in a Stop Work Order. The Village will aid DuPage County with the adoption of the BMP Manual, adopt new Storm Water Ordinances as they are updated, continue performing site inspections on all developments that have been issued a storm water permit for soil and erosion control and post construction BMPs and offer staff training opportunities on site inspections of BMPs.

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Year 4 Milestones

Continue performing site inspections on all developments that have been issued a storm water permit for soil and erosion control and post construction BMPs. Continue to offer employees the ability to attend training on site inspections of BMPs.

Summary of Accomplishments

The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) was previously adopted into Appendix E of the DuPage County Stormwater Management Plan in 2008. No revisions have been made to the BMP Manual since then.

The Village accomplished many tasks at Village Board meetings to satisfy our permit obligations for this BMP. The Village Board took action on 13 special use requests, 4 planned unit developments, 8 variances, 4 corridor reviews, 4 annexation agreements, 5 plats of subdivision, 2 grants of stormwater easements, 12 awarded contracts for stormwater services and on these other following items:

- ◆ Village signs an MOU among DRSCW members voluntarily abstaining from the purchase of use of coal tar based sealants
- ◆ DuPage County Natural Hazard Mitigation Plan Update
- ◆ Resolution Approving CH2MHill (OMI) to participate in the Adopt-A-Highway Program
- ◆ Resolution Declaring Surplus Property to be disposed of by recycling
- ◆ Ordinance Amending Chapter 16 of the Municipal Code of the Village of Carol Stream (Zoning Code)
- ◆ Ordinance Adopting the Revised DuPage County Countywide Stormwater and Flood Plain Ordinance – Stormwater Ordinance
- ◆ Ordinance Adopting the General Certifications (GCs) for Chapter 15 of the Revised DuPage county Countywide Stormwater and Flood Plain Ordinance – Stormwater Ordinance
- ◆ Ordinance Amending Chapter 6; Building Construction and Maintenance Codes, Article 9: Flood Prone Areas and Chapter 6: Building Construction and Maintenance Codes; Article 14: DuPage County Countywide Stormwater and Flood Plain Ordinance and Chapter 7: Subdivision Code, Article 5: Land Movement Regulations and Chapter 7: Subdivision Code, Article 7: Flood Prone Areas and Chapter 7: Subdivision Code, Article 9: Stormwater Detention of the Carol Stream Code of Ordinances
- ◆ Resolution Supporting the Cities for Climate Protection Campaign – Cool Cities

Provided comments at the MEG on the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Mangers Conference Review Group of the Ordinance update.

All construction sites were inspected for soil and erosion control in 2012 and logged into a database to track and document inspections.

A stockpile at the County's Armstrong Park Flood Control Reservoir Project was not properly protected from soil erosion. Staff inspected the site and had the County bring the stockpile into compliance.

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The following training sessions were attended:

- ◆ Physical and Biological Goals of the Clean Water Act: What Stormwater Professionals Need to Know
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Discussion Session
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Update
- ◆ DuPage County Stormwater and Flood Plain Ordinance – General Certification Development
- ◆ E3: Economy, Energy & Environment Initiative
- ◆ Springbrook Creek and Wetland Restoration Project
- ◆ Layman’s Guide to Aquatic Bioassessment and its Application for Management of Aquatic Communities
- ◆ Preliminary Results for Churchill Woods Dam Removal
- ◆ Illinois Environmental Protection Agency (IEPA) Post Construction Best Management Practice (BMP) Proposal

E.6: Post Construction Inspections

Goals

Post Construction sites are required to submit as-built drawings and calculations documenting the project constructed in conformance with all the requirements of the original permit. The as-built certification must be signed off before the corresponding storm water management security is released. Engineering Staff and SMA consultants are utilized to ensure the site meets full compliance through inspections and as-built reviews. SMA consultants will also continue inspections to ensure native planting areas and wetland mitigation areas are maintained for up to five years beyond the time of construction completion.

Update the Storm Water Ordinance to include the 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 Village will aid DuPage County with the adoption of the BMP Manual, adopt new Storm Water Ordinances as they are updated, continue performing “punch list” inspections for final acceptance of all sites requiring soil and erosion control measures post construction BMPs, continue reviewing as-built drawings and calculations for permit compliance and offer staff training opportunities on site inspections of BMPs.

Year 4 Milestones

Continue performing “punch list” inspections for final acceptance of all sites requiring soil and erosion control measures post construction BMPs and continue reviewing as-built drawings and calculations for permit compliance. Continue to offer employees the ability to attend training on site inspections.

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Summary of Accomplishments

The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) was previously adopted into Appendix E of the DuPage County Stormwater Management Plan in 2008. No revisions have been made to the BMP Manual since then.

The Village accomplished many tasks at Village Board meetings to satisfy our permit obligations for this BMP. The Village Board took action on 13 special use requests, 4 planned unit developments, 8 variances, 4 corridor reviews, 4 annexation agreements, 5 plats of subdivision, 2 grants of stormwater easements, 12 award of contracts for stormwater services and on these other following items:

- ◆ Village signs an MOU among DRSCW members voluntarily abstaining from the purchase of use of coal tar based sealants
- ◆ DuPage County Natural Hazard Mitigation Plan Update
- ◆ Resolution Approving CH2MHill (OMI) to participate in the Adopt-A-Highway Program
- ◆ Resolution Declaring Surplus Property to be disposed of by recycling
- ◆ Ordinance Amending Chapter 16 of the Municipal Code of the Village of Carol Stream (Zoning Code)
- ◆ Ordinance Adopting the Revised DuPage County Countywide Stormwater and Flood Plain Ordinance – Stormwater Ordinance
- ◆ Ordinance Adopting the General Certifications (GCs) for Chapter 15 of the Revised DuPage county Countywide Stormwater and Flood Plain Ordinance – Stormwater Ordinance
- ◆ Ordinance Amending Chapter 6; Building Construction and Maintenance Codes, Article 9: Flood Prone Areas and Chapter 6: Building Construction and Maintenance Codes; Article 14: DuPage County Countywide Stormwater and Flood Plain Ordinance and Chapter 7: Subdivision Code, Article 5: Land Movement Regulations and Chapter 7: Subdivision Code, Article 7: Flood Prone Areas and Chapter 7: Subdivision Code, Article 9: Stormwater Detention of the Carol Stream Code of Ordinances
- ◆ Resolution Supporting the Cities for Climate Protection Campaign – Cool Cities

Provided comments at the MEG on the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Mangers Conference Review Group of the Ordinance update.

