



STORMWATER MANAGEMENT COMMISSION

We hope to see you at the next TAC meeting on **Thursday, October 20, 2022** at 9:00 AM.

Meeting Topics:

- Nominations for new TAC Vice Chairman
- Site and Channel Dewatering Details
- Guidance Memo for SMC-Approved BFEs
- Discussion on Future TAC Meeting Topics

Please note: This meeting will be held in the Lake County Public Works Maintenance Conference Room located at 650 W. Winchester Rd., Libertyville.



STORMWATER MANAGEMENT COMMISSION
TECHNICAL ADVISORY COMMITTEE
AGENDA
October 20, 2022
9:00 AM – 12:00 PM

- 1.0 CALL TO ORDER
- 2.0 ADDITIONS TO THE AGENDA
- 3.0 PUBLIC COMMENT
- 4.0 STAFF REPORT
 - 4.1 Officer nominations and elections
- 5.0 APPROVAL OF THE MINUTES
 - 5.1 July 21, 2022 Minutes
Action Requested: Approval
- 6.0 OLD BUSINESS
- 7.0 NEW BUSINESS
 - 7.1 Site and Channel Dewatering Details
Action Requested: Approval
 - 7.2 Guidance Memo for SMC-Approved BFEs
Action Requested: Approval
 - 7.3 Suggestions for Future TAC Topics
Action Requested: Discussion Only
- 8.0 ADJOURNMENT

Technical Advisory Committee

<p>Kevin Kleinjan <i>(Term Expires May 2026)</i> Planning Manager LC Forest Preserve District 1899 W. Winchester Rd. Libertyville, IL 60048 Phone: 847-968-3429 Fax: 847-367-6649 Email: kkleinjan@lcfpd.org</p>	<p><u>Alternates</u> Pati Vitt Director of Natural Resources LC Forest Preserve Dist. 1899 W. Winchester Rd. Libertyville, IL 60046 Phone: 847-968-3407 Fax: 847-367-6649 Email: pvitt@lcfpd.org</p> <p>Ken Klick Restoration Ecologist LC Forest Preserve Dist. 1899 W. Winchester Rd. Libertyville, IL 60048 Phone: 847-968-3284 Fax: 847-367-6649 Email: kklick@lcfpd.org</p>	<p>Dave Kraft <i>(Term Expires May 2026)</i> Principal Civil Engineer Hey & Assoc., Inc. 26575 W. Commerce Dr., Ste. 601 Volo, IL 60073 Phone: 847-740-0888 Fax: 847-740-2888 Email: dkraft@heyassoc.com</p>	<p><u>Alternate</u> Vince Mosca Hey & Assoc., Inc. 26575 W. Commerce Dr., Ste. 601 Volo, IL 60073 Phone: 847-740-0888 Fax: 847-740-2888 Email: vmosca@heyassoc.com</p>
<p>Mike Zemaitis <i>(Term Expires May 2024)</i> Engineer of Design LC Division. of Transportation 600 Winchester Rd. Libertyville, IL 60048 Phone: 847-377-7400 Fax: 847-362-5290 Email: mzemaitis@lakecountyil.gov</p>	<p><u>Alternate</u></p>	<p>Pat Bleck <i>(Term Expires May 2024)</i> Bleck Engineering Co., Inc. 1375 Western Ave. Lake Forest, IL 60045 Phone: 847-295-5200 Fax: 847-295-7081 Email: pbleck@bleckeng.com</p>	<p><u>Alternate</u> Joy Corona Bleck Engineering Co., Inc. 1375 Western Ave. Lake Forest, IL 60045 Phone: 847-295-5200 Fax: 847-295-7081 Email: jcorona@bleckeng.com</p>
<p>Dan Strahan <i>(Term Expires May 2026)</i> Senior Engineer Gewalt Hamilton Assoc. Inc. 625 Forest Edge Dr. Vernon Hills, IL 60061 Phone: 847-478-9700 Fax: 847-478-9701 Email: dstrahan@gha-engineers.com</p>	<p><u>Alternate</u> Mei Zhu Director Gewalt Hamilton Assoc. Inc. 625 Forest Edge Dr. Vernon Hills, IL 60061 Phone: 847-478-9700 Fax: 847-478-9701 Email: mzhu@gha-engineers.com</p>	<p>Bill Heinz <i>(Term Expires May 2024)</i> Village of Grayslake 585 Berry Ave. Grayslake, IL 60030 Phone: 847-223-2323 Fax: 847-223-4821 Email: wheinz@villageofgrayslake.com</p>	<p><u>Alternate</u> Kurt Baumann Baxter & Woodman 442 N. Cedar Lake Rd. Round Lake, IL 60073 Phone: 815-444-3313 Email: baumann@baxterwoodman.com</p>
<p>Kathy Chernich <i>(Term Expires May 2024)</i> U.S. Army Corp. of Engineers 231 LaSalle St., Ste. 1500 Chicago, IL 60604 Phone: 312-846-5531 Fax: 312-353-4110 Email: Kathy.G.Chernich@usace.army.mil</p>	<p><u>Alternate</u> Kaitlyn Pascus U.S. Army Corp. of Engineers 231 LaSalle St., Ste. 1500 Chicago, IL 60604 Phone: 312-846-5533 Fax: 312-353-4110 Email: kaitlyn.a.pascus@usace.army.mil</p>	<p>Peter Manhard <i>(Term Expires May 2024)</i> Manhard Consulting One Overlook Point, Suite 290, Lincolnshire, IL 60069 Phone: 847-634-5550 Fax: 847-634-0095 Email: pmanhard@manhard.com</p>	<p><u>Alternate</u> Bill Hupperich Manhard Consulting, Ltd. One Overlook Point, Suite 290, Lincolnshire, IL 60069 Phone: 847-634-5550 Fax: 847-634-0095 Email: whupperich@manhard.com</p>

