

Metropolitan Water Reclamation District of Greater Chicago

Stormwater Management Program

2013 Annual Report



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Overview

The Metropolitan Water Reclamation District of Greater Chicago (MWRD) was granted stormwater management authority for Cook County with the passage of Public Act 93-1049 (Act) in November 2004. The framework of the MWRD's Stormwater Management Program, including its mission, goals, and program elements, is presented in the Cook County Stormwater Management Plan (CCSMP), which was adopted by the MWRD's Board of Commissioners in February 2007.

During 2013, the MWRD continued preliminary engineering and design work for several of the alternatives recommended in Detailed Watershed Plans (DWPs), continued work on the Small Streams Maintenance Program (SSMP), finalized the Watershed Management Ordinance (WMO), which was adopted by the MWRD Board of Commissioners on October 3, 2013, and continued the rain barrel program. New activities for 2013 were the initiation of Phase II of the District's Stormwater Management Program and starting work on a Green Infrastructure Program. Further details concerning these items and other stormwater management activities are provided in this Annual Report.

Mission and Goals

Stormwater Management Mission Statement

The mission of the Stormwater Management Program is to protect the safety of Cook County's residents and minimize flooding damage by coordinating, planning, implementing, financing, and operating regional stormwater management projects, and to develop and enforce reasonable rules with respect to watershed development. The framework of the MWRD's countywide stormwater management program is presented in the Cook County Stormwater Management Plan (CCSMP).

2013 Accomplishments for the Stormwater Management Program include the following:

- Commenced design of recommended stormwater improvements, or alternatives, identified in the DWPs that were completed in 2011, including projects summarized in the Stormwater Management Activities section of the Annual Report;
- Continued design for the following projects:
 - Streambank stabilization projects on reaches of Tinley Creek, Midlothian Creek, I&M Canal Tributary, Melvina Ditch, Oak Lawn Creek, Calumet Union Drainage Ditch, Middle Fork and the West Fork of the North Branch of the Chicago River, Addison Creek, Higgins Creek, and McDonald Creek;
 - Flood control projects on reaches of Upper Salt Creek, Deer Creek, Tinley Creek, Navajo Creek, Cherry Creek East Branch, Addison Creek, Des Plaines River, Buffalo Creek, Main Stem and the West Fork of the North Branch of the Chicago River, Skokie River and Farmers Prairie Creek;
- Continued work to complete and adopt the WMO;
- Continued construction on the Heritage Park Flood Control Facility;
- Continued the removal of debris and blockages from the 532 miles of small streams within the MWRD's service area as part of the Small Streams Maintenance Program (SSMP).

Stormwater Management Activities

Stormwater Management Capital Improvement Program

Capital improvement projects recommended for implementation by DWPs are separated into two categories: streambank stabilization and flood control. Projects given the highest priority for implementation are streambank stabilization projects which address streambank erosion posing an imminent threat to public safety and/or structures. Flood control projects will address regional flooding issues through traditional measures, such as stormwater detention reservoirs, levees, and conveyance improvements. Preliminary engineering and design of projects approved by the Board of Commissioners are underway and will continue into the future.

Streambank Stabilization Projects

The following is a detailed list of streambank stabilization projects. Streambank stabilization project locations are shown in Appendix A.

- **OLCR-3 (Oak Lawn Creek)**

Watershed: Calumet-Sag Channel

Location: Oak Lawn

Description: Stabilize approximately 1,070 LF of Oak Lawn Creek using soldier piles and precast concrete panels.

Estimated Construction Cost: \$4,175,000

Status: Final Design

- **CUDD-G3 (Calumet Union Drainage Ditch)**

Watershed: Little Calumet River

Location: Markham

Description: Stabilize approximately 3,559 LF of Calumet Union Drainage Ditch using bioengineering techniques and provide conveyance improvements.

Estimated Construction Cost: \$1,450,000

Status: Final Design - 98%

- **MTCR-G2 (Midlothian Creek)**

Watershed: Little Calumet River

Location: Tinley Park

Description: DWP recommended to stabilize Midlothian Creek at two locations: between 172nd Street and Oak Park Avenue and between Hickory Street and 66th Court.

Estimated Construction Cost: \$175,000

Status: Final Design - 60%

- **MEDT-1 (Melvina Ditch)**

Watershed: Calumet-Sag Channel

Location: Chicago Ridge, Oak Lawn

Description: Stabilize approximately 2,700 LF of Melvina Ditch.

Conceptual Cost Estimate: \$2,845,500

Status: Preliminary Engineering

- **TICR-SE1 (Tinley Creek)**

Watershed: Calumet-Sag Channel

Location: Crestwood

Description: Stabilize approximately 1,000 LF of Tinley Creek using gabions.

Estimated Construction Cost: \$1,480,723

Status: Final Design

- **IMTD-SE1 (I&M Canal Tributary D)**

Watershed: Calumet-Sag Channel

Location: Willow Springs

Description: Stabilize approximately 1,250 LF of I&M Canal Tributary D using a combination of concrete masonry units and bioengineering techniques.

Estimated Construction Cost: \$800,000

Status: Final Design

- **MF-06N (Middle Fork of the North Branch of the Chicago River - North)**

Watershed: North Branch of the Chicago River

Location: Northfield

Description: Stabilize approximately 1000 LF along the Middle Fork of the North Branch of the Chicago River.

Design Cost Estimate: \$700,000

Status: Final Design 60%

- **MF-06S (Middle Fork of the North Branch of the Chicago River - South)**

Watershed: North Branch of the Chicago River

Location: Northfield

Description: Stabilize approximately 150 LF along the Middle Fork of the North Branch of the Chicago River.

Design Cost Estimate: \$378,000

Status: Final Design - Final Design - 60%

- **MF-07 (Middle Fork of the North Branch of the Chicago River)**

Location: Northfield

Watershed: North Branch of the Chicago River

Description: Stabilize approximately 500 LF along the Middle Fork of the North Branch of the Chicago River.

