Watershed Management Ordinance (WMO)
Summary of Permit Compliance Resources

Presented by:
Daniel Feltis, P.E., CFM
WMO Objective

Establish uniform, minimum, and comprehensive countywide stormwater management regulations

Enabling Legislation

Watershed Management Ordinance

“Stormwater management in Cook County shall be under the general supervision of the Metropolitan Water Reclamation District of Greater Chicago.”

“The District may prescribe by ordinance reasonable rules and regulations for floodplain and stormwater management... in Cook County.”

Public Act 093-1049
Sewer Permit Ordinance

- Sanitary Sewers
- Stormwater Detention
  - TP-40 Rainfall Data
  - Modified Rational Method

Watershed Management Ordinance

- Sanitary Sewers
- Stormwater Detention
  - Bulletin-70 Rainfall Data
  - Flat Release Rate
  - Hydrograph Method
- Volume Control
- Erosion & Sediment
- Flood Protection Areas
  - Floodplain
  - Floodway
  - Isolated Wetlands
  - Riparian Areas
Do I need a WMO Permit... ... Even Here?

Permit Applicability
§201, Table 1

Development
> 0.5 Disturbed Area

Flood Protection Areas
Floodplain, Wetlands, Riparian etc.

Qualified Sewer Construction

Stormwater Requirements
Article 5, Table 2
Ownership

District Impacts

Color Code:
• Cook County, ☀Chicago
• District Corporate Limits, ☀Chicago
• Cook County including Chicago

TARP / Interceptors
Waterway Outfalls
Lake Michigan
District Property
<table>
<thead>
<tr>
<th>Development Type</th>
<th>Runoff Requirements</th>
<th>Volume Control Requirements&lt;sup&gt;2&lt;/sup&gt;</th>
<th>Detention Requirements&lt;sup&gt;2&lt;/sup&gt;</th>
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</thead>
<tbody>
<tr>
<td>Single-Family Home</td>
<td>Exempt</td>
<td>Exempt</td>
<td>Exempt</td>
</tr>
<tr>
<td>Residential Subdivision</td>
<td>Parcels ≥ 1 acre</td>
<td>Parcels ≥ 1 acre</td>
<td>Parcels ≥ 5 acres</td>
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<tr>
<td>Multi-Family Residential</td>
<td>Parcels ≥ 0.5 acre</td>
<td>Parcels ≥ 0.5 acre</td>
<td>Parcels ≥ 3 acres †</td>
</tr>
<tr>
<td>Non-Residential</td>
<td>Parcels ≥ 0.5 acre</td>
<td>Parcels ≥ 0.5 acre</td>
<td>Parcels ≥ 3 acres †</td>
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<tr>
<td>Right-of-Way</td>
<td>New Impervious Area ≥ 1 acre</td>
<td>New Impervious Area ≥ 1 acre †</td>
<td>New Impervious Area ≥ 1 acre †</td>
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<tr>
<td>Open Space</td>
<td>Parcels ≥ 0.5 acre</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
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</table>

1 Site stormwater management requirements are not required for maintenance activities as defined in Appendix A.

2 Requirements are applicable when a Watershed Management Permit is required under §201 of this Ordinance.

† Where practicable.

‡ Starting the effective date of this Ordinance, any new development on the parcel that totals either individually or in the aggregate to more than one-half (0.5) of an acre.
Floodplain

- **Flood Protection Elevation**
  - \( \text{FPE} = \text{BFE} + 2 \text{ feet} \)
Green Infrastructure (GI) = Volume Control (VC) (in WMO)
WMO Volume Control Summary

• One inch of volume over total new impervious area

• Can be provided in several ways:
  – Infiltration Trenches
  – Infiltration Basins
  – Porous Pavement (storage in the voids below the pavement)
  – Bio-Retention Systems
  – Dry Wells
  – Cisterns
  – Open Channel Practices Fitted With Check Dams
  – Storage Below the Outlet of a Site Detention Facility

• Credit toward required detention volume (CN reduction)
Cross Section - Typical Volume Control System
WMO Volume Control Summary

• When providing storage in void space of aggregate, stone must be angular cut and cleaned/washed free of fines. Different aggregate sizes are acceptable.

