

# Municipal Advisory Committee - MEETING AGENDA

December 5th, 2018 @ 9:00 AM

Lake County Central Permit Facility

500 W. Winchester Rd., 2nd Floor, Libertyville, IL



STORMWATER MANAGEMENT COMMISSION

- I. **Introductions**
- II. **Approval of Minutes**
  - a) Approval of September 2018 Meeting Minutes
- III. **NPDES Municipal Stormwater Program**
  - a) IDDE K-9 Program (Remote Web Presentation)  
Karen Reynolds, Environmental Canine Services, LLC [45]
  - b) Pollutant Load Reduction Floating Treatment Wetlands  
Rebecca Olson, Olson Ecological Solutions, LLC [45]
  - c) Discussion for Amendment to MAC By-Laws [15]
- IV. **Ordinance Administrative Issues**
  - a) No Action
- V. **SMC/Community Working Relationships**
  - a) Des Plaines River Watershed  
Ashley Warren, SMC [15]
  - b) Community Awareness Illicit Discharge Education and Elimination Videos  
Ernesto Huaracha, SMC [10]  
Illicit Discharge Education and Elimination (English)  
(<https://lakecountyil.swagit.com/play/11012018-930/>)  
Illicit Discharge Education and Elimination (Spanish)  
(<https://lakecountyil.swagit.com/play/11012018-929/>)
- VI. **Inter-jurisdictional Programs, Projects and Grants Forum**
  - a) Inter-jurisdictional Programs - **No Action**
  - b) Projects - **No Action**
  - c) Grants Forum
    - i. **FY2019 Watershed Management Board (WMB) Grant**  
SMC received 14 project applications for FY 2019 totaling \$5,048,095 and requesting \$397,376 of WMB funds. The Annual WMB Meeting is December 5th, 2018 at which time SMC staff will make a recommendation to the WMB for approval of 6 projects requesting \$182,760 of WMB Funds. Additionally, SMC has recommended 3 projects to the SIRF program for a total of \$99,914 of SIRF funding. SMC will seek Commission approval for WMB approved and SIRF projects in January.
- VII. **Upcoming Training Opportunities, Meetings, Events**
  - a) Lake County SMC DECI Workshop, 1st Quarter 2019
- VIII. **Other Topics for Discussion**
  - a) Any MS4/NPDES related projects, awards achievements you wish to highlight and present to the Lake County community, please email [ehuaracha@lakecountyil.gov](mailto:ehuaracha@lakecountyil.gov).
  - b) If you are not receiving email notifications regarding MAC, please email [ehuaracha@lakecountyil.gov](mailto:ehuaracha@lakecountyil.gov) to be added to the digital email distribution list.

**Municipal Advisory Committee - MEETING AGENDA**  
**December 5th, 2018 @ 9:00 AM**  
**Lake County Central Permit Facility**  
**500 W. Winchester Rd., 2nd Floor, Libertyville, IL**



**STORMWATER MANAGEMENT COMMISSION**

**IX. Next Meeting**

- a) March 6, 2019
- b) 2019 Schedule

**X. Adjourn**

\*\*\*PDHs are self-reporting. If you want to apply MAC meetings towards your professional license keep the agenda and minutes w/sign in sheets.

\*\*\*MS4 Program BMP fulfillment. If you want to apply MAC meetings and education towards your MS4 Program YR16 BMP Measurable Goals, keep the agenda and minutes w/sign in sheets.

**LAKE COUNTY  
STORMWATER MANAGEMENT COMMISSION (SMC)  
MUNICIPAL ADVISORY COMMITTEE  
BY-LAWS**

**ARTICLE I - NAME**

Municipal Advisory Committee hereafter referred to as the "MAC".

**ARTICLE II - PURPOSE AND DUTIES**

The MAC shall be a collaborative coordinating body to SMC. Advisory committee actions are not instructions to SMC, but rather shall constitute suggestions or recommendations. The duties of the MAC shall be as specified below and may be modified from time to time with the advice and consent of the SMC.

- A. NPDES Issues.** Contribute to the development and implementation of annual NPDES Phase II program needs for the SMC Qualifying Local Program and Municipal Separate Storm Sewer Systems (MS4s).
- B. SMC/Community Working Relationships.** Facilitate communication and coordination between the SMC and local government partners on issues related to the SMC's projects and programs.
- C. Ordinance Administrative Issues.** Discuss Watershed Development Ordinance implementation responsibilities with certified and non-certified communities and MS4s.
- D. Interjurisdictional Programs and Projects Forum.** Serve as a forum to share information and initiate coordination on programs, projects, and regulations of interjurisdictional importance.