Conceptual Cost Estimate: \$372,000

Status: Final Design - 60%

- **WF-03 (West Fork of the North Branch of the Chicago River)**

Watershed: North Branch of the Chicago River

Location: Northbrook

Description: Stabilize approximately 200 LF along the West Fork of the North Branch of the Chicago River.

Conceptual Cost Estimate: \$360,000

Status: Final Design - 60%

- **ADCR-9 (Addison Creek)**

Watershed: Lower Des Plaines River

Location: North Riverside

Description: Stabilize approximately 410 LF along Addison Creek.

Conceptual Cost Estimate: \$183,507

Status: Final Design

- **ADCR-7 (Addison Creek)**

Watershed: Lower Des Plaines River

Location: Northlake

Description: Stabilize approximately 1,950 LF along Addison Creek.

Conceptual Cost Estimate: \$217,174

Status: Final Design

- **HGCR-1 (Higgins Creek)**

Watershed: Lower Des Plaines River

Location: Des Plaines

Description: Stabilize approximately 400 LF along Higgins Creek.

Conceptual Cost Estimate: \$788,478

Status: Final Design

- **MDCR-5 (McDonald Creek)**

Watershed: Lower Des Plaines River

Location: Mount Prospect

Description: Stabilize approximately 1280 LF along McDonald Creek.

Conceptual Cost Estimate: \$227,981

Status: Final Design

- **HGCR-2 (Higgins Creek)**

Watershed: Lower Des Plaines River

Location: Unincorporated Elk Grove Township

Description: Stabilize approximately 820 LF along Higgins Creek.

Conceptual Cost Estimate: \$661,083

Status: Final Design

- **TICR-7 (Tinley Creek)**

Watershed: Calumet-Sag Channel

Location: Orland Park

Description: Stabilize approximately 2,200 LF of Tinley Creek using a combination of retaining walls and bioengineering techniques.

Estimated Construction Cost: \$1,437,510

Status: Final Design . 98%

- **TICR-8 (Tinley Creek)**

Location: Orland Park

Description: Stabilize approximately 1,803 LF of Tinley Creek using a combination of retaining walls and bioengineering techniques.

Estimated Construction Cost: \$2,303,411

Status: Final Design . 98%

Flood Control Projects

The following is a detailed list of flood control projects. Flood control project locations are shown in Appendix B.

- **CHEB-G3 (Cherry Creek)**

Watershed: Little Calumet River

Location: Homewood

Description: Construct 900 LF of new open channel on the west side of Governors Highway, create a flood shelf in the existing channel, and add culverts.

Estimated Construction Cost: \$3,410,000

Status: Final Design

- **TICR-5 (Tinley Creek)**

Watershed: Calumet-Sag Channel

Location: Orland Hills, Orland Park

Description: Dredge 1,500 LF of Tinley Creek downstream of Lake Lorin and remove existing low flow pipe.

Estimated Construction Cost: \$200,000

Status: Final Design

- **SCAH-50 (Upper Salt Creek)**

Watershed: Upper Salt Creek

Location: Palatine

Description: Construct 1,100 LF of storm sewer, engineered berm, and backflow preventers.

Estimated Construction Cost: \$1,096,000

Status: Final Design

- **TICR-3 (Tinley Creek)**

Watershed: Calumet-Sag Channel

Location: Alsip, Crestwood, and Unincorporated Cook County

Description: Increase conveyance capacity along 2,000 LF of Tinley Creek.

Estimated Construction Cost: \$2,621,040

Status: Final Design

- **NVCR-3 (Navajo Creek)**

Watershed: Calumet-Sag Channel

Location: Palos Heights

Description: Raise bike trail 3 ft to provide additional storage in Lake Arrowhead.

Estimated Construction Cost: \$509,000

Status: Final Design

- **DRCR-G1 (Deer Creek)**

Watershed: Little Calumet River

Location: Ford Heights

Description: Increase channel conveyance and raise berm for 3,000 LF.

Estimated Construction Cost: \$3,440,000

Status: Final Design

- **ADCR-6B (Addison Creek)**

Watershed: Lower Des Plaines River

Location: Northlake, Stone Park, Melrose Park, Bellwood, and Westchester

Description: Construct a 960 ac-ft reservoir and conveyance improvements.

Conceptual Cost Estimate: \$133,921,000

Status: Preliminary Engineering

- **DPR-14D (Lyons Levee)**

Watershed: Lower Des Plaines River

Location: Lyons

Description: Enhance the height of the existing Lyons Levee to prevent overtopping.

Conceptual Cost Estimate: \$10,000,000

Status: Preliminary Engineering

- **BUCR-3 (Buffalo Creek Reservoir Expansion)**

Watershed: Lower Des Plaines River

Location: Buffalo Creek Forest Preserve

Description: Expansion of existing Buffalo Creek Reservoir and prairie enhancement

Conceptual Cost Estimate: \$15,000,000

Status: Preliminary Engineering

- **MS-07 (Main Stem of the North Branch of the Chicago River)**

Watershed: North Branch of the Chicago River

Location: Chicago (Albany Park)

Description: Joint project with City of Chicago for diversion tunnel under Foster Ave.

MWRD Contribution: \$25,920,000

Status: Final Design by City of Chicago

- **SR-08 (Skokie River)**

Watershed: North Branch of the Chicago River

Location: Northfield

Description: Construct a levee on both sides of Interstate 94.

Conceptual Cost Estimate: \$5,761,000

Status: Approved for Preliminary Engineering

- **WF-06 (West Fork of the North Branch of the Chicago River)**

Watershed: North Branch of the Chicago River

Location: Glenview

Description: Construct 80 ac-ft of storage, a floodwall, pump station, and a new storm sewer

Conceptual Cost Estimate: \$12,900,000

Status: Preliminary Engineering

- **FRCR-12 (Farmers Prairie Creek).**

Watershed: Lower Des Plaines River

Location: Park Ridge, Des Plaines, Niles, and Maine Township

Description: Construct conveyance improvements, pump station, additional storage, and a new force main.