Through the use of an engineering consultant, special management areas (SMAs) and native vegetation was inspected and monitoring plans were reviewed.

Completed the 2012 Pond Evaluation & Maintenance Project in the spring of 2013. Herbicide treatments, herbaceous mowings and cuttings of native prairie pond shorelines and wetlands were performed at sixteen locations and prescribed burns were done at twelve locations. The Village used \$7,000 worth of donated native prairie seed to enhance our pond shorelines.

Completed the final year of a three year project to remediate the naturalized retention basins in the Pasquinelli Central Park subdivision at a cost of \$12,000.

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The Village identified illegal dumping in the Spring Valley/Boa Trail area. A letter was sent to 5 homes requesting they contact the police to report if they observe/witness any dumping in the area.

The Village removed beaver dams from the Lies Road and Gary Avenue bridges thereby reestablishing flow and water levels protecting the stream shorelines. Public Works also cleaned the outfall pipe at our retention pond on the NW corner of Lies Road and Schmale Road. This lowered the water levels preventing the shoreline plants from damage due to inundation.

The following training sessions were attended:

- ◆ Physical and Biological Goals of the Clean Water Act: What Stormwater Professionals Need to Know
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Discussion Session
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Update
- ◆ DuPage County Stormwater and Flood Plain Ordinance – General Certification Development
- ◆ E3: Economy, Energy & Environment Initiative
- ◆ Springbrook Creek and Wetland Restoration Project
- ◆ Layman’s Guide to Aquatic Bioassessment and its Application for Management of Aquatic Communities
- ◆ Preliminary Results for Churchill Woods Dam Removal
- ◆ Illinois Environmental Protection Agency (IEPA) Post Construction Best Management Practice (BMP) Proposal

Village Staff regularly attends the DRSCW meetings to discuss and address TMDL issues. Staff participates with other Municipal Engineers, Public Works Directors, POTWs, IEPA and various environmental groups. The DRSCW accomplished the following:

- ◆ Bioassessment sampling
- ◆ Data analysis
- ◆ Assessment reports
- ◆ Continued with legislation to fund Stormwater quality improvement projects through IEPA NPDES fees.
- ◆ Served on the project committee where an alternative approach to EPA’s proposed ineffective phosphorus limits on publicly owned treatment works (POTWs) was prepared. This alternative approach would implement far less costly stream habitat restoration projects with a far greater probability of success.
- ◆ Participated in further topographic screenings that assessed candidates for potential stream habitat restoration projects.
- ◆ Conducted the Fawell Dam Fish Passage Study to identify various modifications to improve fish passage upstream.
- ◆ Presented results of the Churchill Woods Dam Removal Project which realized improvements in stream habitat and fish species.
- ◆ Submitted review comments on the Association of Illinois Soil and Water Conservation District’s Post Development Stormwater Runoff Performance Standards.

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The Village completed an enforcement action on Belmont Village's unmaintained ditch by overseeing the work ourselves. Our stream maintenance contractor was hired to restore the ditch.

The Village worked with Lowe's to properly establish a native prairie/wetland buffer around their retention basins.

POLLUTION PREVENTION/GOOD HOUSEKEEPING

F.1: Employee Training Program

Goals

The permit requires employee training on good housekeeping and pollution prevention procedures to prevent and reduce pollutant discharges into storm water from maintenance and operation activities of open spaces, buildings, and storm water systems as well as storage yards, snow disposal, new construction and land disturbances. 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. Carol Stream staff at 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.

The Municipal Engineers Advisory Group meetings will continue to hold discussions and offer training opportunities related to pollution prevention and good housekeeping practices. The Municipal Engineers Advisory Group will have discussions on the most appropriate methods for training employees at municipal facilities in areas of good housekeeping and pollution prevention procedures to prevent and reduce pollutant discharges into storm water from maintenance and operation activities of open spaces, buildings, construction and land disturbances, waste disposal and storm water systems. Topics discussed at the meetings will be shared with the Department of Public Works and Administration.

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. However, the Department of Public Works and Engineering staff received various training on topics such as street sweeping operations, good housekeeping measures, de-icing and anti-icing programs, storm sewer system design, detention basin design, storm water management funding, bridge inspection, storm water management facility design and proprietary BMPs.

The Municipal Engineers Advisory 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

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their needs. The pollution prevention discussions will be shared with Public Works and other maintenance staff for collaborative efforts with the on-going pollution prevention training of County staff.

The Village will provide training sessions for Public Works employees on pre-wetting and anti-icing methods to reduce salt usage and train Public Works and Administration maintenance staff on good housekeeping pollution prevention.

Year 4 Milestones

Attend a second pollution prevention employee training session, targeting those that were unable to attend the previous session and new hires. Viewing a power point presentation of the training session is an option to attending the seminar. 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.

Summary of Accomplishments

Public Works and/or Community Development were offered the following training sessions:

- ◆ Chicago's 2013 Soaring to New Heights Conference
- ◆ E3 Program – Economy, Energy, and Environment
- ◆ Gross Solids Workshop
- ◆ Excal's Rain Check Training Program
- ◆ Public Roads Deicing Workshop
- ◆ Parking Lot & Sidewalk Deicing Workshop
- ◆ Tree Ordinance Webinar

The following training sessions were attended:

- ◆ DuPage County Stormwater and Flood Plain Ordinance – Discussion Session (2 employees)
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Update
- ◆ DuPage County Stormwater and Flood Plain Ordinance – General Certification Development
- ◆ LPC-663, Uncontaminated Soil Certification
- ◆ NFIP Elevation Certification
- ◆ National Hazard Mitigation Webinar (3 employees)
- ◆ Ammonia Mass Balance Update – Lower East Branch DuPage River
- ◆ Preliminary Chloride Results for the West Branch Basin 2012
- ◆ Public Roads Deicing Workshop (3employees)
- ◆ Polycyclic Aromatic Hydrocarbons (PAHs) in Coal Tar Sealants – Minnesota Pollution Control Agency (MPCA)
- ◆ Nutrient Removal Upgrade Costs at Publically Owned Treatment Works (POTWs)