**ARTICLE III – MEMBERSHIP AND PROCEDURE**

Members shall consist of local government entities in Lake County that are either a certified community, non-certified community and/or MS4. Each community shall be allowed one official member representative per meeting. The MAC recommendations and actions are to be achieved by the consensus process.

**ARTICLE IV – Officers**

The chair of the SMC will appoint a Chair and Vice-Chair. The Role of the Chair is to call the meeting to order and preside over the meeting. The Vice-Chair shall assume the Chair's role if the Chair is unable to attend the MAC meeting. Appointments shall be for a period of 2 years.

**ARTICLE V - MEETINGS**

- A. The MAC shall meet at least ~~once every two months~~ two times a year. ~~More frequent meetings~~ Additional meetings may be held as the need arises.
- B. SMC Staff will report results of MAC discussion and consensus procedures to the Commission.



**STORMWATER MANAGEMENT COMMISSION**

**Municipal Advisory Committee  
2019 Meeting Schedule**

Pursuant to the Open Meetings Act, public notice is hereby given that the Lake County Stormwater Management Commission's Municipal Advisory Committee (MAC) will meet the second Wednesday of the quarterly month shown below at 9:00 a.m. at the Lake County Central Permit Facility, 2nd Floor Conference Room, 500 W. Winchester Road, Libertyville IL 60048.

**MAC**

March 6, 2019

June 5, 2019

September 11, 2019

December 4, 2019

**Executive Committee**

February 11, 2019

May 1, 2019

August 7, 2019

November 6, 2019

Meeting Minutes for Wednesday,  
September 5th, 2018

# Municipal Advisory Committee (MAC)

Meeting Minutes for Wednesday, September 5th, 2018  
Lake County Central Permit Facility, Libertyville



STORMWATER MANAGEMENT COMMISSION

Ernesto Huaracha, SMC called the meeting to order at 9:00 a.m.

- I. **Introduction – Newly elected Chair and Co-chair 2018-2020**
  - a. Erika Frable, MAC Chair, Director of Public Works/Village Engineer for the Village of Hawthorn Woods
  - b. Chris Bouchard, MAC Co-chair, Associate for RHMG Engineers, Inc.
- II. **Approval of Minutes –June 6, 2018.** Minutes approved by consensus.
- III. **NPDES Municipal Stormwater Program**
  - a. **Ernesto Huaracha of SMC presented on recent ILR40 and ILR10 permit updates.**
    - i. SMC is in the process of completing a technical review of the 8/3/2018 ILR10 permit to determine if the Lake County WDO will require amendments. The IEPA issued a permit that went back to 0.5 inches of rainfall for inspections and other updates that were mostly minor tweaks in language for clarification. The IEPA has revised the post-rain inspection threshold back to a 0.5-inch rain event. The IEPA has determined that the ILR10 permit contains requirements to design systems for larger rain events than 0.25 inches and therefore any discharges after a 0.25-inch rain event should be properly treated. The required weekly inspections will record any malfunctions, improperly installed BMPs, etc. that would lead to an unacceptable discharge after a 0.25-inch rain event and require corrective actions. The attached link has the permit with the responses to the comments attached at the end,  
<http://www.epa.illinois.gov/Assets/iepa/permits-forms-fees/storm-water/ilr10-general-permit-08-03-2018.pdf>.
    - ii. Also covered was recent conversation with the IEPA regarding Annual Facility Inspection Reports. In the General NPDES Permit No. ILR40 (Expiration Date: February 28, 2021) on Page 14 of PART V. MONITORING. RECORDKEEPING, AND REPORTING, Section C. Reporting, the directive is that “Annual Reports shall be submitted to the following office **and** email addresses: Illinois Environmental Protection Agency, Division of Water Pollution Control, Compliance Assurance Section, Municipal Annual Inspection Report, 1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 and [epa.ms4annualinsp@illinois.gov](mailto:epa.ms4annualinsp@illinois.gov)” and In the ANNUAL FACILITY INSPECTION REPORT for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4) form the directive is to “EMAIL COMPLETED FORM TO: [epa.ms4annualiosp@illinois.gov](mailto:epa.ms4annualiosp@illinois.gov) **or** Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, WATER POLLUTION CONTROL COMPLIANCE ASSURANCE SECTION #19, 1021 NORTH GRAND AVENUE EAST, POST OFFICE BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276.  
Per the IEPA Fri 6/8/2018 8:22 AM, Terri LeMasters, IEPA  
“The reports should be emailed only. I’ll make note of this to get the “and” changed. If the report is sent by mail it does not get uploaded into the system. Let me know if you have more questions.”
  - b. **Bryan Christopherson of Smart Vent Products, Inc presented on Floodplain Design, Construction, and Impacts on Flood Insurance**
    - i. Bryan highlighted flood mitigation products for wet and dry floodproofing solutions. He described some definitions of floodplain, described how hydrostatic pressure works, and the effects of lateral and vertical hydrostatic and hydrodynamic forces.
    - ii. Also discussed were the purpose of wet floodproofing and methods. Wet floodproofing must allow bi-directional relief of the flood waters regardless of the direction of flow to *passively*