• Underdrains are required, and must be offset at least 2” above bottom of volume control storage.

• Bottom of storage must be above groundwater level
  – 2 feet in separate sewer areas
  – 3.5 ft in combined sewer areas
  – Highest seasonal groundwater level established through soil borings

• One monitoring well per 40,000 ft² of area
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 WMO went into effect on May 1, 2014 and the District’s Board of Commissioners most recently amended the WMO on July 10, 2014. The WMO is accessible through the link below.

WMO (As amended on July 10, 2014 meeting) (7.2 MB)
WMO Comparison Documents (Compares changes from May 1, 2014 WMO to July 10, 2014 latest amendments) (6.08 MB)
Article 8: Infiltration / Inflow Control Program (Incorporated into WMO on July 10, 2014) (68.3 KB)

The District developed a Technical Guidance Manual (TGM), which will serve as a technical reference to the WMO. The TGM documents are accessible through the link below.

Technical Guidance Manual (TGM)

The District will conduct training for stakeholders to ease the transition from the Sewer Permit Ordinance to the WMO.

Training Schedule

Permit Resources:
Watershed Management Permit Flow Charts, Checklist and Forms
Permit Fees (164 KB)
Minimum Permit Submittal Checklist (194 KB)
WMO Design Calculators
WMO Modular Templates
Basic Permit Applicability Chart (525 KB)

Other Resources:
Watershed Management Ordinance: Short Summary
Authorized Municipalities
Multi-County Municipalities
MWRD WMO Website

On-line resources include:

– WMO Permit Submittal Resources and Forms
– Permit Applicability/Permit Revision Information
– Existing Development Plans List (organized by municipality)
– Authorized/Multi-County Municipalities Information
– Technical Guidance Manual (TGM)
– Presentations from various public trainings
– Training Schedule
### Title:
**New WMO Permit Cover**

### WATERSHED MANAGEMENT PERMIT

**METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO**

**100 EAST ERIE, CHICAGO, ILLINOIS, 60611**

http://www.mwrd.org

### INSTRUCTIONS FOR COMPLETING PERMIT FORM:
Submit _____ typed copies of permit application (eight pages) and any required WMO schedules listed below; do not leave any blank spaces; use “X” for checking applicable information. Also submit _____ copies of location map and plans. Submit two copies of specifications, if specifications are not part of the plan sheets. Address all correspondence to the Local Sewer Systems Section; for any inquiries or assistance, telephone (312) 731-3255.

### NAME AND LOCATION:
Name of project (as shown on plans):
Location of Project (street address or with respect to two major streets):

### Municipality (Township, if unincorporated)
Section ________ Township ___________ N, Range _________ E

- [ ] Project Information (Required in all cases) WMO Schedule A
- [ ] Sewer Summary (Required in all cases) WMO Schedule B
- [ ] Sewer Connections (Required in all cases) WMO Schedule C
- [ ] Detention & Stormwater Management Facilities (WMO) WMO Schedule D
- [ ] Detention & Stormwater Management Facilities (Legacy) WMO Schedule D
- [ ] Lift Station and/or Force Main WMO Schedule E
- [ ] Characteristics of Waste Discharge WMO Schedule F
- [ ] Treatment or Pretreatment Facilities WMO Schedule G
- [ ] Hazard Areas (Floodplain / Floodway / Riparian Areas) WMO Schedule H
- [ ] Affidavit Relative to Compliance with Art___________ WMO Schedule J
- [ ] Affidavit of Disclosure of Property Interest WMO Schedule K
- [ ] Notice of Requirements for Storm Water Detention WMO Schedule L
- [ ] Current Survey of Property Interests Exhibit A
- [ ] Olfall, Direct Connection, District Owned or Leased Property WMO Schedule O
- [ ] Erosion Control (Required in all cases) WMO Schedule P
- [ ] Recording and Maintenance WMO Schedule R
- [ ] Wetlands and Wetland Buffer Areas WMO Schedule W

1 Submittal elements required to District for qualified sewer construction, outfalls, direct connections to District facilities and development impacting District Property.