Conceptual Cost Estimate: \$19,788,000

Status: Final Engineering

Heritage Park Flood Control Facility

While the DWPs were being developed, the MWRD considered funding projects that would provide regional benefits as identified in studies performed by regional agencies such as the Illinois Department of Natural Resources/Office of Water Resources (IDNR-OWR) and the United States Army Corps of Engineers (USACE). One such project is the Heritage Park Flood Control Facility, which will provide the required compensatory storage for USACE's Levee 37 project along the Des Plaines River. In 1999, the USACE approved a study for the Upper Des Plaines River from the Wisconsin/Illinois state line to Riverside, Illinois. Known as the Des Plaines River Phase I Study, its purpose is to identify solutions to flooding along the main stem of the river. Subsequently, the MWRD began negotiations with the Wheeling Park District and the Village of Wheeling for the use of Heritage Park in Wheeling as the site of the compensatory storage required for Levee 37. The MWRD entered into an intergovernmental agreement with the Wheeling Park District and the Village of Wheeling on April 1, 2010, and final design of the Heritage Park Flood Control Facility commenced shortly thereafter. Final design was completed in 2011, and a construction contract was awarded in 2012 for \$29.5 million. Construction is currently underway and is anticipated to be completed in 2014. The project includes an expansion to the existing stormwater detention reservoir known as Lake Heritage, excavation of new floodwater storage areas east and west of Buffalo Creek, and passive and active recreation components. An exhibit depicting the Heritage Park Flood Control Facility is provided in Appendix C.

Phase II Stormwater Management Program

Based on the direction provided by MWRD's Board of Commissioners on April 18, 2013, MWRD District initiated Phase II of its Stormwater Management Program to address local drainage problems, develop stormwater master plans across Cook County, and set up a program for purchasing flood prone and flood damaged property on a voluntary basis.

In May 2013, the Engineering Department solicited information from each municipality, township and regional agency having jurisdiction in Cook County to identify stormwater problems along with potential projects to address them. Over 600 problem areas and/or project requests were submitted and reviewed by the Engineering Department, and on September 19, 2013, 35 projects located throughout the County were approved by the Board of Commissioners, who authorized the District to assist local communities and agencies in the furtherance of these projects in the form of funding, engineering, and/or other assistance to be defined through negotiations with these entities. The approved projects include green infrastructure improvements, localized detention, upsizing critical storm sewers/culverts, pump stations, and establishing drainage ways.

In addition to assisting the local communities with the projects as described above, the District plans to initiate five pilot studies in 2014 to perform stormwater master planning studies to evaluate the reported problem areas where specific solutions have not been identified or are in need of further evaluation. The pilot areas will be located within the geographic areas of each of the four Councils of Government (COGs) and the City of Chicago (City). District staff consulted with the COGs and the City to determine suitable areas for the pilot studies. It is anticipated that stormwater master plans will be developed for all areas of Cook County over the next several years following the process to be defined through the pilot studies.

At the conclusion of 2013, MWRD was working with State lawmakers to expand MWRD's legislative authority to allow it to plan, implement, finance, and operate local stormwater management projects. The District's existing authority allows it to identify and address regional stormwater problems, however, the proposed changes will allow the District to move forward on new initiatives under the Phase II program including partnering with local communities and agencies to address local drainage problems, and setting up a program for purchasing flood prone and flood damaged property on a voluntary basis. In the event the pending legislation is passed, the District will amend its Cook County Stormwater Management Plan to make it consistent with its revised authority in 2014.

Small Streams Maintenance Program (SSMP)

The 2013 Small Streams Maintenance Program (SSMP) successfully concluded its seventh full year of operation. This program, conceived and established in 2006, follows the District's stormwater management mission to improve flooding in urbanized areas through immediate and relatively simple remedies. The objective of the program is to remove obstructions and debris in the waterways that impede the natural drainage of Cook County's small streams and rivers with the potential for flooding urban areas.

In 2013, the District continued to utilize a two-year stream maintenance contract. The District paid a total of \$2,215,251.61 in 2013 to contractors to provide stream maintenance.

The SSMP is advertised on the District's website and includes a link to allow citizens to report stream blockages. The SSMP staff also attended meetings of the Watershed Planning Councils (WPCs), Councils of Governments (COGs) and local public works meetings to provide an overview of the program's purpose, objectives and goals. The local municipalities enthusiastically assisted in identifying blockages, stream deficiencies and sensitive areas within their jurisdictions. Their communication with the District is ongoing and valuable to the success of the program. District staff also contacted representatives of the various WPCs, COGs, public works officials and citizens directly to coordinate the work.

District and contractor crews removed approximately 30,821 cubic yards of debris in 2013. Included in the debris total is 2,837 cubic yards of river and canal debris removed by the District's debris and pontoon boat crews along the Chicago Area Waterways (CAWS). Listed in the table below are the amounts removed in each watershed.

Watershed	2010 Cubic Yards Removed	2011 Cubic Yards Removed	2012 Cubic Yards Removed	2013 Cubic Yards Removed
Little Cal	6,472	9,526	5,564	7,405
Cal Sag	9,489	3,195	7,414	8,115
Lower Des Plaines	10,832	12,874	5,310	10,038
North Branch	4,692	4,338	4,313	4,533
Upper Salt Creek	1,585	645	590	480
Poplar Creek	1,651	184	201	250
Total	34,721	30,762	23,392	30,821

In 2013, local municipalities provided valuable assistance in debris removal by supplying items such as barricades, flagmen, trucks, various equipment, road control, and debris disposal of approximately 1,380 cubic yards, saving the District approximately \$90,000.

