Agenda

1. Draft WMO Development Background
2. Draft WMO Standards
3. Public Review Comments
4. Going forward
Watershed Management Ordinance

Authority to develop WMO from enabling legislation

- Public Act 93-1049
- The District can “prescribe by ordinance reasonable rules and regulations for floodplain and stormwater management”

WMO Objective

- Establish uniform, reasonable, and comprehensive countywide stormwater management regulations
WMO Stakeholder Involvement

- **Watershed Planning Councils (WPC)**
  - Membership consists of municipality Mayors/Presidents or their designee
  - District staff provided WMO status and addressed questions at WPC meetings since 2007

- **Technical Advisory Committee (TAC)**
  - 11 Meetings over 2 year span

- **Public and Private Organization Advisory Committee (PPOAC)**
  - 6 Meetings over 2 year span
WMO Development Process

- Draft WMO released on September 24, 2009
- Public review consisted of 6 Board of Commissioner Study Sessions aka Public Hearings
- Public Review concluded December 31, 2009

Letters Received

- Municipalities (66 letters)
- Private Organizations (19 letters)
- Private Citizens (24 letters)
- Unsigned (415 letters)
## Draft WMO Detention Standards

<table>
<thead>
<tr>
<th></th>
<th>Current MWRD Regulations (SPO)</th>
<th>Draft WMO</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thresholds</strong></td>
<td>5-Acre Nonresidential</td>
<td>3-Acre Nonresidential</td>
</tr>
<tr>
<td></td>
<td>10-Acre Residential</td>
<td>5-Acre Residential</td>
</tr>
<tr>
<td><strong>Combined Sewer Areas</strong></td>
<td>Detention not required</td>
<td>Detention required</td>
</tr>
<tr>
<td><strong>Release Rate</strong></td>
<td>3-Yr Undeveloped</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.15 cfs/acre</td>
<td></td>
</tr>
<tr>
<td><strong>2-Yr Release Rate</strong></td>
<td>None</td>
<td>0.04 cfs/acre</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Discharging to Waterways)</td>
</tr>
<tr>
<td></td>
<td>100Yr, 24Hr = 6.00”</td>
<td>100Yr, 24Hr = 7.58”</td>
</tr>
<tr>
<td><strong>Detention Volume Methodology</strong></td>
<td>Modified Rational</td>
<td>Hydrograph</td>
</tr>
</tbody>
</table>

**Notes:**
## Detention: How does WMO compare to collar counties?

<table>
<thead>
<tr>
<th></th>
<th>Draft WMO</th>
<th>DuPage / Kane County</th>
<th>Lake County</th>
<th>Will County</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Non-Residential</strong></td>
<td>3 acres</td>
<td>1 acre</td>
<td>1 acre new impervious area, or 3 acres hydrologically disturbed area, or</td>
<td>1 acre</td>
</tr>
<tr>
<td><strong>Threshold</strong></td>
<td></td>
<td></td>
<td>Site more than 50% impervious with greater than 0.5 acre impervious</td>
<td></td>
</tr>
<tr>
<td><strong>Residential</strong></td>
<td>5 acres</td>
<td>3 acres</td>
<td>1 acre new impervious area, or 3 acres hydrologically disturbed area, or</td>
<td>5 acres</td>
</tr>
<tr>
<td><strong>Threshold</strong></td>
<td></td>
<td></td>
<td>Site more than 50% impervious with greater than 0.5 acre impervious</td>
<td></td>
</tr>
<tr>
<td><strong>Release Rate</strong></td>
<td>Dual Release (0.04/0.15)</td>
<td>Single Release (0.10)</td>
<td>Dual Release (0.04/0.15)</td>
<td>Dual Release (0.04/015)</td>
</tr>
<tr>
<td><strong>Detention Volume</strong></td>
<td>Hydrograph</td>
<td>Hydrograph</td>
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<td>Hydrograph</td>
</tr>
<tr>
<td><strong>Rainfall Data</strong></td>
<td>Bulletin 70</td>
<td>Bulletin 70</td>
<td>Bulletin 70</td>
<td>Bulletin 70</td>
</tr>
</tbody>
</table>
WMO Proposed Standards

- **Floodplain Management**
  - *Flood Protection Elevation* = 1-ft above *Base Flood Elevation (BFE)*
  - *Proposed Compensatory Storage Ratio* = 1.1:1.0
WMO Proposed Standards

- Soil Erosion and Sediment Control
  - Based on ILR-10
  - Thresholds
    - WMO (0.5 acres)
    - ILR-10 (1.0 acre)

- Water Quality
  - Discharge to waterways
  - 1” Capture (Impervious)
  - Thresholds
    - Non-Residential ( > ½ acre parcel)
    - Residential ( > 1 acre parcel)
    - Roadway ( > 1 acre new development where practicable)
WMO Proposed Standards

- **Wetlands**
  - Regulation of Isolated Wetlands
    - Mitigation for impacts > 0.1 acres
  - Mitigation Ratios
    - High Quality (3.0 to 1.0)
    - Low Quality (1.5 to 1.0)

- **Riparian Areas**
  - Determined by Setbacks
    - IDNR Rating “A” or “B” (100 feet)
    - Jurisdictional Water of US (50 feet)
  - Mitigation for impacts to existing functional values
MWRD to administer / enforce WMO
- Follow same process SPO
- Retention of outside consultants to assist if necessary

Grandfathering only for permits issued or in process
- No exempt list

Communities REMAIN Responsible for NFIP Compliance
WMO permit required

- for all development meeting thresholds
- for all development in Resource Protection Areas affecting stormwater management
Relationship of SPO and WMO

Option 1

- Drainage and Detention requirements of WMO supersede SPO stormwater requirements
- Separate permit under SPO required if a connection to a sanitary sewer is proposed

Option 2

- Add SPO requirements related to sanitary sewers to WMO
  - One ordinance, one permit
WMO Public Review Comments

- Economic Impact Study
- Delegation of WMO enforcement
- Inundation maps
- Volume control in combined sewer areas
- Co-applicant (municipality) responsibilities concerning maintenance
- Multi-county municipalities
- Fee-in-lieu of detention
- Grandfathering
Economic Impact Study (EIS)

- Requested by Municipalities / Municipal Conferences
- Comparison of detention storage (footprint) based on issued permits
  - Current SPO detention methodology
  - SPO detention methodology with Bulletin-70 rainfall data
  - Draft WMO standards
- Comparison of DWP inundation maps with SCS floodplain maps
- Detailed detention analysis of small watershed
- 6-8 months
WMO Implementation

- EIS to be completed by fall 2010
- Determine modifications to WMO & TGM if necessary
- Present to MWRD Board of Commissioners for consideration

Training
- MWRD Staff
- Consultants

Permitting Website
- Detention calculation tool
- Interactive forms
Questions??

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