Technical Advisory Committee

<p>Don Dressel (Chairman) <i>(Term Expires May 2024)</i> Christopher Burke Engineering 9575 W. Higgins Rd., Ste. 600 Rosemont, IL 60018-4920 Phone: 847-823-0500 Fax: 847-823-0520 Email: Ddressel@cbbel.com</p>	<p><u>Alternate</u> Kay Whitlock Christopher Burke Engineering 9575 W. Higgins Rd., Ste. 600 Rosemont, IL 60018-4920 Phone: 847-823-0500 Fax: 847-823-0520 Email: kwhitlock@cbbel.com</p>	<p>Ramesh Kanapareddy <i>(Term Expires May 2024)</i> City of Highland Park 1150 Half Day Rd. Highland Park, IL 60035 Phone: 847-432-9907 Fax: 847-432-0807 Email: rkanapareddy@cityhpil.com</p>	<p><u>Alternates</u> Manny Gomez City of Highland Park 1150 Half Day Rd. Highland Park, IL 60035 Phone: 847-432-1186 Fax: 847-432-0807 Email: egomez@cityhpil.com</p> <p>Ron Milanesio City of Highland Park 1150 Half Day Rd. Highland Park, IL 60035 Phone: 847-926-1183 Fax: 847-432-9907 Email: rmlanesio@cityhpil.com</p>
<p>Eric Steffen <i>(Term Expires May 2024)</i> Operations Manager Lake County Planning Building & Development 500 W. Winchester Rd. Libertyville, IL 60048 Phone: 847-377-2109 Fax: 847-984-5853 Email: esteffen@lakecountyil.gov</p>	<p><u>Alternates</u> Joel Krause Principal Engineer Lake County Planning, Building & Development 500 W. Winchester Rd. Libertyville, IL 60048 Phone: 847-377-2087 Fax: 847-984-5853 Email: jkrause@lakecountyil.gov</p>	<p>Heather Galan <i>(Term Expires May 2024)</i> Village Engineer Village of Gurnee 325 N. O'Plaine Rd. Gurnee, IL 60031 Phone: 847-599-7582 Fax: 847-623-9475 Email: hgalan@village.gurnee.il.us</p>	<p><u>Alternates</u> Nicholas Leach Village of Gurnee 325 N. O'Plaine Rd. Gurnee, IL 60031 Phone: 847-599-7586 Fax: 847-623-9475 Email: nleach@village.gurnee.il.us</p> <p>Dave Ziegler Director of Community Development Village of Gurnee 325 N. O'Plaine Rd. Gurnee, IL 60031 Phone: 847-599-7550 Fax: 847-623-9475 Email: davidz@village.gurnee.il.us</p>
<p>Steve Zimmerman <i>(Term Expires 2024)</i> Principal Ecologist Resource Environmental Solutions, LLC 120 West Main St. West Dundee, IL 60118 Phone: 847-844-9385 Email: szimmerman@res.us</p>	<p><u>Alternates</u> Caitlin Burke Ecologist II Resource Environmental Solutions, LLC 120 West Main St. West Dundee, IL 60118 Phone: 847-772-0161 Email: cburke@res.us</p>		