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- ◆ Illinois Department of Natural Resources (IDNR) Fish Stocking Efforts in the West & East Branches of the DuPage River
- ◆ Liquids – A Success Story
- ◆ Illinois Environmental Protection Agency (IEPA) – Stage 2 Total Maximum Daily Load (TMDL) Development of Septic System Map for Targeted Sub-Basin Project
- ◆ Development of Ammonia Mass Balance Techniques: Web Based Load Duration Curve System
- ◆ DuPage County Stormwater Ordinance – Enforcement of Illinois Department of Natural Resources Office of Water Resources (IDNR-OWR) Part 3708 Rules
- ◆ DuPage County Stormwater Ordinance – Fence General Condition and Illinois Department of Natural Resources Office of Water Resources (IDNR-OWR) Involvement
- ◆ Vactor operations and maintenance (21 employees)
- ◆ Salt spreader operation and calibration (14 employees)
- ◆ Underground storage tank Operator Training – Class C (3 employees)
- ◆ Underground storage tank Operator Training – Class A/B
- ◆ SCADA operations (10 employees)
- ◆ Conservation Foundation: It Takes a Community...(6 employees)
- ◆ Inflow and Infiltration seminar
- ◆ Public Roads De-icing Workshop
- ◆ GHS/Hazard Communication – Train the Trainer (2 employees)

Village Staff is an active member of the DuPage River/Salt Creek Workgroup (DRSCW) which meets regularly and has performed the following educational activities:

- ◆ Speaking engagements and presentations included:
 - Ambient chloride monitoring
 - Dissolved oxygen monitoring
 - Bioassessment sampling
 - Data analysis
 - Assessment reports
 - Continued with legislation to fund Stormwater quality improvement projects through IEPA NPDES fees.
 - Served on the project committee where an alternative approach to EPA's proposed ineffective phosphorus limits on publicly owned treatment works (POTWs) was prepared. This alternative approach would implement far less costly stream habitat restoration projects with a far greater probability of success.
 - Participated in further topographic screenings that assessed candidates for potential stream habitat restoration projects.
 - Conducted the Fawell Dam Fish Passage Study to identify various modifications to improve fish passage upstream.
 - Presented results of the Churchill Woods Dam Removal Project which realized improvements in stream habitat and fish species.
 - Submitted review comments on the Association of Illinois Soil and Water Conservation District's Post Development Stormwater Runoff Performance Standards.

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- E3 Program – Economy, Energy, and Environment Initiative
- Polycyclic Aromatic Hydrocarbons (PAHs) in Coal Tar Sealants – Minnesota Pollution Control Agency (MPCA)
- Springbrook Creek and Wetland Restoration Project
- Ammonia Mass Balance Update – Lower East Branch DuPage River
- Preliminary Chloride Results for the West Branch Basin 2012
- Chlorides in Streams – Arlington Heights Public Works Workshop
- TMDLs & Adaptive Management at USEPA Region 5 TMDL Practitioners Workshop
- Layman’s Guide to Aquatic Bioassessment and its Application for Management of Aquatic Communities
- Nutrient Removal Upgrade Costs at POTWs
- Elgin O’Hare Expressway Expansion Chloride Offset Program
- Optimal Buffer Width for improving mIBI Scores – Municipal Engineers Advisor Group for DM&MC
- What’s Going on in Our Waterways? – Village of Lisle
- Chloride Usage Education and Reduction Program Public Roads Workshop
- Chloride Usage Education and Reduction Program Parking Lot and Sidewalk Workshop
- ◆ The web site was updated with new reports and educational materials.
- ◆ A DRSCW Newsletter was produced and sent to all MS4 communities.
- ◆ Village Staff has participated on a DRSCW subcommittee for the Chloride Usage Education & Reduction Study. The Village Engineer chaired this subcommittee in implementing chloride reducing strategies through monitoring and education.
- ◆ The Village Engineer was a participant on the DRSCW Projects Committee.

F.2: Inspection & Maintenance Program

Goals

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. Public Works has developed an inspection and maintenance program for routine catch basin cleaning and vacuum street sweeping.

The Public Works Department currently inspects and maintains the MS4 systems on an as needed complaint basis, which is tracked through our citizen service request (CSR) database. Public Works has implemented a routine preventive maintenance program for long-term maintenance of catch basins. They also have a street sweeping program. Carol Stream catch basins are cleaned approximately once every ten years. Its roadways are swept approximately nine times per year and the Village owns two vacuum sweepers. Carol Stream maintains approximately one hundred and seven miles of roadway. In addition, Carol Stream has a wastewater treatment plants which treats the Village’s sewage and the remnants of sludge from the sewage. The Water Reclamation Center located on Kuhn Road has a capacity of 6.5 MGD (million gallons per day).

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Carol Stream has 77 biodiesel and 22 E85 vehicles in its fleet. Carol Stream has incorporated environmental enhancements when reconstructing and improving roadways as evidenced by the wetland/native prairie swale used for detention and conveyance on the Fair Oaks Road Improvement Project.

Carol Stream is currently employing both pre-wetting and anti-icing measures in its annual Snow Removal Plan. Pre-wetting salt and using an anti-icing mixture 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. The salt used for deicing is kept in a salt dome and the areas surrounding the salt storage are routinely kept clean.

Engineering has developed and implemented a Wetland & Pond Shoreline Monitoring & Management Program after performing a \$1.5M Pond & Stream Bank Rehabilitation Project on nine wetlands, ponds and stream banks. Stabilizing these areas 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, willow stakes, constructed wetlands and native prairie buffers. This Program monitors the condition of the restored and stabilized pond shorelines, mitigated and constructed wetlands, stream banks and native prairie buffers. An annual maintenance plan is formulated every three years where projects are identified, prioritized and scheduled for appropriate management strategies. These management strategies include prescribed burns, selective cutting, mowing, trash removal, herbicide application, weeding, reseeding and replanting. Maintaining these valuable areas by removing invasive vegetation, trash blockages and other debris will allow the waters from the wetlands, ponds and streams to flow less polluted and without obstructions downstream. Stream bank stabilization projects are additionally funded through the Water Quality Improvement Grant Program.

The Village will develop maintenance procedures that incorporate pollution control measures, continue the Catch Basin Cleaning, Inspection and Assessment Program, continue the Street Sweeping Program using vacuum sweepers, continue the Wetland & Pond Shoreline Monitoring & Management Program, continue the Sanitary Sewer Inspection Program using digital televising methods, continue the Sanitary Sewer Manhole Sealing Program and discontinue the use of fertilizers containing phosphates on Village maintained right of ways and utilize organic options when fertilization is required.