2 Submittal elements required to Authorized Municipality if development is within the corporate limits of an Authorized Municipality. Submit to District otherwise.

Note: Refer to Table 1 of § 201 of Article 2 of Watershed Management Ordinance for applicable Permitting Authority.

### OTHER DOCUMENTS:
Indicate title, number of pages and originator

### NOTE:
**ATTACH FEE PAYMENT VOUCHER AND PAYMENT IF APPLICABLE**

MWRDGC USE ONLY

Application received: _______________ WMO Permit issued: __________ WRP: __________

Issued by:  [ ] MWRDGC  [ ] Authorized Municipality

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## CN Reduction Calculator

### Site Information:

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<th>Parameter</th>
<th>Value</th>
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<tbody>
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<tr>
<td>Total Impervious Area, $A_i$ (ac)</td>
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<tr>
<td>Runoff, $R$ (in)</td>
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<td>Rainfall Depth, $P$ (in)</td>
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<tr>
<td>CN</td>
<td>78</td>
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<tr>
<td>$S$</td>
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<tr>
<td>Runoff Volume Over Watershed, $V_r$ (ac-ft)</td>
<td>4.17</td>
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### Volume of GI Provided:

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<th>Value</th>
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<tr>
<td>Control Volume, $V_c$ (ac-ft)</td>
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<tr>
<td>Additional Volume, $V_{GI}$ (ac-ft)</td>
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1" of volume over impervious area

Additional volume over the required 1"

### Adjusted Volume Over Watershed, $V_{adj} = V_r \cdot V_{GI}$

| Adjusted Volume (ac-ft) | 3.92 |

### Adjusted Runoff Over Watershed, $R_{adj} = \frac{V_{adj}}{A_s}$

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<th>Adjusted Runoff (in)</th>
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<td>$S_{adj}$</td>
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### Adjusted CN for detention calcs, $CN_{adj}$

| Adjusted CN | 75.32 |

*Blue values are entered by user*
Inflow and Infiltration (I/I) Program Update

- What is an I/I Program?
  An ongoing maintenance, operation, and rehabilitation effort to identify and remove groundwater infiltration and stormwater inflow sources from the sanitary sewer system

- MWRD New I/I Program Approved as Article 8 of the WMO
  - Approved by the MWRD Board under WMO ordinance revision on July 10, 2014

- I/I TGM Development is Ongoing
Preventing Flooding
The WMO aims to protect Cook County homes and businesses from flood damage and to protect the health and safety of the public from flood danger. It provides uniform minimum stormwater management regulations for Cook County that are in line with those in neighboring counties.

The WMO replaces the MWRD’s existing Sewer Permit Ordinance (SPO). WMO permit requirements are different from those of the SPO. See inside or visit wmo.mwr.org for more details.

How it Works
The WMO establishes rules and guidelines for development to ensure that flooding problems are not exacerbated. Permits are required for new projects (with some exemptions) as described inside.

Single Family Homes
Most single family home residential sewer service and construction is exempt from the WMO requirements. Single family homes are only regulated under the WMO if they are located in a Flood Protection Area and are exempt from the WMO stormwater regulations.

For More Information
This pamphlet is an introduction for developers to the requirements and permit process of the Metropolitan Water Reclamation District of Greater Chicago’s Watershed Management Ordinance.

For more detailed information, visit wmo.mwr.org or call the MWRD at XXX.XXX.XXXX.

