



STORMWATER MANAGEMENT COMMISSION

**Municipal Advisory Committee**

**April 4, 2018**

**9:00 AM**

**Lake County Central Permit Facility, 500 W. Winchester Rd., 2nd Floor, Libertyville, IL**

**AGENDA**

- I. Introductions**
- II. Approval of Minutes**
- a) Approval of December 2017 Meeting Minutes
- III. NPDES Municipal Stormwater Program**
- a) NPDES Annual Reporting Template Update [5]  
*Ernesto Huaracha, LCSMC*
  - b) Upcoming Staff Training Resources - IDDE - "a grate concern" [5]  
*Ernesto Huaracha, LCSMC*
  - c) SMC MS4 Mapping Tool Update [15]  
*Ernesto Huaracha, LCSMC, <https://tinyurl.com/ycd4anl4>*
- IV. Ordinance Administrative Issues**
- i. Proposed IEPA ILR10 permit changes [10]  
*Kurt Woolford, LCSMC*
- V. SMC/Community Working Relationships**
- a) North Branch Watershed Workgroup - monitoring strategy program [15]  
*NBWW President, Brandon Janes -Village of Deerfield*
- VI. Inter-jurisdictional Programs, Projects and Grants Forum**
- a) Inter-jurisdictional Programs
    - i. No Actions
  - b) Projects
    - i. Village of Kenilworth Green Streets: combining porous asphalt and permeable parkways to reduce flooding in a combined sewer area. [50]  
*Joy Corona, Bleck Engineering and Patrick Brennan, Village of Kenilworth*
    - ii. Lake County Forest Preserve Habitat Enhancement Program [20]  
*Matthew Ueltzen, Lake County Forest Preserves*
  - c) Grants Forum
    - i. No Actions

**VII. Upcoming Training Opportunities, Meetings, Events**

- a) DECI Workshop Notification
  - i. Workshop Thursday April 5,2018 (<http://chicago.apwa.net/eventdetails/14409>)
- b) Des Plaines River Watershed Plan Presentation
  - i. Review the Draft Des Plaines River Watershed-Based Plan, April 12, 2018 @ 1 - 3 P.M.
  - ii. Review the Draft Des Plaines River Watershed-Based Plan, April 12, 2018 @ 6 - 8 P.M.

**VIII. Other Topics for Discussion**

- a) 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@lakecountyil.gov](mailto:ehuaracha@lakecountyil.gov) to schedule a presentation.
- 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.

**IX. Next Meeting**

- a) MAC Meeting, June 6, 2018 @ 9:00AM

**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.

**2018 Schedule:**

General: April 4, 2018

General: June 6, 2018

General: September 5, 2018

General: December 5,2018

**Municipal Advisory Committee**

DECEMBER 13, 2017

MEETING MINUTES (COPY ATTACHED)



STORMWATER MANAGEMENT COMMISSION

**Municipal Advisory Committee**

**December 13, 2017**

**9:00 AM**

**Lake County Central Permit Facility, 500 W. Winchester Rd., 2nd Floor, Libertyville, IL**

**AGENDA**

- I. Introductions**
- II. Approval of Minutes**
  - a) Approval of September 2017 Meeting Minutes [5]
- III. NPDES Municipal Stormwater Program**
  - a) No Actions
- IV. Ordinance Administrative Issues**
  - a) Watershed Development Ordinance Certified Community Re-Certification Update  
Kurt Woolford, SMC [10]
- V. SMC/Community Working Relationships**
  - a) Thornton Composite Reservoir: Design, Construction and Operation  
Brian E. Wawczak, MWRD [50]
  - b) Urban Stream and Wetland Restoration: Do's and Don'ts – Heritage Park/Buffalo Creek Practicum  
Tom Slowinski, V3 [30]  
Vince Mosca, Hey and Associates
- VI. Inter-jurisdictional Programs, Projects and Grants Forum**
  - a) Inter-jurisdictional Programs
    - i. Lake County Stormwater Coordinator [10]  
Mike Warner, SMC
  - b) Projects
    - i. No Actions
  - c) Grants Forum
    - i. No Actions
- VII. Upcoming Training Opportunities, Meetings, Events**
  - a) DECI Workshop Notification
    - i. 1<sup>ST</sup> QTR 2018, Date to TBD
  - b) Des Plaines Watershed Based Plan Draft Preview
    - i. 1<sup>ST</sup> QTR 2018, Date to TBD, to include morning and evening presentations

**VIII. Other Topics for Discussion**

- a) 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.
- b) 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.
- c) For Des Plaines Watershed stakeholders please submit information on your planned and/or projected future water quality improvement projects anticipated during the FY 2017-2028 ([AWarren@lakecountyl.gov](mailto:AWarren@lakecountyl.gov)).