Carol Stream has a Citizen Service Request (CSR) process where individual can file complaints or seek staff assistance on drainage and other storm water issues. As CSRs are received they are assigned to an employee, investigated and responded to the citizen. Sometimes enforcement action is necessary. The Village also has a database to track the status of the CSR.

The Village will continue handling all complaints and requests through the Village's CSR process, hold public meetings where they can view plans and comment on storm water issues and offer meetings where development or the public can comment on storm water concerns.

Year 4 Milestones

Continue the Catch Basin Cleaning, Inspection and Assessment Program, the Street Sweeping Program, the Wetland & Pond Shoreline Monitoring & Management Program, Sanitary Sewer Inspection Program and Sanitary Sewer Manhole Sealing Program. Discontinue the use of fertilizers containing phosphates and utilize organic options when fertilization is necessary.

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Summary of Accomplishments

The following maintenance operations were performed:

- ◆ Continued with the Sanitary Sewer System Evaluation Study by completing inflow and infiltration (I&I) analysis in two basins identifying sources and developing a plan for repair and/or replacement of failed sections of infrastructures. Activities included:
 - Smoke-testing of sanitary sewer main in Basin #39, to identify locations of potential I&I, was completed
 - Cleaning and televising of Basin #39, to identify specific locations of I&I and any infrastructure failures, was completed
 - Inspection of all sanitary sewer manholes in Basin #24 was completed
 - Smoke-testing of sanitary sewer main in Basin #24, to identify locations of potential I&I, was completed
- ◆ Assisted the Wheaton Sanitary District in the preparation of plans for their Northside Interceptor Project where five miles of failing and deteriorated trunk sanitary sewers will be replaced.
- ◆ Village-wide contracted street sweeping was conducted eight times during period, covering all Village-owned streets. Spot sweeping and emergency sweeping were conducted with an in-house sweeper. Total debris collected exceeded 500 cubic yards.
- ◆ Performed over 2,600 Public Works man-hours on storm water management.
- ◆ Expended approximately \$281,000 (unaudited) on storm water maintenance and repair (non-capital).
- ◆ The Village maintains over 7,000 parkway trees that help infiltrate and absorb storm water runoff. During the period the Village removed approximately 1,000 EAB-infested parkway trees and planted 275 replacement trees. (The Village expects to remove an additional 1,000 trees in subsequent period but has developed plan and reserved finances to plant 2,400 new trees by Fall 2014).
- ◆ Expended in excess of \$80,000 in emergency tree trimming and removal services due to storm in July 2012.
- ◆ For first time contracted out for scheduled tree trimming services. Zone 5 was trimmed at a cost of approximately \$35,000 to trim nearly 900 parkway trees. The Village also secured guaranteed pricing from the contractor and offered the trimming and removal services to residents in the area where parkway work was being performed.
- ◆ Performed cleaning via combination vacator/flusher on major pipe and outlet of 30” storm sewer back in rear of Home Depot property on Schmale Road
- ◆ As part of Village Board Continued use of brine and GEOMELT to reduce usage of road salt, applying over 49,000 gallons on local roads throughout the season.
- ◆ Expanded the public property mowing and weed control program that saw an increase in the frequency of liter removal, mowing, spraying of invasive noxious weeds and mulch application along these properties.
- ◆ The Village removed beaver dams from the Lies Road and Gary Avenue bridges thereby reestablishing flow and water levels protecting the stream shorelines. Public Works also cleaned the outfall pipe at our retention pond on the NW corner of Lies Road and Schmale Road. This lowered the water levels preventing the shoreline plants from damage due to inundation.
- ◆ Completed the final year of a three year project to remediate the naturalized retention basins in the Pasquinelli Central Park subdivision at a cost of \$12,000.
- ◆ Public Works and the Carol Stream Park District treated the Day Lily Park pond to combat algae growth.
- ◆ Village staff was active participants in the design of DuPage County’s Armstrong Park Flood Control Reservoir and Siphon Projects.

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- ◆ Engineering staff met assisted the DuPage County Division of Transportation and their consultant in the design and permitting for their Gary Avenue Improvement Project. The project includes 2.1 mile of pavement improvement from North Avenue to Army Trail Road. Stormwater detention requirements will be met through upsizing of storm sewer pipes. Flood plain compensatory storage will be provided in the pond immediately north of the culvert.
- ◆ Engineering staff participated in DuPage County’s Winfield Creek Watershed Study and Flood Control Plan through the Stakeholders Group and County staff.
- ◆ Completed the \$9,275 Klein Creek and Thunderbird Creek Debris and Obstruction Removal Project removing 296 flow obstructions from 112 locations along 25,000 feet of stream banks.
- ◆ Completed the required IDOT bridge inspections monitoring significant deterioration of the Illini Drive bridge.
- ◆ Provided engineering oversight to the Armstrong Park Bridge Study that identified rehabilitation and replacement alternatives.
- ◆ Continued flood prevention and disaster preparedness efforts by:
 - Providing information, maps and data requested by the Emergency operations center (EOC)
 - Creating, printing and laminating EOC address maps
 - Participating in the DuPage County Natural Hazard Mitigation Plan (NHMP) webinar
 - Providing review comments on the revised NHMP
 - Completing the NHMP survey
 - Amending and adopting the Emergency Operations Plan
 - Performing substantial damage determinations.
- ◆ Oversaw 70 volunteers participating in the 2012 Pond & Stream Sweep. They represented 3 businesses and 4 families removing 1,020 pounds of trash from Klein Creek and 7 ponds covering 5.2 miles of shorelines.
- ◆ Participated in the update of the DuPage County Storm Water Ordinance through the Municipal Engineers Group and DuPage Mayors & Managers Conference Review Group meetings and provided comments to proposed language changes.
- ◆ Engineering was actively engaged in the DuPage River Salt Creek Workgroup (DRSCW) serving on the Chloride Reduction and Education Committee and the Project Committee.
- ◆ The Chloride Reduction and Education Committee continued its program of monitoring chloride levels in all three watersheds, conducted two Chloride Reduction Workshops, made available an Application Guidance document for parking lot and sidewalk deicing applications, gathered data on deicing program practices through questionnaires and published an educational Chloride Newsletter.
- ◆ Required the use of weed pulling and a thick mulch bed in lieu of herbicides in landscaping contracts. Fertilization is not included in the contract and promoted water conservation.
- ◆ Required the use of “green” products in our janitorial contract.