## Municipal Advisory Committee (MAC)

Meeting Minutes for Wednesday, September 5th, 2018  
Lake County Central Permit Facility, Libertyville



STORMWATER MANAGEMENT COMMISSION

equalizes hydrostatic loads on enclosure walls below the BFE. Presented were acceptable and unacceptable measures per ASCE 24-14 Standards and FEMA TB-1. Engineered products should be certified through the ICC-ES program and should clearly identify on the product with a label and model number to certify coverage. Several case studies were provided.

- iii. Cost valuations can value engineer the floodproofing techniques to modify FEMA rating for coverage and rating information to gauge ROI for improvements and cost savings in flood insurance premiums.
- iv. Bryan next highlighted active and passive dry floodproofing methods. He highlighted various products and functions. Consideration for product selection should include flooding warning time, safety & access, flood velocities, depths, and debris, flooding frequency, storage consideration, deployment cost, and liability concerns. Reference documents include FEMA TB-3 and ASCE 24-14 STANDARD 6.2.3.
- v. Smart Vent has a team of Certified Floodplain Managers and Engineers that will customize any Wet and/or Dry Floodproofing solution to your residential or non-residential floodplain projects. They will make sure your project is compliant with all FEMA and NFIP Regulations, ICC Building Codes, as well as is receiving the lowest flood insurance premium possible. Flood Plans Division at Floodproofing.com will review. Send plans to: [PLANS@floodproofing.com](mailto:PLANS@floodproofing.com)

#### IV. Ordinance Administrative Issues --*No Action*

#### V. SMC/Community Working Relationships

##### a. **Juli Crane and Mike Prusila, SMC presented on the Wetland Restoration and Preservation Plan (WRAPP) program and webmap application tool.**

- i. Juli highlighted the function of the eventual online WRAPP tool once its deployed. The tool will provide a wide audience of end-users with a decision-making tool to help prioritize wetland restoration and preservation efforts. Lake County has lost significant wetlands based on pre-settlement data, approx. 50%. The tool is a resource and will not impose new development regulations, new protections for wetlands, promote or recommend land acquisition or zoning changes, nor will it replace the need for field site-specific wetland delineations.
- ii. The WRAPP development process was highlighted, including Wetland Mapping & Classification (wetland loss), 13 Wetland/Water Body Function assessments (hydrologic function, biodiversity function and water quality function), field summary, Restoration Site ID & Prioritization steps which are highlighted in the summary report and the soon to be released on-line GIS tool.
- iii. Mike highlighted the draft (unreleased) WRAPP on-line GIS decision support tool. He walked through the functionality and workflow of the online tool. The decision tool will identify polygon of existing wetlands and their classification as it pertains to the 13 Wetland/Water Body Function assessments and restorable wetlands as well. The tool is an ESRI ArcGIS online webmap application.

##### b. **Marilyn L. Sucoe, IDNR – OWR presented on her new role as the Floodplain Coordinator for NE Illinois Regulatory Program and the services they provided.**

- i. Marilyn will perform a community assistance visit, look at floodplain, determine permit violations, professional staff, permitting issue review.
- ii. A portion of Lake County communities will be reviewed this year.
- iii. Community assessment visit/consult occur generally within a maximum 10-year timeframe. A community review will also occur if a new structure post-FIRM triggers a FEMA negative rating.

# Municipal Advisory Committee (MAC)

Meeting Minutes for Wednesday, September 5th, 2018  
Lake County Central Permit Facility, Libertyville



STORMWATER MANAGEMENT COMMISSION

## VI. Inter-jurisdictional Programs, Projects and Grants Forum

- a. Inter-jurisdictional Programs **--No Action**
- b. Projects **--No Action**
- c. Grants Forum
  - i. Sharon Østerby, SMC presented on the upcoming Watershed Management Board grant period.
    - Highlights include funding priorities: First Priority: Flood Damage Reduction Secondary Priority: Water Quality Improvement, Ecosystem Restoration, or Education. Projects required by permit are not eligible.
    - Grant funding is available county wide and each of the four watersheds are allocated a percentage of the available current years fund.
    - A review of the application schedule and application point structure were discussed.

## VII. Upcoming Training Opportunities, Meetings, Events

- a. Beth Adler, Des Plaines River Watershed Workgroup presented on the upcoming Green Infrastructure Training Workshop being offered on November 7, 2018.
- b. The upcoming 10th Annual Lake County Deicing Workshops on October 1-3, 2018 was noted for sign up.