TECHNICAL ADVISORY COMMITTEE
MEETING MINUTES
July 21, 2022
Lake County Stormwater Management Commission
MEETING HELD IN PERSON

1.0 CALL TO ORDER 9:06 AM

TAC Members & Alternates	Staff Present	General Public
Kevin Kleinjan	Glenn Westman	Dan Smith
Dan Strahan	Kelcey Traynoff	
Dave Kraft	Juli Crane	
Kurt Baumann	Brian Frank	
Nick Leach		
Joel Krause		
Don Dressel		
Steve Zimmerman		
Ron Milanesio		

2.0 ADDITIONS TO THE AGENDA – None

3.0 PUBLIC COMMENT – None

4.0 STAFF REPORT – Kelcey Traynoff introduced the new alternate and primary TAC members and provided an update on SMC's Operation 52. Ms. Traynoff called for nominations for the Vice Chair position for TAC. There were no nominations during the meeting and TAC agreed to table the nomination of Vice Chair to the next meeting.

5.0 APPROVAL OF THE MINUTES

5.1 Mr. Ron Milanesio moved to approve the March 17, 2022 TAC minutes. Motion was seconded by Mr. Kurt Baumann.
Vote: Approved 9-0-0

6.0 OLD BUSINESS – None

7.0 NEW BUSINESS

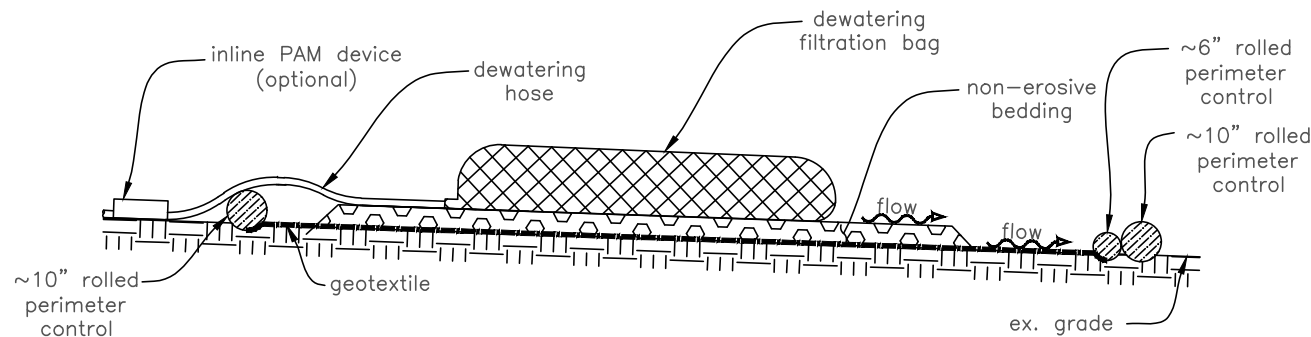
7.1 Glenn Westman began the discussion on the revisions to the Wetland Restoration Fund (WRF) implementation guidance documents and provided a brief overview of the WRF. Mr. Westman also explained that the purpose of the revisions was to make general updates to the guidance memo and update website links and dates. Mr. Westman pointed out three of the main updates: 1) The time frame for SMC staff/review team to initiate a Request for Proposal (RFP) for projects or coordinate with bankers to purchase mitigation bank credits will be increased from 60 days to 180 days, 2) Additional types of financial assurance that applicants can provide for a wetland restoration project are now allowed, and 3) The tables in the guidance document have been converted to fillable forms. There were several questions on the \$75,000 threshold for the funds and whether it has been considered to increase the threshold amount. TAC discussed viable increase amounts and Mr. Westman suggested a new threshold value amount of \$125,000, which would be about a 67% increase. Juli Crane went through each update in the guidance memo and supporting documents and explained the reasoning behind each update and revision. Mr. Steve Zimmerman moved to approve the revisions to the SMC guidance documents for the WRF with the increase in threshold to \$125,000 and additional changes to Appendix B (strikeout the word match in the Cost Summary box). Motion was seconded by Dan Strahan. Vote: Approved 9-0-0

8.0 ADJOURNMENT

Motion to end discussion and adjourn made by Mr. Dan Strahan, seconded by Mr. Dave Kraft. Meeting adjourned at 10:30AM.
Vote: Approved 9-0-0 (Unanimous voice vote).