Completed enforcement action on Belmont Village’s unmaintained ditch through contracting Carol Stream’s Stream Maintenance Contractor and overseeing the work ourselves

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Projects undertaken to replace, improve and rehabilitate the Village's storm water management and related infrastructure include:

- ◆ Continued efforts between Engineering and Public Works to identify sources of inflow and infiltration
 - Smoke-testing of sanitary sewer main in Basin #39, to identify locations of potential I&I, was completed
 - Cleaning and televising of Basin #39, to identify specific locations of I&I and any infrastructure failures, was completed
 - Inspection of all sanitary sewer manholes in Basin #24 was completed
 - Smoke-testing of sanitary sewer main in Basin #24, to identify locations of potential I&I, was completed
- ◆ Major rehabilitation and replacement projects at the Water Reclamation Center:
 - Complete removal and rehabilitation of a primary screw pump
 - Invested \$750,000 to fund a project for repair, replacement and rehabilitation of several components of the headworks process, including: replacement of bridge, aerator, rotary drum screen bearings and rollers, sprockets and chains and grit classifier; repair or replacement of various failing HVAC components; application of new paint and epoxy coating on building interior; overhead door replacement and miscellaneous structural repairs; and improvement to SCADA and generator capabilities.
 - Emergency power generation was expanded to include all plant facilities and buildings
 - A security system is now in place to allow gate operation 24 hours per day
 - Installed effluent chlorine residual analyzer
- ◆ Administered the Klein Creek Flood Plain Structure Phase II Buyout Project overseeing the purchase of the fourth flood prone structure all in accordance with Federal Emergency Management Agency (FEMA), State and DuPage County regulations.
- ◆ Completed the 2012 Pond Evaluation & Maintenance Project in the spring of 2013. Herbicide treatments, herbaceous mowings and cuttings of native prairie pond shorelines and wetlands were performed at sixteen locations and prescribed burns were done at twelve locations. The Village used \$7,000 worth of donated native prairie seed to enhance our pond shorelines.
- ◆ Completed the final year of a three year project to remediate the naturalized retention basins in the Pasquinelli Central Park subdivision at a cost of \$12,000.

The Village investigated several storm water management facilities including:

- ◆ FICA America
- ◆ Lies Road Bridge Flow Obstruction
- ◆ Old Gary Avenue Bridge Flow Obstruction
- ◆ Northwest Corner Lies – Gary Retention Pond Inlet Restriction
- ◆ Southeast Corner Lies – Gary Inlet Blockage
- ◆ Mona Kea Commercial Development
- ◆ Home Depot and Chase Bank Overland Flow Route and Stream Discharge

The following Geographic Information System (GIS) Implementation Project tasks were completed:

- ◆ Updated all existing maps with the latest DuPage County GIS layers, feature classes and geodatabases including assessment parcel data.
- ◆ Created and published the following maps:
 - Administration Multi-Family Recycling Map

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- Community Development Property Inspection Maps
- Community Development Property Management Contact Information Map
- Engineering 2012 CIP Map
- Engineering Creek Flow Obstruction Maintenance Project Map
- Engineering Pond & Stream Sweep Maps
- Engineering WRC Crusher Map
- Public Works Storm Sewer Map
- Public Works Sanitary Sewer Map
- Public Works Storm Branch Removal Map
- Public Works WRC Storm Sewer Map
- ◆ The Village collected 116 utility (water, sanitary sewer and storm sewer) coordinates in 2011 utilizing GPS technologies. In total the Village has collected 10,465 GPS coordinates of utility structures over the last several years. This accounts for over 95% of all storm sewer structures, both public and private, in the Village.

Village Staff participated with the DuPage River/Salt Creek Workgroup (DRSCW) on the following inspection and maintenance related activities:

- ◆ Educational opportunities included:
 - Optimal Buffer Width for improving mIBI Scores – Municipal Engineers Advisor Group for DM&MC
 - What’s Going on in Our Waterways? – Village of Lisle
 - Chloride Usage Education and Reduction Program Public Roads Workshop
 - Chloride Usage Education and Reduction Program Parking Lot and Sidewalk Workshop
 - E3 Program – Economy, Energy, and Environment Initiative
 - Polycyclic Aromatic Hydrocarbons (PAHs) in Coal Tar Sealants – Minnesota Pollution Control Agency (MPCA)
 - Springbrook Creek and Wetland Restoration Project
 - Ammonia Mass Balance Update – Lower East Branch DuPage River
 - Preliminary Chloride Results for the West Branch Basin 2012
 - Chlorides in Streams – Arlington Heights Public Works Workshop
 - TMDLs & Adaptive Management at USEPA Region 5 TMDL Practitioners Workshop
 - Layman’s Guide to Aquatic Bioassessment and its Application for Management of Aquatic Communities
 - Nutrient Removal Upgrade Costs at POTWs
- ◆ Speaking engagements and presentations included:
- ◆ The web site was updated with new reports and educational materials.
- ◆ A DRSCW Newsletter was produced and sent to all MS4 communities.
- ◆ Monitoring efforts included:
 - Ambient chloride monitoring
 - Dissolved oxygen monitoring

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- Bioassessment sampling
- Data analysis
- Assessment reports
- ◆ While serving as Chair on the DRSCW Chloride Reduction Committee we accomplished the following tasks:
 - Provided educational opportunities which included: Chloride Usage Education and Reduction Program Report, Public Agency Chloride Reduction Workshop, Parking Lot and Sidewalk Workshop.
 - Conducted a survey of public agencies to monitor changes in pre-wetting, de-icing, anti-icing, storage and non-chloride alternative practices.
 - Made available a fact sheet summarizing alternative de-icing products, a Parking Lot Salt Application Rate Guidance to assist and educate private contractors on how to reduce salt usage, save money and protect the environment and a Chloride Fact Sheet.
 - The web site was updated with new reports and educational materials.
 - Continued ambient chloride monitoring.
 - Performed data analysis and assessments.
 - Prepared and published an annual report.
 - Developed an Elgin O'Hare Expressway Expansion Chloride Offset Program
- ◆ The Village Engineer was a participant on the DRSCW Projects Committee. This committee is in the process of implementing an Integrated Priority System (IPS) that will be used to identify, prioritize and recommend various water quality improvement projects by objective criteria.
- ◆ Served on the Projects Committee where an alternative approach to EPA's proposed ineffective phosphorus limits on publicly owned treatment works (POTWs) was prepared. This alternative approach would implement far less costly stream habitat restoration projects with a far greater probability of success.
- ◆ Continued with legislation to fund Stormwater quality improvement projects through IEPA NPDES fees.
- ◆ Participated in the DRSCW Projects Committee Stream Topographic Survey.
- ◆ Prepared a memorandum of understanding for municipalities to adopt whereby they agree not to utilize coal tar sealants containing polycyclic aromatic hydrocarbons (PAHs).
- ◆ Continued efforts to fund Stormwater quality improvement projects through IEPA NPDES fees.
- ◆ Continued working with the IEPA on their Fecal Coliform TMDL Septic Field Mapping Study.
- ◆ Conducted the Fawell Dam Fish Passage Study to identify various modifications to improve fish passage upstream.
- ◆ Presented results of the Churchill Woods Dam Removal Project which realized improvements in stream habitat and fish species.