The SSMP will continue in 2014 at a contract budget value of \$2,500,000. It is anticipated that 35,000 cubic yards of debris will be removed from streams and rivers in 2014. Major goals include standardizing procedures, identifying critical stream areas, scheduling critical inspections and continuing to introduce the District's Small Stream crews to local governments to increase the public's awareness of the District's presence and execution of the SSMP.

The 2013 expenditure for the SSMP program (Functional Area 4332) was \$3,448,286. Therefore, the average cost per cubic yard was \$111.88.

Watershed Management Ordinance

The Watershed Management Ordinance (WMO) establishes uniform, minimum, countywide stormwater management regulations throughout Cook County. Components which are regulated under the WMO include drainage and detention, volume control, floodplain management, isolated wetland protection, riparian environment protection, and soil erosion and sediment control. The District's Board of Commissioners adopted the Watershed Management Ordinance on October 3, 2013, which will become effective on May 1, 2014. The District is developing a Technical Guidance Manual (TGM), which will serve as a technical reference to the WMO. The District will conduct training for stakeholders in 2014 to ease the transition from the Sewer Permit Ordinance to the WMO. The WMO webpage, wmo.mwrd.org, contains more information on both the WMO and draft TGM.

Joint Funding Agreement with the United States Geological Survey (USGS) for Stream Gaging Stations in Cook County

The MWRD entered into a Joint Funding Agreement with the USGS in 2006 and has renewed the agreement annually to fund the maintenance and operation of the following nine stream gages located within Cook County:

1. North Branch of the Chicago River at Deerfield
2. Salt Creek at Elk Grove Village
3. Salt Creek at Western Springs
4. Salt Creek at Rolling Meadows
5. Deer Creek near Chicago Heights
6. Butterfield Creek at Flossmoor
7. Midlothian Creek at Oak Forest
8. Tinley Creek near Palos Park
9. North Shore Channel at Wilmette

The data from the streamflow gaging stations has proven useful for the MWRD with calibration of the hydrologic and hydraulic models in the DWP development. In addition to the streamflow gages, this agreement also funds a rain gage on Salt Creek near Rolling Meadows. Real time data from these gages is available on the USGS's website at www.usgs.gov. A map showing the location of the gages is presented in Appendix D.

Coordination with Watershed Planning Councils (WPCs)

The Act required the formation of WPCs, which serve as advisory bodies to the MWRD for its stormwater management program. Membership in the WPCs includes the chief elected official, or his or her designee, for municipalities and townships, and the Cook County Board President, or his or her designee, for unincorporated areas. In 2005, the municipal conferences, with assistance from the MWRD, established WPCs for the watersheds of the North Branch of the Chicago River, the Lower Des Plaines River, the Calumet-Sag Channel, the Little Calumet River, Poplar Creek, and Upper Salt Creek.

Since 2005, each of the WPCs has met at least quarterly, as required by the Act. WPC meetings serve as a mechanism for representatives of municipalities and townships to be updated on the progress of the DWPs, SSMP, WMO, and capital projects, as well as to communicate concerns of the public to the MWRD.

The following Councils of Government (COGs) are responsible for coordination of the WPCs: Northwest Municipal Conference, West Central Municipal Conference, South Suburban Mayors and Managers Association, and Southwest Conference of Mayors. The MWRD negotiated agreements with each of the COGs to provide administrative assistance related to coordination of the WPCs; the current agreement was renewed for 2013 and 2014. In 2013, the COGs assisted the MWRD by arranging meeting schedules, drafting and distributing meeting agendas, distributing information from the MWRD to WPC members, assembling contact information for WPC representatives, and forwarding information about stormwater management concerns from the WPC members to the MWRD.

Green Infrastructure Program

The MWRD entered into a Federal Consent Decree (CD) with USEPA and IEPA on January 6, 2014. Appendix E of the CD requires MWRD to create a Green Infrastructure Plan to guide the goals of its Green Infrastructure Program. The Plan is currently in development and will be completed in 2014.

Elements of the Green Infrastructure Program include an expanded rain barrel program, land use policy for property owned by MWRD, community technical assistance, a reporting schedule, and a plan for early monitoring, evaluation, and knowledge building. In 2013, MWRD started work on seven projects to achieve this goal: four Chicago Public Schools, Blue Island, Evanston, and Kenilworth. These projects are scheduled to be complete within 2014, and are designed to provide over three million gallons of Design Retention Capacity (DRC), stormwater that will be retained on-site and not enter combined sewer systems.

The Chicago Public School System is doing major rehabilitation of the grounds of four elementary schools, with Green Infrastructure (GI) as a major design component of each project. MWRD will contribute up to \$500,000 to each of the four schools, specifically on GI measures that will reduce local flooding, while reducing the amount of rainwater entering the local combined sewer systems. The City of Chicago Department of Water Management will also provide up to \$2,000,000 for GI on these projects. Each project will include various amounts of permeable pavement, rain gardens, native landscaping, stormwater trees, bioswales, and bioretention areas greenways to store and infiltrate stormwater generated from the site. The four elementary schools, Grissom, Leland, Morrill and Schmid, are all in low income areas throughout the City. The four sites employ educational components to inform students and the surrounding community about the benefits of Green Infrastructure. All four projects are anticipated to be completed in before the close of 2014.

MWRD is keeping records of, and investigating funding the GI components of various potential projects throughout the service area. For calendar year 2014, MWRD is partnering with three suburbs within its service area to develop flood mitigation projects that incorporate GI. The communities (Blue Island, Evanston and Kenilworth) have developed projects that will reduce local flooding. The MWRD has committed a total of over \$2,000,000 to fund the GI components of these projects.