**IX. Next Meeting**

- a) MAC Meeting, April 4, 2018 @ 9:00AM
- b) MAC Meeting, June 6, 2018 @ 9:00AM
- c) MAC Meeting, September 5, 2018 @ 9:00AM
- d) MAC Meeting, December 5, 2018 @ 9:00AM

**X. Adjourn**

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**STORMWATER MANAGEMENT COMMISSION**

**Municipal Advisory Committee Meeting Minutes  
Wednesday, December 13, 2017  
Lake County Central Permit Facility, Libertyville**

Darren Monico, Village of Buffalo Grove, SMC MAC Chair called the meeting to order at 9 a.m.

**A. Approval of Minutes –September 13, 2017.** Minutes approved by consensus.

**B. NPDES Municipal Stormwater Program**

A. No Actions

**C. Ordinance Administrative Issues**

A. Watershed Development Ordinance Certified Community Recertification Update, Scott Griffith, SMC

- 60-70% Community recertification application submittals received to date.
- Rolling approval basis, 5-10 time at a time for commission approval starting January 2018.
- Remember to include in submission, contract documents for hired consultants serving as EO or CWS.
- Any violations outstanding, provide a write up of current actions and status.
- Overall assessment of community performance 3/2012-10//06/2017 (Checklist #15).  
Recommendations for future improvements within your self- community process and any WDO future actions/improvements.

**D. SMC/Community Working Relationships**

A. Thornton Composite Reservoir: Design, Construction and Operation, Brian E. Wawczak, MWRD

- Brian E. Wawczak presented on the Thornton Composite Reservoir and overview of Tunnel Reservoir plan (TARP) program.
  - o An overview of the districts history from 1889 to today.
  - o Early Chicago 1800's cholera epidemics, sewage proximity, and lake contamination among other issues forced the city's engineers to channel and redirect drainage from Lake Michigan basin toward the Mississippi River basin.
  - o The TARP reservoirs and deep tunnel system have reduced river reversals back into Lake Michigan 1976-1985, 19 reversals; 1985-2002, 17 reversals, 2002-2013, 11 reversals
  - o Deep Tunnel captures first flush within 375 square miles, 2.3 Billion Gallons of Storage
  - o 1998Majewski Reservoir, 98% capture rate of CSO's Serves Upper Des Plaines TARP System
  - o Thornton Composite Reservoir, 7.9 BG Capacity for CSO and Flood Relief (4.8 BG CSO Flood Relief, 3.1 BG Thorn Creek Overflow), Largest CSO Facility in the World, Surface Area of Approximately 83 Acres, Measures 2,480 Feet Long and 1,580 Feet Wide, 300 Feet Deep
  - o Thornton reservoir designed for a 24-hr, 20-year rainfall event that will fill the Reservoir to the top elevation, 5% reoccurrence probability annually or approximately 5-inch rain event over a 24-hr period. Storage capacity
  - o Thornton Reservoir Benefits: Protects +182,000 Structures, serves a population of 556,000, 14 Municipalities and has an estimated \$40 Million annual flood savings.
  - o The TRAP program relieves burden for Individual Municipalities the Burden of Designing, Constructing, and Operating Separate Systems to Capture and Treat CSOs to Meet Federal and State Requirements



**STORMWATER MANAGEMENT COMMISSION**

**B. Urban Stream and Wetland Restoration: Do's and Don'ts – Heritage Park/Buffalo Creek Practicum**

- Tom Slowinski of V3 and Vince Mosca of Hey and Associates presented on Heritage Park/Buffalo Creek Basin E.
  - o The project required additional input and assessment to achieve contract and permitting performance criteria. Hey and Associates was brought into the project to perform forensics on site activity to achieve performance criteria. V3 served as advocate to owner on stormwater management activities as a function of the park function.
  - o Project impacts and issues during years 2013 through 2015
    - Initial plant installation included plugs and seed. The vegetation was limited in establishment success and additional work was needed.
    - Active creek with a lot of energy, winter shear of plant protection contributed to plant success.
    - Selected plant installation hindered development, flood plain seeded instead of plugged.
  - o Basin E has a 24 square mile drainage area in Buffalo Creek, a tributary to Des Plaines River. Observations identified Basin E receives significant backwater flooding from Des Plaines high water events. When the river water level is up 8feet Basin E can experience 18 days flooding based on high water main stem events.
  - o Recommendations included reduced plant palette to ensure stabilization and selection of durable species mix, with a lower species diversity mix versus a High C-Value diversely plant palette. The planting density was increased per square foot to increase floodplain terrace stabilization.
  - o In Summer 2017 rain events, Des Plaines River jumped 10 feet, Buffalo Creek received back water with several weeks of flooding influence. Lower diversity plant palette survived and established well during flooding and drought conditions as water retreated (July-October 2017).