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F.4: Municipal Operations & Waste Disposal

Goals

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. Public Works properly disposes all wastes collected from storm sewers, streets, ponds and streams. In addition, Carol Stream has a streets 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. Carol Stream regularly recycles used oil, oil filters, batteries and tires and has the remains of the dead animals found on Village roadways properly disposed.

Carol Stream advertises different yearly hazardous waste collection events held by DuPage County and 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. We distribute the County's Recycling Resource Guide, and provide information about other resources and companies that recycle or take hazardous waste.

Year 4 Milestones

Continue the recycling of used oil, oil filters, batteries and tires. Carol Stream will submit record keeping of pollution prevention and good housekeeping activities for annual reporting.

Summary of Accomplishments

The following accomplishments were achieved:

- ◆ Developed a spoil management, recording and reporting system on-site at the Public Works Facility to properly handle, test and dispose of spoil and debris.
- ◆ Trained all employees to follow new system.
- ◆ The Adopt-A-Highway program utilized volunteers from six (6) community organizations to perform twenty-two (22) cleanings removing trash from twenty-two (22) miles of roadways.
- ◆ Operated five aerators providing oxygen to four ponds.
- ◆ Performed over 2,600 Public Works man-hours on storm water management.
- ◆ All road salt stored under roof in salt dome and surrounding area regularly swept clean.
- ◆ Reported just one (1) SSO that affected two homeowners and conducted appropriate cleaning and follow up in subsequent days.
- ◆ Carol Stream operates 35 bio-diesel and 30 E-85 vehicles in fleet.
- ◆ Village recycled the following quantities of waste:
 - Aluminum 2,453 Pounds
 - Electronics 1 Skid

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- Scrap metal 41,760 Pounds
- Stainless steel 870 Pounds
- Steel 10,380 Pounds
- Tires 212 Tires
- Batteries 3 Batteries
- ◆ The Village owns a wastewater treatment plant on Kuhn Road with a plant capacity of 6.5 MGD and treated over 2.0 billion gallons.
- ◆ Continued efforts between Engineering and Public Works to identify sources of inflow and infiltration
 - Smoke-testing of sanitary sewer main in Basin #39, to identify locations of potential I&I, was completed
 - Cleaning and televising of Basin #39, to identify specific locations of I&I and any infrastructure failures, was completed
 - Inspection of all sanitary sewer manholes in Basin #24 was completed
 - Smoke-testing of sanitary sewer main in Basin #24, to identify locations of potential I&I, was completed

The Village promotes local and regional recycling through handouts, press releases, Environmental Portal website, Correspondent, Happenings, electronic bulletin board, DuPage County's Recycling Resource Guide, marquee sign, cable access channel, etc. Village homeowners diverted more than 7 million pounds of recycling commodities and when combined with yard waste and white good appliances, the residential sector diverted 46% of the solid waste collected in 2012.

The Village in partnership with the Carol Stream Rotary Club conducted its 4th Annual Earth Day Community Recycling Event where 1,000 pounds of e-waste, 85 pounds of used clothing and athletic shoes, 11 used bikes and several mobility assistive devices were collected, all for recycling.

The Village's Rx Box Program collected 1,475 lbs. of drugs and medical supplies.

A total of 4,459 lbs. of holiday lights were collected for recycling yielding 533 lbs. of industry-grade copper. The entire proceeds were donated to the Village's Christmas Sharing Program.

The Village held its annual Pond & Stream Sweep where 70 volunteer removed 1,020 lbs. of trash and debris from 5.2 miles of shorelines along ponds and stream sections.

The Village in conjunction with the DuPage Water Commission conducted a water conservation education program for its 10, 936 customers titled Every Drop Counts. An outreach was initiated at the Eco-Festival hosted by the Carol Stream Park District. In addition the Village disseminated timely water conservation information to multi-family residents through the organized Apartment Managers Group.

Adopted a memorandum of understanding whereby the Village agreed not to utilize coal tar sealants containing polycyclic aromatic hydrocarbons (PAHs).

***F.5: Flood Management/Assess Guidelines
Stormwater & Flood Plain Ordinance Updates***

Goals

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 Storm Water 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 Storm Water 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 storm water management activities within DuPage County; and requires regular, planned maintenance of storm water management facilities.

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

The Village will continue to adopt any revisions to the DuPage County Countywide Storm Water and Flood Plain Ordinance.

Year 4 Milestones

Adopt any revisions to the DuPage County Countywide Storm Water and Flood Plain Ordinance.

Summary of Accomplishments

The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) was previously adopted into Appendix E of the DuPage County Stormwater Management Plan in 2008. No revisions have been made to the DuPage County Water Quality Best Management Practices Technical Manual since then.

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Village Staff regularly attended and provided input at Municipal Engineers Group meetings on the following topics:

- ◆ Update of the DuPage County Countywide Stormwater Management and Flood Plain Ordinance (SMFPO) discussing numerous topics
- ◆ NPDES Annual Report
- ◆ Sustainable Design Challenge
- ◆ Ordinance Enforcement
- ◆ Impervious Surface Definition & Interpretation
- ◆ Wetland Map Funding
- ◆ General Certifications
- ◆ Stormwater Performance Recommendations Meeting & Illinois EPA's Rural NPS Workshop
- ◆ Chloride Reduction Update
- ◆ Municipal Engineers Group
- ◆ Proposed Ordinance Changes
- ◆ Consideration to Vote on Proposed Amendments to SMFPO
- ◆ SMFPO Certification Extensions
- ◆ Flow Charts for Revised Ordinance
- ◆ Product Introduction: Restrictor Guard
- ◆ DuPage County Stormwater and Flood Plain Ordinance Revision Adoption
- ◆ Fence GC Special Condition and IDNR-OWR Involvement
- ◆ Dredging Operations
- ◆ Regulatory Minimum Buffer Width
- ◆ IEPA Post Construction BMP Proposal
- ◆ PCBMP Interpretation for Administrators
- ◆ Status of Flood Plain Mapping
- ◆ Salt Storage Permits
- ◆ Enforcement of IDNR-OWR Part 3708 Rules (15.80-E)
- ◆ Roadway Depths

Participated in formulating revisions to the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant in the Municipal Engineers Group and the DuPage Mayors & Managers Conference Review Group where all the General Certifications were prepared.