The first of these projects, is in Kenilworth, where the MWRD is partnering with the Village to install green infrastructure components on Cumberland Ave and Roslin Rd. The project is a MS4 sewer separation project, in which the MWRD is able to leverage the existing project planning and construction process to install GI at the same time that the streets and sewers are being replaced. This project will consist of permeable pavement, bioswales and rain gardens in the right-of-way, and at its current stage of design, has a DRC of over 650,000 gallons.

The City of Evanston is partnering with MWRD to reconstruct its Civic Center parking lot with GI in the forms of pervious pavement concrete, bioswales, and rain gardens, to provide a DRC of approximately 150,000 gallons.

MWRD is providing construction ready engineering plans to address urban flooding issues using GI in the City of Blue Island. Recommendations will likely include rain gardens in the right-of-way and permeable parking areas, and DRC is estimated to be over 1,000,000 gallons.

All three of the above community projects are using Green Infrastructure to augment grey projects that are meant to reduce local flooding. Besides assistance in flood reduction, GI will also keep stormwater out of the stressed combined sewer systems. In all seven projects the combined DRC will be over 3,000,000 gallons.

Rain Barrel Program

The District's rain barrel program has been in place since 2007, and will continue under the green infrastructure program. This program continued to sell rain barrels in 2013 by home delivery. The cost for a rain barrel was \$58. Individuals are able to order up to two rain barrels per household each year. Municipalities within the District boundaries are also able to purchase up to 40 rain barrels, which are then sold to their residents. The District sold 529 rain barrels in 2013. The rain barrels program will continue in 2014, and the District is anticipating an increase in sales to approximately 10,000 over the next 3 years.

Public Affairs

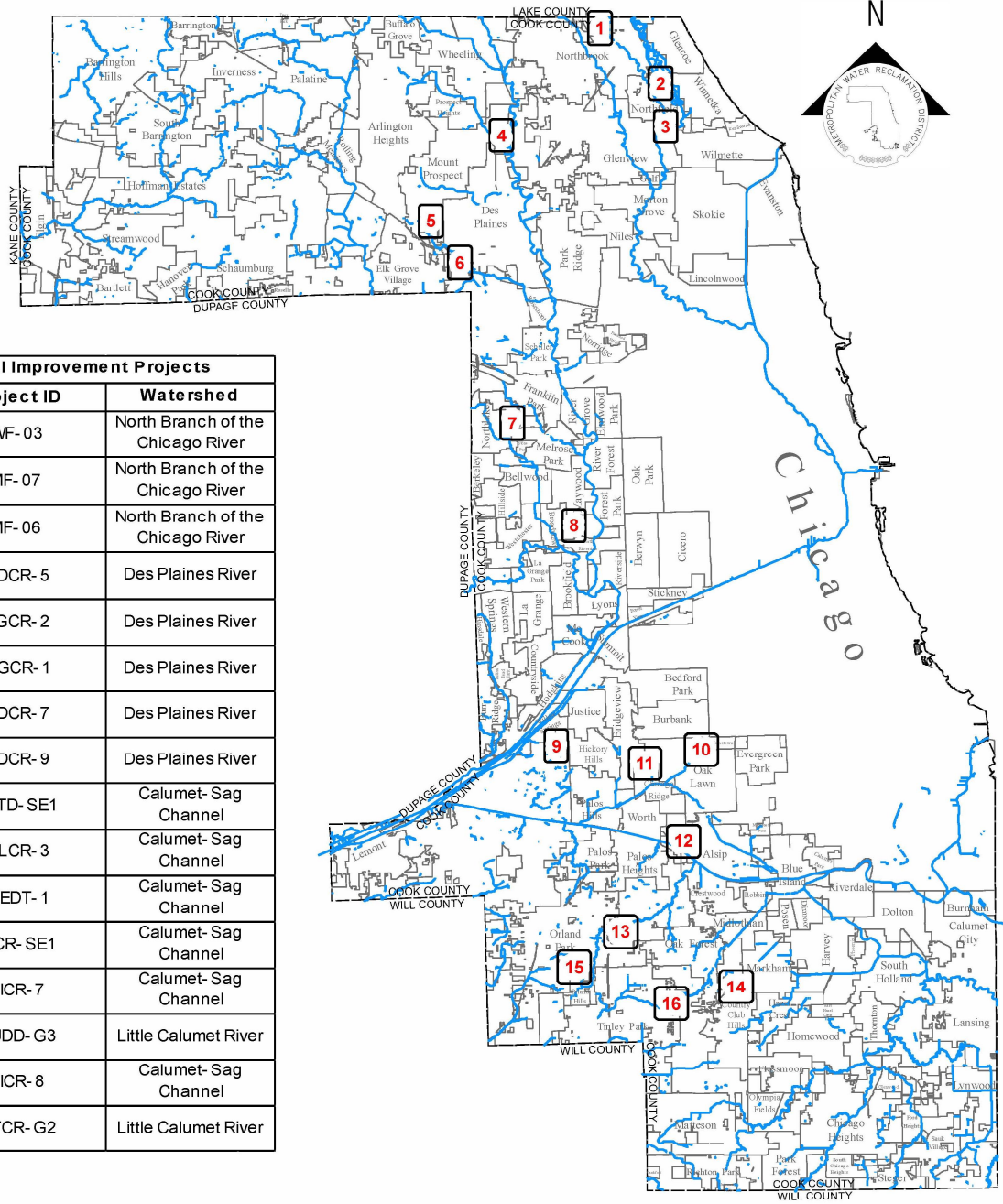
In 2013, MWRD staff provided information about the District and the Stormwater Management Program at various public events in communities throughout the region and at various technical conferences. The MWRD attends all WPC meetings to provide updates on watershed planning efforts, development of the WMO, and stream maintenance activities. These meetings are open to the public and provide an opportunity for concerns of the public to be communicated to the MWRD. The MWRD also produced a SSMP newsletter, "Small Streams, Big Accomplishments", which was made available at WPC meetings and was posted on the MWRD's website. The MWRD also worked to educate the general public on their water footprint by attending 59 community and environmental fairs. The 2013 Stormwater Management related press releases are listed in Appendix F.