**C. Inter-jurisdictional Programs, Projects and Grants Forum**

A. Inter-jurisdictional Programs

- Mike Warner, SMC presented on the upcoming SMC Request for Proposals for a Lake County Stormwater Coordinator contractor to manage the MS4 Program for Lake County government.

B. Projects - No Actions

C. Grants Forum - No Actions

**D. Upcoming Training Opportunities, Meetings, Events – The following were announced**

A. DECI Workshop Notification

- 1ST QTR 2018, Date to TBD

B. Des Plaines Watershed Based Plan Draft Preview

- 1ST QTR 2018, Date to TBD, to include morning and evening presentations

**E. Other Topics for Discussion – The following were announced**

- If you are not receiving email notifications regarding MAC, please email [ehuaracha@lakecountyiil.gov](mailto:ehuaracha@lakecountyiil.gov) to be added to the digital email distribution list.
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- For Des Plaines Watershed stakeholders please submit information on your planned and/or projected future water quality improvement projects anticipated during the FY 2017-2028 ([AWarren@lakecountyiil.gov](mailto:AWarren@lakecountyiil.gov)).



**STORMWATER MANAGEMENT COMMISSION**

**F. Next Meeting**

- MAC Meeting, April 4, 2018 @ 9:00AM
- MAC Meeting, June 6, 2018 @ 9:00AM
- MAC Meeting, September 5, 2018 @ 9:00AM
- MAC Meeting, December 5, 2018 @ 9:00AM

**G. Adjourn**

- Meeting adjourned at 10:50 a.m.



**Municipal Advisory Committee**

DECEMBER 13, 2017

SIGN-IN SHEET (COPY ATTACHED)



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**Municipal Advisory Committee Meeting  
December 13, 2017**

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
1	Ernesto Huachal, SMC		Lake County
2	Darren Monico	dmonico@vbg.org	BuAlo Grove
3	Brian Wawczak	brian.wawczak@mwrp.org <del>ms4</del>	n/a MWRP
4	Marcy Knysz	mknysz@monhad.com	Monhad
5	Chris Bouchard	cbouchard@rhmg.com	RHMG, BP, GO, WAU
6	Sharon Osterby	sosterby@lakecountyil.gov	STC



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<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>			
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<b>12</b>			



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<b>13</b>			
<b>14</b>			
<b>15</b>			
<b>16</b>			
<b>17</b>			
<b>18</b>			



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19	Bru Emmertich	bemmerich@grubbeinc.org	Mundevon
20	Brian Frank	bfrank@lakecounty.il.gov	County
21	Patty Werner	werner.patty@cof.lakecounty.il.gov	Princeton/Bearsville
22	Glen Pertha	GPertha@lakecounty.il.gov	Lake County DOT
23	Rob Phillips	rphillips@deerfield.il.us	Deerfield
24	Keelan Noonan	noonan.k@foxlake.org	Fox Lake



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0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
25	Nick Leach	nleach@village.gurnee.il.us	Gurnee
26	Ed Weskerna	Ed.Weskerna@mcHenrySWCD.org	McHenry-Lake SWCD
27	Scott Fimbach	sfimbach@VillageofRoundLakePark.com	Round Lake Park
28	STEVE BICKING	sbicking@hrg.com	ANTIOCH/HAEB
29	Caitlin Burke	cburke@gha-engineers.com	
30	GEOFF PERRY	gperry@gha-engineers.com	LONG GROVE ; OTHERS



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31	TRIKA FRABLE	efrable@ch2m.com	Dof Hawthorn Wastely
32	MIKE PRUSIA	MPRUSIA@LAKECOUNTYIL.GOV	LAKE Co. SMC
33	Scott GRIFFITH	SCGRIFFITH@LakeCountyIL.gov	SMC
34	Kelcey Traynoff	ktraynoff@lakecountyil.gov	SMC
35	FRANK J. FORLAG	FFORLAG@LAKECOUNTYIL.GOV	WATERGATE, ROCKLAND PARK
36	Tom Slowinski	tslowinski@j3co.com	—



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37	Beth Adler	DLW	
38	Darran Olson / CBBGL	dolsn@cbbel.com	Vill of Hw
39	Juli Crane / SMC	juane@lakecountyil.gov	
40	Ed Lebbos	eLebbos@boellingerlach.com	BLA/VOL
41	Vince Mosca	VMOSCA@KEYASSOC.COM	Hey & Associates, Inc.
42			