SITE DEWATERING DETAIL (N.T.S. - NOT TO SCALE)

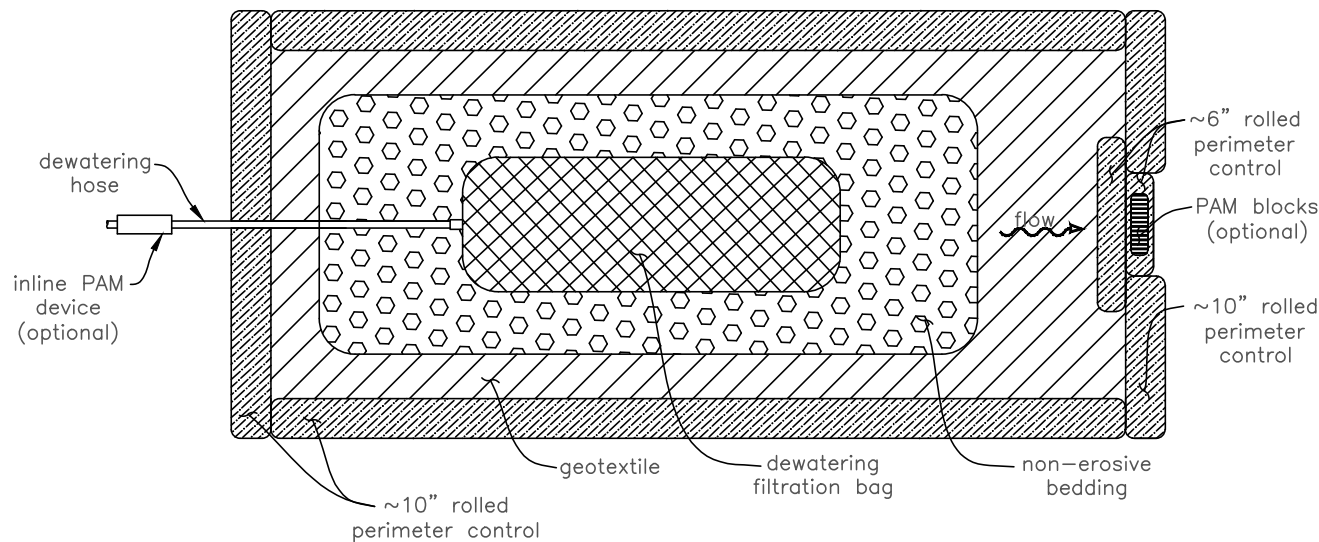
CROSS SECTION VIEW (N.T.S.)



NOTES:

- This detail is to provide general guidance on dewatering setup options. Site and project specific details, including manufacturer recommendations should be taken into consideration. Final dewatering design requires approval by the Enforcement Officer. The Enforcement Officer, or approved representative, must be present at the commencement of dewatering activities.
- Rolled Perimeter Control must be entrenched and staked in unless the product is self-bedding. [compost sock, fiber rolls, or similar]
- Dewatering bag must be monitored frequently during use, this includes checking on flow and fill capacity.
- Ensure proper overlap where rolled perimeter control ends meet.

PLAN VIEW (N.T.S.)