Metropolitan Water Reclamation District of Greater Chicago
Board of Commissioners
Kathleen Therese Meany
President
Barbara J. McGowan
Vice President
Mariyana T. Spyropoulos
Chairman of Finance
Michael A. Alvarez
Frank Avila
Cynthia M. Santos
Debra Shore
Kari K. Steele
Patrick D. Thompson

David St. Pierre
Executive Director

WMO Informational Brochure

Printed on FSC certified paper from responsible sources
**Additional Standard Details & Notes**

- Appendix C of the TGM is being updated to include additional standard details and notes.
- The goal is to have the notes/details in digital format so they can be inserted directly on the plans.
Thank you
Questions

Dan Feltes, P.E., CFM
Daniel.Feltes@mwrdd.org

Metropolitan Water Reclamation District of Greater Chicago
100 E. Erie Street
Chicago, Illinois
Reference Slides Follow
Root Systems of Prairie Plants

The fundamental basis for encouraging use of native plant species for improved soil erosion control in streams and stormwater facilities is the fact that native plants have extensive root systems which improve the ability of the soil to infiltrate water and withstand wet or erosive conditions. Native plant species, like those listed in this guide, often have greater biomass below the surface. In this illustration, note the Kentucky Bluegrass shown on the far left, which, when compared to native grass and forb species, exhibits a shallow root system. Illustration provided by Heali Natura of the Conservation Research Institute.
• **Current Permit Schedules**
  – Schedule A – Project Summary
  – Schedule B – Sewer Summary
  – Schedule C – Sewer Connections
  – Schedule D – Detention
  – Schedule E – Lift Station / Force Main
  – Schedule F – Characteristics of Waste Discharge
  – Schedule G – Treatment / Pretreatment Facilities
  – Schedule K – Affidavit of Disclosure of Property Interests
  – Schedule L – Notice of Requirements for Stormwater Detention
  – Exhibit A – Current Survey of Property Interests

• **New/Revised Permit Schedules**
  – Schedule D – WMO and Schedule D-Legacy - Detention
  – Schedule H – Hazard Areas (Floodplain/Floodway/Riparian)
  – Schedule O – Outfalls, Direct Connections, District Property
  – Schedule P – Erosion Control
  – Schedule R – Recording and Maintenance
  – Schedule W – Wetlands and Buffer Areas
Before the MWMD can accept a Watershed Management Permit application submittal, assign it a permit application number, and initiate engineering review; the submittal must include all the items listed below. Incomplete applications will be returned, unreviewed, to the applicant.

General Submittal Requirements:

1. ☐ One (1) copy of this form, checked as appropriate

2. ☐ Four (4) copies of the Watershed Management Permit application (Cover, Schedule A, Schedule B, Schedule C, General Conditions, and Engineering Certifications, original signatures with seals)
   - Municipality’s (Permittee’s) signature on permit form (page 9)
   - Owner/developer’s (Co-permittee’s) signature on permit form (page 9)
   - Design Engineer’s signature and seal on permit form (page 8)
   - Municipal/Systems Engineer’s signature and seal on permit form (page 8)
   - Inspection Engineer’s signature and seal on permit form (page 8)

3. ☐ Two (2) copies of plan set (signed and sealed), as required to initiate review
   Note that four (4) copies of the plans will be required as part of final permit approval (2 copies + 2 original)

4. ☐ One (1) copy of Fee Payment Voucher form & a check for appropriate fees (no personal checks accepted)

5. ☐ One (1) copy of all completed detailed submittal checklists (as specific to the site and development type)

6. ☐ One (1) copy of all supporting calculations, exhibits, etc., as required by the applicable submittal checklists

If the application submittal is for a project that is on the existing development plans list, check the box below, and refer to Legacy Sewerage System Permit application information and provide appropriate legacy permit forms and checklist.

☐ Project is on existing development plans list

If you have any questions, please contact MWMD Engineering Department Permit Section at (312) 751-3255.