Adopted the revised Stormwater Ordinance and began implementation.

The following training sessions were attended:

- ◆ DuPage County Stormwater and Flood Plain Ordinance – Discussion Session (2 employees)
- ◆ DuPage County Stormwater and Flood Plain Ordinance – Update

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- ◆ DuPage County Stormwater and Flood Plain Ordinance – General Certification Development
- ◆ NFIP Elevation Certification
- ◆ National Hazard Mitigation Webinar (3 employees)
- ◆ DuPage County Stormwater Ordinance – Enforcement of Illinois Department of Natural Resources Office of Water Resources (IDNR-OWR) Part 3708 Rules
- ◆ DuPage County Stormwater Ordinance – Fence General Condition and Illinois Department of Natural Resources Office of Water Resources (IDNR-OWR) Involvement
- ◆ GHS/Hazard Communication – Train the Trainer (2 employees)

Some flood plain management, disaster preparedness and response initiatives taken in 2012 included:

- ◆ Continued flood prevention and disaster preparedness efforts by:
 - Providing information, maps and data requested by the Emergency operations center (EOC)
 - Creating, printing and laminating EOC address maps
 - Participating in the DuPage County Natural Hazard Mitigation Plan (NHMP) webinar
 - Providing review comments on the revised NHMP
 - Completing the NHMP survey
 - Amending and adopting the Emergency Operations Plan
 - Performing substantial damage determinations after the 2013 flood
- ◆ Administered the Klein Creek Flood Plain Structure Phase II Buyout Project overseeing the purchase of the fourth flood prone structure all in accordance with Federal Emergency Management Agency (FEMA), State and DuPage County regulations.
- ◆ Participated in DuPage County’s Klein Creek Reservoir Flood Control Project monthly meetings. Continued providing information and input on the planning, design, scheduling and construction of the Project.
- ◆ The Village removed beaver dams from the Lies Road and Gary Avenue bridges thereby reestablishing flow and water levels protecting the stream shorelines. Public Works also cleaned the outfall pipe at our retention pond on the NW corner of Lies Road and Schmale Road. This lowered the water levels preventing the shoreline plants from damage due to inundation.
- ◆ Village staff was active participants in the design of DuPage County’s Armstrong Park Flood Control Reservoir and Siphon Projects.
- ◆ Engineering staff met assisted the DuPage County Division of Transportation and their consultant in the design and permitting for their Gary Avenue Improvement Project. The project includes 2.1 mile of pavement improvement from North Avenue to Army Trail Road. Stormwater detention requirements will be met through upsizing of storm sewer pipes. Flood plain compensatory storage will be provided in the pond immediately north of the culvert.
- ◆ Engineering staff participated in DuPage County’s Winfield Creek Watershed Study and Flood Control Plan through the Stakeholders Group and County staff.
- ◆ Completed the \$9,275 Klein Creek and Thunderbird Creek Debris and Obstruction Removal Project removing 296 flow obstructions from 112 locations along 25,000 feet of stream banks.
- ◆ The Village passed an Illinois Department of Natural Resources Office of Water Resources (IDNR-OWR) audit for compliance with state and federal flood plain regulations.

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- ◆ Assisted a homeowner in the preparation of a flood plain elevation certificate.
- ◆ Assisted ComEd in the removal of tree trimming debris left along the creeks after emergency repairs were made.

The following Geographic Information System (GIS) Implementation Project tasks were completed:

- ◆ Updated all existing maps with the latest DuPage County GIS layers, feature classes and geodatabases including assessment parcel data.
- ◆ Created and published the following maps:
 - Engineering Creek Flow Obstruction Maintenance Project Map
 - Engineering Pond & Stream Sweep Maps
 - Public Works Storm Sewer Map
 - Public Works Storm Branch Removal Map
 - Public Works WRC Storm Sewer Map
- ◆ The Village collected 116 utility (water, sanitary sewer and storm sewer) coordinates in 2011 utilizing GPS technologies. In total the Village has collected 10,465 GPS coordinates of utility structures over the last several years. This accounts for over 95% of all storm sewer structures, both public and private, in the Village.

FIRM Updates

Goals

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. As DuPage County and FEMA corrects, updates and adopts the DFIRM maps Carol Stream will begin utilizing them.

Year 4 Milestones

The Village will begin utilizing the corrected and updated DFIRM maps once they have been approved and adopted by FEMA and DuPage County.

Summary of Accomplishments

FEMA has not approved or updated the DFIRM maps requiring corrections nor have they made them available to the public. FEMA in cooperation with DuPage County and the Illinois State Water Survey (ISWS) has begun performing modeling studies to update the maps in DuPage County. Although the West Branch and all the tributaries in Carol Stream were not to be studied or the maps updated, they were revised.

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The Village reviewed the revised maps and provided comments to all three agencies. In addition Village staff is actively involved in the DuPage Mayors and Managers Conference Review Group that has been monitoring, reviewing and commenting on the process.

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See DuPage County's Annual Report and the DuPage River Salt Creek Workgroup's web site for the data that was collected and analyzed, including monitoring data.

As stated in our NOI the following are activities that the Village of Carol Stream will undertake during year five of the second permit cycle:

PUBLIC EDUCATION & OUTREACH

A.1: Distribution of Paper Material

Continue with the publication and distribution of available paper materials.

A.2: Speaking Engagement

Continue to provide homeowners associations and other groups with information about storm water issues, values, procedures, maintenance efforts and solutions to better educate them and equip them to play a role. Encourage Staff to seek opportunities and participation in speaking engagements.

A.3: Public Service Announcement

Continue with the preparation and release of storm water quality related articles to local news papers.

A.4: Community Event

Continue conducting the yearly Pond & Stream Sweep and provide informational material on storm water quality related topics to all volunteers.