MWRD Staff will continue to participate in community outreach events and provide rain barrel giveaways through the Water Environment Pledge initiative in 2014. The MWRD will continue to participate in Watershed Planning Council meetings, create the "Small Streams, Big Accomplishments" newsletter and continue to promote the MWRD stormwater management efforts using press releases and other media outlets.

Appendices

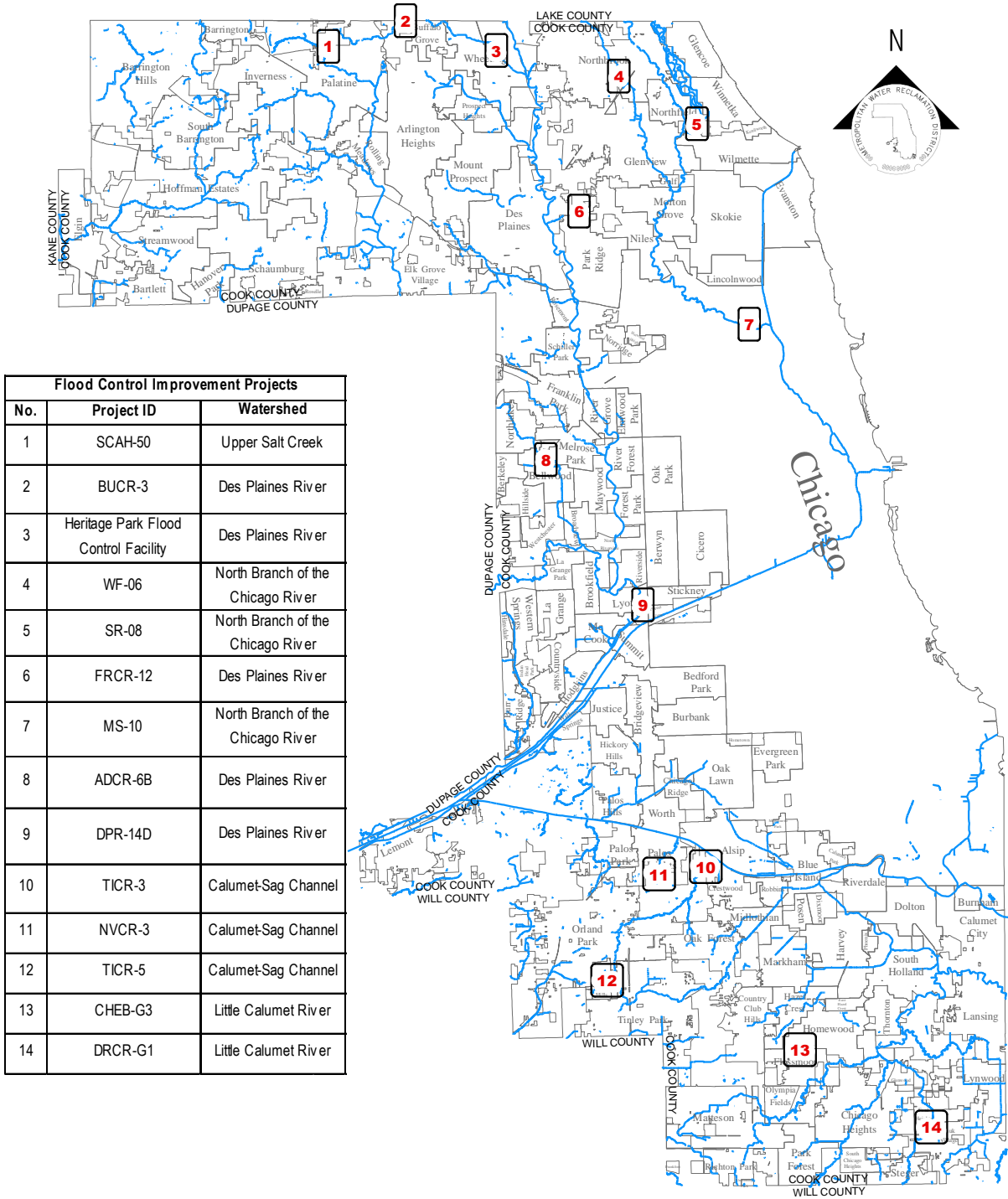
Appendix A	Streambank Stabilization Projects
Appendix B	Flood Control Projects
Appendix C	Heritage Park Flood Control Facility
Appendix D	MWRD and USGS Joint Funded Stream Gages
Appendix E	Stormwater Expenditures
Appendix F	Stormwater Management Related Press Releases