For reference, a typical permit schedule package might include the following specific permit schedules, in addition to the base permit application. Circle the example package used as a guide and check the applicable schedule boxes for this application:

```
Development with Stormwater Detention
☐ Schedule D: WMO (or)
☐ Schedule D: Legacy
☐ Schedule K & Exhibit A
☐ Schedule R & Exhibit R
☐ Schedule P

Sanitary Sewer Only
☐ Schedule K
☐ Schedule O (Direct) or
☐ WR only

Development with Floodplain and Wetlands
☐ Schedule D: WMO (or)
☐ Schedule D: Legacy
☐ Schedule K & Exhibit A
☐ Schedule L (if undeveloped area)
☐ Schedule II
☐ Schedule P
☐ Schedule R & Exhibit R
☐ Schedule W
```

Storm Sewer Only

☐ Schedule O (for outfall)
☐ Schedule P
## Existing Development Plans List

The Watershed Management Ordinance (WMO) allows the District to compile an Existing Development Plans List (EDPL) for proposed developments that have received preliminary approval from a governing municipality. All developments included on the EDPL may be subject to the provisions of Appendix C, Existing Development Plans List – Legacy Sewer Permit Ordinance and Manual of Procedures. A complete permit application for each development must be submitted by May 1, 2015, and must conform to the permit application requirements of Appendix C. Service System Permit forms and compliance information can be found by clicking here.

The EDPL expires on May 1, 2015. Permit Applications submitted after the May 1, 2015 expiration date must follow the requirements of the WMO. Projects that require a Service System Permit must complete construction within the three (3) year period as allowed under the conditions of the approved permit. Projects on the EDPL that do not qualify for a Service System Permit, due to their limited development scope, must be approved under a local building permit and a copy of the local permit must be provided to the District before the May 1, 2015 deadline to avoid enforcement action and ensure the requirements of the WMO do not apply. Construction of projects on the EDPL that do not qualify for a Service System Permit must commence by May 1, 2017.

Each municipality may view their list of projects accepted onto the EDPL by clicking on the hyperlinks below. For any additional questions or concerns, please call Justine Skawski at (312) 751-3261.

### Existing Development Plans List

<table>
<thead>
<tr>
<th>Municipality</th>
<th>Existing School Dist.</th>
<th>Existing School Dist. 220</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Maywood School Dist. 89</td>
</tr>
<tr>
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<td>McCook</td>
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<td>Bedford Park</td>
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</table>
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
SINGLE FAMILY HOME PERMITTING FLOWCHART

DOES THE DEVELOPMENT CONSIST SOLELY OF INTERIOR WORK?

DOES THE DEVELOPMENT INVOLVE A FOUNDATION EXPANSION OF AN EXISTING SINGLE FAMILY HOME?

DOES THE DEVELOPMENT INVOLVE THE CONSTRUCTION OF A NEW SINGLE FAMILY HOME BUILDING?

ACCORDING TO THE FEMA FIRM, DOES THE PARCEL CONTAIN MAPPED FLOODWAY?

IS THERE ANY DEVELOPMENT WITHIN 100 FEET OF A DESIGNATED RIPARIAN AREA OR WETLAND?

IS THE PROJECT DETERMINED TO BE A SUBSTANTIAL IMPROVEMENT BY THE MUNICIPALITY?

ACCORDING TO THE FEMA FIRM, IS THE PARCEL WITHIN 100 FEET OF AN “A” ZONE FLOODPLAIN?

IS THERE AN EXTENSION OF PUBLIC SEWER TO SERVE THE PARCEL?

DOES THE BUILDING CONTAIN LESS THAN 3 UNITS AND DOES IT MEET ALL REQUIREMENTS OF §702.2A?

WATERSHED MANAGEMENT PERMIT REQUIRED

PROVIDE LETTER FROM MUNICIPALITY DOCUMENTING PROJECT

NO WATERSHED MANAGEMENT PERMIT REQUIRED

WATERSHED MANAGEMENT PERMIT REQUIRED

Does not apply to single family lots subdivided after May 1, 2014 (residential subdivision), see Appendix A of the WMO for a list of defined terms
Updates to TGM

• The goal is to have an updated TGM by the end of the year.

• Updates to the TGM will be based on lessons learned from WMO submittals and feedback from consultants, WMO Advisory Committee, and other stakeholders.

• Article 8 (Infiltration/Inflow) is currently being developed.