A.6: Other Public Education

Continue updating the Village's environmental web page as new and better information becomes available.

PUBLIC INFORMATION/INVOLVEMENT

B.3: Stakeholder Meeting

Continue participation in the DRSCW, Municipal Engineers Advisory Group and the Storm Water Quality Stakeholders' Committee meetings. Continue financial support of the DRSCW.

B.4: Public Hearing

Continue to hold public hearings or meetings for storm water ordinance changes, variances, subdivisions, grant of easements, annexations, preliminary plans, special use permits, planned unit developments and major Village projects.

B.6: Program Coordination

Review the Storm Water Management Program and make the appropriate changes where necessary.

B.7: Other Public Involvement

Continue to conduct both our annual Pond & Stream Sweep and our Adopt-A-Highway Program events. Maintain existing illegal dumping signs.

ILLICIT DISCHARGE DETECTION & ELIMINATION

C.1: Storm Sewer Map Preparation

Carol Stream will continue to update both its storm sewer outfall and storm sewer system maps using GPS and GIS technology. We will provide revised maps to DuPage County in the requested format.

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C.2: Regulatory Control Program

Participate on the Municipal Engineers Advisory Group in the preparation, review or revision of regulatory processes and procedures. Communicate and exchange with DuPage County the required information for an effective program.

C.5: Illicit Source Removal Procedures

Once DuPage County notifies the Village of the source of an illicit discharge, the protocols set forth in the technical guidance chapter will be followed to have that illicit discharge removed. Carol Stream will provide DuPage County with the status of each illicit discharge that is in the process of being removed.

C.6: Program Evaluation & Assessment

Continue with the annual evaluation and assessment processes developed in the first year.

CONSTRUCTION SITE RUNOFF CONTROL

D.1: Regulatory Control Program

Carol Stream will continue to adopt the Storm Water Ordinance as it is updated by DuPage County to keep up with local and national regulations while implementing appropriate best management practices to lower quantities of pollutants from ending up in out waterways and drinking water. Village personnel will attend educational and training sessions as offered by DuPage County to help maintain a more consistent and effective application of the regulations throughout the county.

D.2: Erosion & Sediment Control BMPs

Continue to educate staff on the evolving regulations by attending training programs and seminars.

D.4: Site Plan & Review Procedures

Carol Stream will offer staff the ability to attend training seminars or workshops where they will be able to review and learn new methods of their evolving fields.

D.5: Public Information Handling Procedures

Continue to field public complaints and requests utilizing the Village's CSR process. Conduct open public meetings where the public can comment on storm water issues. Continue to offer meetings for developers as well as the public to obtain information and comment on storm water concerns.

D.6: Site Inspection/Enforcement Procedures

Ensure staff has proper qualifications to conduct site inspections with respect to sediment and erosion control. Continue to offer employees the ability to attend training on site inspections of storm water management facilities.

POST CONSTRUCTION RUNOFF CONTROL

E.2: Regulatory Control Program

Carol Stream will offer staff the ability to attend training seminars or workshops where they will be able to review and learn new methods of their evolving fields.

E.3: Long Term O&M Procedures

Continue to enforce the Storm Water Ordinance and accept storm water management and conveyance easements and wetland conservation easements.

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E.4: Pre-construction Review of BMP Designs

Perform plan reviews in conformance with the new BMP Manual requirements. Carol Stream will offer staff the ability to attend training seminars or workshops where they will be able to review and learn new methods of their evolving fields.

E.5: Site Inspections During Construction

Continue performing site inspections on all developments that have been issued a storm water permit for soil and erosion control and post construction BMPs. Continue to offer employees the ability to attend training on site inspections of BMPs.

E.6: Post Construction Inspections

Continue performing “punch list” inspections for final acceptance of all sites requiring soil and erosion control measures post construction BMPs. Continue reviewing as-built drawings and calculations for permit compliance. Continue to offer employees the ability to attend training on site inspections.

POLLUTION PREVENTION/GOOD HOUSEKEEPING

F.1: Employee Training Program

Evaluate the procedures for effectiveness and improve training as necessary based on completed session surveys and suggestions. Collect records of employee training conducted in-house and encourage them to document any other methods of on-going training within their facility.

F.2: Inspection & Maintenance Program

Continue the Catch Basin Cleaning, Inspection and Assessment Program, the Street Sweeping Program, the Wetland & Pond Shoreline Monitoring & Management Program, Sanitary Sewer Inspection Program and Sanitary Sewer Manhole Sealing Program. Discontinue the use of fertilizers containing phosphates and utilize organic options when fertilization is necessary.

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F.4: Municipal Operations & Waste Disposal

Continue the recycling of used oil, oil filters, batteries and tires. Carol Stream will submit record keeping of pollution prevention and good housekeeping activities for annual reporting.

***F.5: Flood Management/Assess Guidelines
Stormwater & Flood Plain Ordinance Updates***

Adopt any revisions to the DuPage County Countywide Storm Water and Flood Plain Ordinance.

FIRM Updates

The Village will begin utilizing the corrected and updated DFIRM maps once they have been approved and adopted by FEMA and DuPage County.

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The Village of Carol Stream is relying on DuPage County to satisfy our permit obligations. See DuPage County’s Annual Facility Inspection Report.

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CONSTRUCTION PROJECT LIST

Listed below are the following Village construction projects, some of which required an IEPA Construction ILR10 permit. However, some only required a DuPage County Stormwater management permit but all required soil erosion and sedimentation control measures.

Location	Start Date Est. Comp. Date Description
Southwest Water Main Construction Project ILR10P817	2/2012 9/2012 Construction of new water main along Fair Oaks Road, Trieste Land and St. Charles Road
Kuhn Road Bike Path Project ILR10P442 ILR10Q142	12/2011 3/2013 Construction of a new bike path along Kuhn Road from Lies Road to Volunteer Park
Fair Oaks Road Pavement Rehabilitation Project ILR10P844	3/2012 3/2013 Resurfacing of Fair Oaks Road from Army Trail Road to North Avenue
Klein Creek Flood Plain Structure Phase I Buyout & Demolition Project	12/2010 11/2012 Purchase and demolish three repetitive flood damaged structures and restore site to permanent open space.
Klein Creek Flood Plain Structure Phase II Buyout & Demolition Project	3/2013 10/2013 Purchase and demolish one repetitive flood damaged structure and restore site to permanent open space.