Appendix A - Stream Bank Stabilization Projects



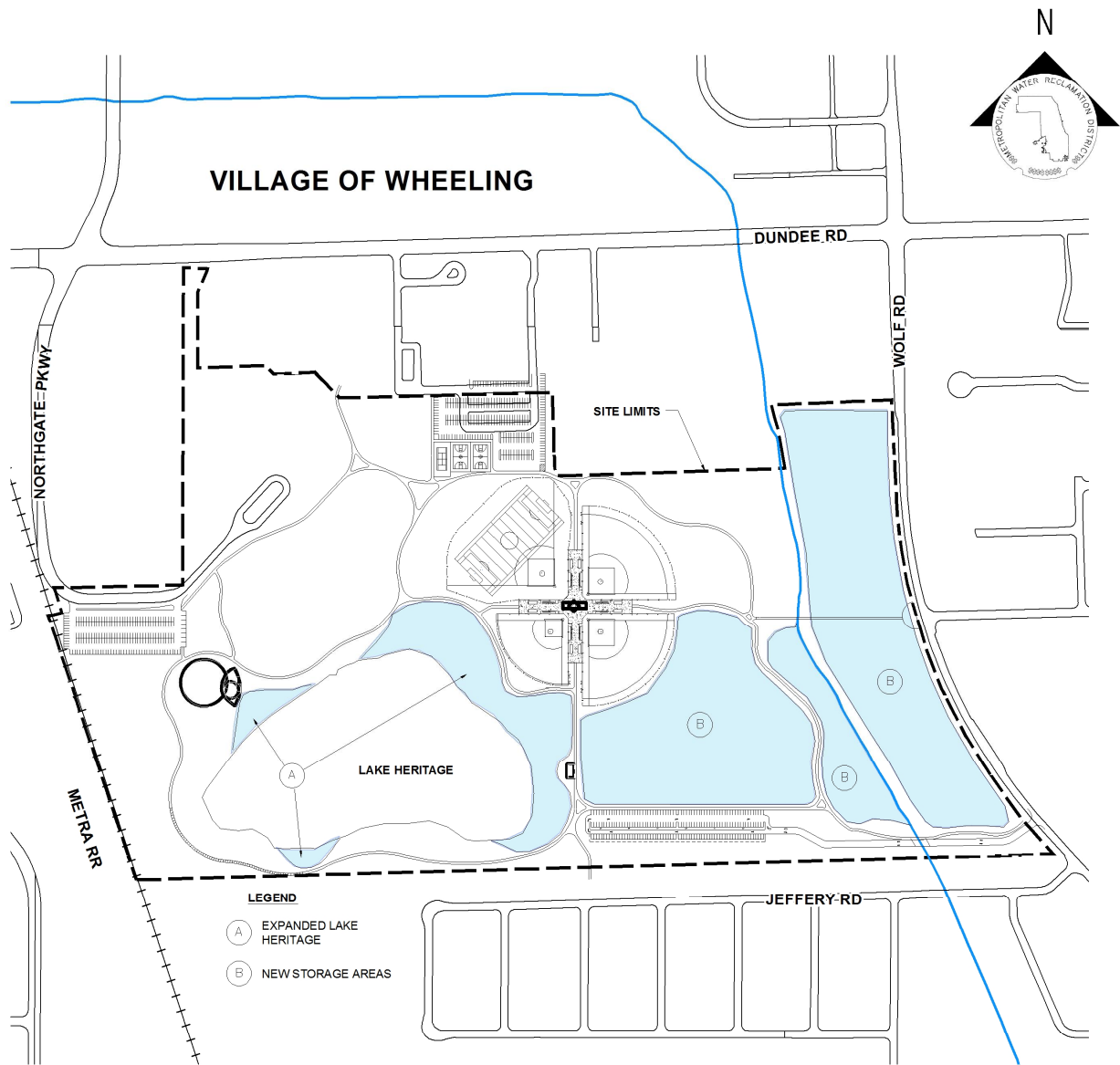
Capital Improvement Projects		
No.	Project ID	Watershed
1	WF-03	North Branch of the Chicago River
2	MF-07	North Branch of the Chicago River
3	MF-06	North Branch of the Chicago River
4	MDCR-5	Des Plaines River
5	HGCR-2	Des Plaines River
6	HGCR-1	Des Plaines River
7	ADCR-7	Des Plaines River
8	ADCR-9	Des Plaines River
9	IMTD-SE1	Calumet-Sag Channel
10	OLCR-3	Calumet-Sag Channel
11	MEDT-1	Calumet-Sag Channel
12	TICR-SE1	Calumet-Sag Channel
13	TICR-7	Calumet-Sag Channel
14	CUDD-G3	Little Calumet River
15	TICR-8	Calumet-Sag Channel
16	MTCR-G2	Little Calumet River