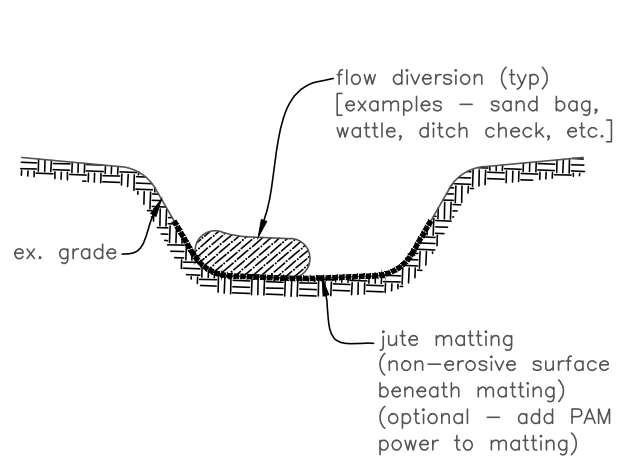


REFERENCES:

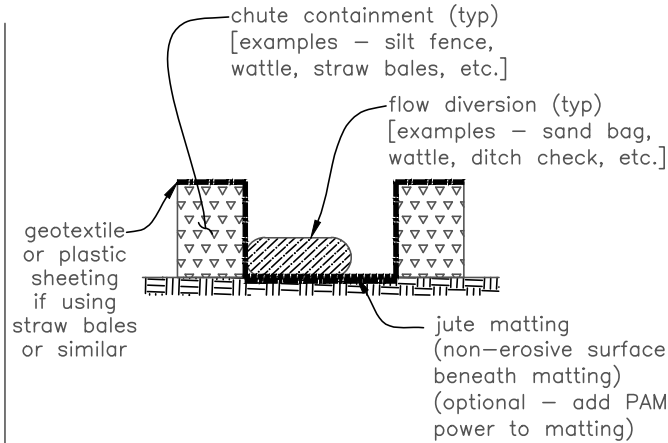
- Dewatering:
<https://illinoisurbanmanual.org/wp-content/uploads/2019/01/813-Dewatering-9-25-2018.pdf>
- PAM (polyacrylamide):
<https://illinoisurbanmanual.org/wp-content/uploads/2018/08/PAM-for-Turbidity-Reduction-and-Sediment-Control-1.pdf>
- SESC Notes:
<https://www.lakecountyl.gov/DocumentCenter/View/3415/SESC-Construction-Notes-2013-PDF>

CHANNEL DEWATERING DETAIL (N.T.S. - NOT TO SCALE)

CROSS SECTION VIEW (N.T.S.)



(Swale option)

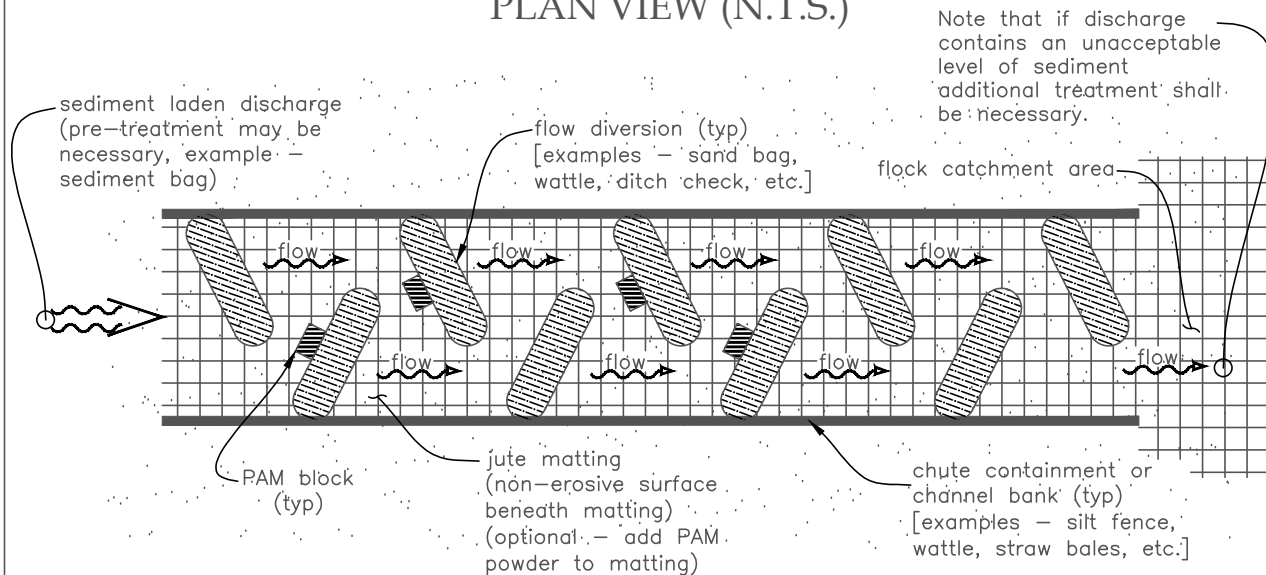


(Chute option)