## VIII. Other Topics for Discussion

- a. If you are not receiving email notifications regarding MAC, please email [ehuaracha@lakecountyl.gov](mailto:ehuaracha@lakecountyl.gov) to be added to the digital email distribution list.
- b. If your MS4 community has any NPDES related projects, awards achievements you wish to highlight and present to the Lake County community, please email [ehuaracha@lakecountyl.gov](mailto:ehuaracha@lakecountyl.gov) to schedule a presentation.

## IX. Next Meeting

- a. MAC Meeting, December 5, 2018 at 9:00AM

## X. Adjourn

- a. Meeting adjourned at 10:40 a.m.

## 2018 Schedule:

~~General: April 4, 2018~~

General: September 5, 2018

~~General: June 6, 2018~~

General: December 5, 2018



STORMWATER MANAGEMENT COMMISSION

**Municipal Advisory Committee Meeting  
September 5, 2018**

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
1	Marilyn Suec JMSR/OWE	Marilyn.suec@illinois.gov	
2	Yamin Yamin	YAYAMIN@JACOENGINEERS.COM	
3	Beth Adler	DREW	
4	David Brown	Dave B@vhills.org	Vernon Hills
5	Joanna Collette	jscollett@mcHenryCountyIL.gov	McHenry Co
6	MIKE PRUSICA		Lake Co. SMC



STORMWATER MANAGEMENT COMMISSION

**Municipal Advisory Committee Meeting  
September 5, 2018**

	<b>Name &amp; AGENCY/GROUP</b>	<b>Email Address</b>	<b>MS4 Community</b>
<b>0</b>	<i>John Doe, Consultant Inc.</i>	<i>Ms4@worldwideweb.com</i>	<i>County/Township/City/ Village/Town/Drainage District</i>
<b>7</b>			
<b>8</b>			
<b>9</b>			
<b>10</b>			
<b>11</b>			
<b>12</b>			



STORMWATER MANAGEMENT COMMISSION

**Municipal Advisory Committee Meeting  
September 5, 2018**

	<b>Name &amp; AGENCY/GROUP</b>	<b>Email Address</b>	<b>MS4 Community</b>
<b>0</b>	<i>John Doe, Consultant Inc.</i>	<i>Ms4@worldwideweb.com</i>	<i>County/Township/City/ Village/Town/Drainage District</i>
<b>13</b>			
<b>14</b>			
<b>15</b>			
<b>16</b>			
<b>17</b>			
<b>18</b>			



STORMWATER MANAGEMENT COMMISSION

**Municipal Advisory Committee Meeting  
September 5, 2018**

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
19	Manny Gomez	gomez@cityhpil.com	Highland Park
20	Heaton Noonan	noonan@foxlake.org	Fox Lake
21	Juli Crane	crane@lacountyil.gov	—
22	Caitlin Burke	cburke@gha-engineers.com	Bannockburn
23	Marc Facchini	mfacchin@lincolnshireil.gov	Lincolnshire
24			



STORMWATER MANAGEMENT COMMISSION

**Municipal Advisory Committee Meeting  
September 5, 2018**

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
25	Chris Bouchard	cbouchard@rhmg.com	RHMG, BP, GO, WAU
26	Joe Marencik		SMC County
27	Glenn Westerman	glennwesterman@lcc.com	SMC
28			
29			
30			



STORMWATER MANAGEMENT COMMISSION

**Municipal Advisory Committee Meeting  
September 5, 2018**

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
31	MIKE WARTNER LAKE CO SMC	MWARTNER@LAKECO.IL.GOV	LAKE COUNTY
32	Erica Frethe U. of Hawthorn Woods	efrethe@uho.org	Hawthorn Woods
33	JOHN TIERNEY BAXTER & WOODMAN	JTierney@BaxterWoodman.com	Garylake, Island Lake, Round Lake Lindenhurst, Winthrop Harbor
34	ROBERT PHILLIPS DOERFFEL	rphillips@doerffeld.com	HAINESVILLE
35	GREG GRUEN HAINESVILLE/ROBINSON ENG.	ggruen@re1td.com	HAINESVILLE
36	BILL BLECKIE/MANHARD LE ZUBICH, RD LK BEACH	wbleckie@manhard.com	LAKE ZURICH, ROUND LAKE BEACH LAKE MOON



LAKE COUNTY  
STORMWATER MANAGEMENT COMMISSION

**Municipal Advisory Committee Meeting  
September 5, 2018**

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
37	Brian Frank, P&ED	bfrank@lakecountyil.gov	Lake County
38	Sharon Osterby	sosterby@lakecountyil.gov	STIC
39			
40			
41			
42			