Appendix B - Flood Control Projects



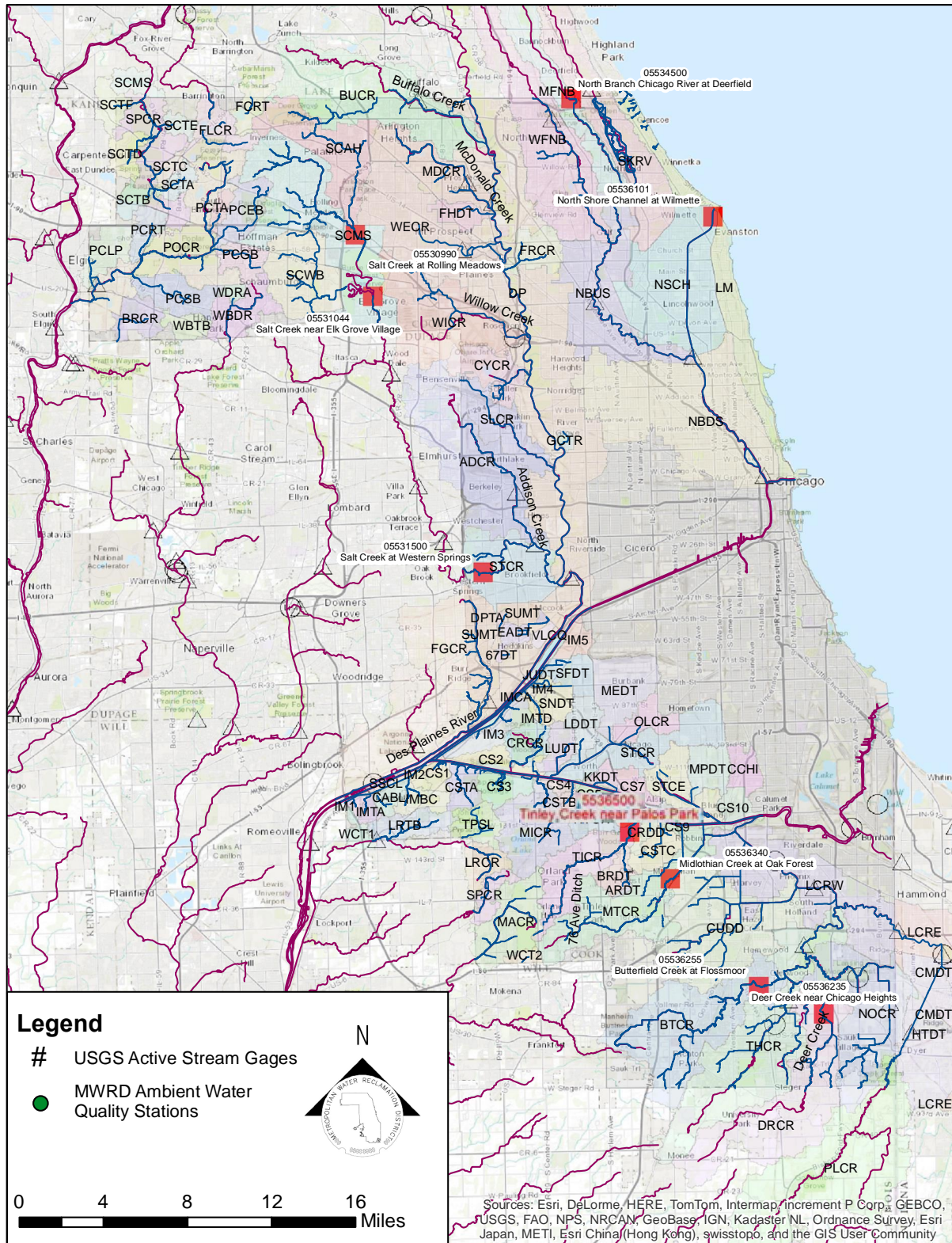
Flood Control Improvement Projects		
No.	Project ID	Watershed
1	SCAH-50	Upper Salt Creek
2	BUCR-3	Des Plaines River
3	Heritage Park Flood Control Facility	Des Plaines River
4	WF-06	North Branch of the Chicago River
5	SR-08	North Branch of the Chicago River
6	FRCR-12	Des Plaines River
7	MS-10	North Branch of the Chicago River
8	ADCR-6B	Des Plaines River
9	DPR-14D	Des Plaines River
10	TICR-3	Calumet-Sag Channel
11	NVCR-3	Calumet-Sag Channel
12	TICR-5	Calumet-Sag Channel
13	CHEB-G3	Little Calumet River
14	DRCR-G1	Little Calumet River

Appendix C - Heritage Flood Control Facility



**HERITAGE PARK FLOOD CONTROL FACILITY
(COMPENSATORY STORAGE FACILITY FOR LEVEE 37)
AWARDED IN 2012
COST: \$29,475,000**

Appendix D - MWRD and USGS Joint Funded Stream Gages



Appendix E . Committed Expenditures

Category	Description	2013	
			Committed Expenditures
Personal Services: Consultant	Fees paid to consultants for professional services rendered, including the following projects:	\$	4,202,590
	Preliminary Engineering	\$	2,170,967
	Final Engineering	\$	1,160,687
	Post Award	\$	868,547
	Heritage Park Flood Control Facility Legal Services	\$	2,389
Personal Services: In-House	Salaries and associated costs related to MWRD personnel:	\$	4,361,728
	Engineering Department	\$	1,815,709
	Maintenance and Operations Department	\$	2,546,019
Contractual Services	Fees paid for services provided by COGs, agencies or companies, including the following:	\$	22,988,716
	COGs Administrative Contracts:		
	Northwest Municipal Conference	\$	7,196
	South Suburban Mayors and Managers Association	\$	5,374
	Southwest Conference of Mayors	\$	15,000
	West Central Municipal Conference	\$	10,741
	Small Streams Maintenance Program	\$	2,227,172
	Small Streams Maintenance Program Waste Disposal	\$	43,882
	Court Reporting Services	\$	12,895
	USGS Joint Funding Agreement for Stream Gaging Stations in Cook County	\$	71,526
	Streetscape and Sustainability Design Program	\$	70,000
	Heritage Park Flood Control Facility Land Acquisition & Appraisals	\$	1,041,468
	Waterways Facilities Structures	\$	19,366,485
	Repairs to Collection Facilities	\$	66,063
	Permit Review	\$	11,717
	Miscellaneous Contractual Services	\$	39,197
Administrative Expenses	Materials, equipment and supplies:	\$	2,198
Total 2013 Committed Expenditures		\$	31,555,231

Appendix F - 2013 Stormwater Management Related Press Releases

Jan 29	MWRD Executive Director participates on American Public Works Association stormwater panel
April 12	MWRD to participate in Village of Norridge's 2nd Green Event
April 18	MWRD continues to monitor severe storms
May 17	Federal government approves flood relief for Cook County; impacted residents eligible to apply for grants and low-interest loans
June 12	Federal flood relief application deadline is July 9
June 26	MWRD continues to monitor severe storms, storm update: 9:45 a.m.
July 9	MWRD leadership, Mayor Emanuel stay focused on flood relief, receive federal funding for TARP
July 15	MWRD to host public meetings to discuss Watershed Management Ordinance
August 7	Public. Private Collaboration Announces the Chi. Cal Rivers Fund Partnership to fund projects for improving stormwater management, habitat, and public access in Chicago/Calumet region
October 3	Chinatown's Haines Elementary School selected for rain garden construction
October 4	MWRD Board approves Watershed Management Ordinance
October 10	MWRD hosts inaugural Sustainability Summit
October 11	New rain garden, native plantings to reduce flooding on Haines Elementary School playground
November 27	Cornucopia of actions can improve water environment (One of the actions is installation of a rain barrel.)
December 5	Cook County partnership to help residents prepare for impacts of natural hazards
December 10	Chi. Cal Rivers Fund Announces \$1 Million in Grants Public. private partnership funds four projects to improve stormwater management, habitat, and green space in Chicago/Calumet region