NOTES:

- This detail is to provide general guidance on dewatering setup options. Site and project specific details, including manufacturer recommendations should be taken into consideration. Final dewatering design requires approval by the Enforcement Officer. The Enforcement Officer, or approved representative, must be present at the commencement of dewatering activities.
- Perimeter Control must be entrenched and staked in unless the product is self-bedding. [compost sock, fiber rolls, or similar]
- Dewatering bag must be monitored frequently during use, this includes checking on flow and fill capacity.
- Ensure proper overlap where rolled perimeter control ends meet.

PLAN VIEW (N.T.S.)



REFERENCES:

- Dewatering:
<https://illinoisurbanmanual.org/wp-content/uploads/2019/01/813-Dewatering-9-25-2018.pdf>
- PAM (polyacrylamide):
<https://illinoisurbanmanual.org/wp-content/uploads/2018/08/PAM-for-Turbidity-Reduction-and-Sediment-Control-1.pdf>
- SESC Notes:
<https://www.lakecountyl.gov/DocumentCenter/View/3415/SESC-Construction-Notes-2013-PDF>



DRAFT

STORMWATER MANAGEMENT COMMISSION

DRAFT - REGULATORY GUIDANCE MEMORANDUM #2022-02

September 22, 2022

To: Lake County Enforcement Officers (EO) and Other Interested Parties
From: Brian Frank, Chief Engineer, Lake County Stormwater Management Commission (SMC)
Subject: SMC Guidance on SMC approved Base Flood Elevation (BFE) determinations Lake County, Illinois

This guidance memorandum supersedes all previous guidance memoranda issued by the SMC regarding Base Flood Elevation Determinations in Lake County, Illinois.

The Regulatory Floodplain (Floodplain) areas throughout Lake County Illinois have been determined in a variety of ways. A majority of the County’s Floodplains are a part of Federal Emergency Management Agency’s (FEMA) approved detailed studies as can be found in the Lake County FEMA Flood Insurance Study (FIS). There are also Lake County Stormwater Management Commission (SMC) Floodstudies that have gone through a detailed process and have been approved. This Memorandum does not address FEMA or SMC approved Floodstudies.

Base Flood Elevation (BFE) determinations per Section 700.02 of the Lake County Watershed Development Ordinance (WDO) are the focal point of this Memorandum. Specifically, BFE determinations that have been approved by SMC prior to the current use of the regulatory Rainfall Depth Duration Frequency Tables of Lake County as provided in the Illinois State Water Survey (ISWS) Bulletin 75 Precipitation Frequency Study for Illinois (refer to Appendix I of the WDO for additional information).

Previously approved BFE determinations that required SMC approval, per the WDO, need to be approved in writing (email or letter) from SMC for use on any project moving forward. The use of these previously approved BFEs will be on a case-by-case basis. The decision to allow the use of these BFE determinations shall be based on how the BFE was determined along with the details of the proposed project. Adequate information will need to be provided to allow SMC to determine if the use of the previously approved BFE will likely result in a project that is reasonably safe from flooding. Please note that if the project is within the regulatory authority of a Certified Community, as defined in the WDO, the Enforcement Officer (EO) may choose to not allow the continued use of the previously approved BFE (Communities can be more restrictive).

Given the increase in the regulatory rainfall data, BFEs that discharge via a relatively small outlet may no longer be adequate to use moving forward. On the contrary, BFEs that have a relatively large spillway outlet might not be noticeably affected by the increased rainfall.

The other key aspect of this BFE decision is regarding the details of the proposed project in terms of its floodplain impacts and flood risks. If there is a considerable amount of floodplain impacts (required compensatory storage) or a lack of additional freeboard, there will be increased concern over the accuracy of the previously approved BFE. On the contrary, if there is minimal floodplain impacts and/or there is an abundance of freeboard, the level of concern with the BFE accuracy will be diminished.