



STORMWATER MANAGEMENT COMMISSION

We hope to see you at the next TAC meeting on **Thursday, January 16, 2020** at 9:00 AM.

The meeting will be held at:

Lake County Central Permit Facility
500 W. Winchester
Second Floor - Large Conference Room
Libertyville, IL 60048

Meeting Topics:

- WDO amendment #3 and #16
- Fee-In-Lieu of Storage above 50-Year Detention Volume Program



STORMWATER MANAGEMENT COMMISSION

**TECHNICAL ADVISORY COMMITTEE
AGENDA**

January 16, 2020

9:00 AM – 12:00 PM

500 W. Winchester, Libertyville, Illinois



- 1.0 CALL TO ORDER
- 2.0 ADDITIONS TO THE AGENDA
- 3.0 PUBLIC COMMENT
- 4.0 STAFF REPORT
 - 4.1 Welcome Steve Zimmerman – New TAC Member
- 5.0 APPROVAL OF THE MINUTES
 - 5.1 December 19, 2019 Minutes
Action Requested: APPROVAL
- 6.0 OLD BUSINESS
 - 6.1 Program for Fee-In-Lieu Option For Storage above 50-year, 24-hour (FIL50) Detention Volume
Action Requested: APPROVAL
 - 6.2 WDO Amendment #3 – 509.04 Fee-In-Lieu Option For Storage above 50-year, 24-hour Detention Volume [7.5”]
Action Requested: APPROVAL
- 7.0 NEW BUSINESS
 - 7.1 WDO Amendment #16 – 201.02 FIL50 Community Certification
Action Requested: APPROVAL
- 8.0 ADJOURNMENT

Technical Advisory Committee

<p>James Anderson (Term Expires May 2020) Director of Natural Resources LC Forest Preserve District 1899 W. Winchester Rd. Libertyville, IL 60048 Phone: 847-968-3282 Fax: 847-367-6649 Email: janderson@lcfpd.org</p>	<p><u>Alternates</u> John Nelson Director of Operations & Infrastructure LC Forest Preserve Dist. 19808 W. Grand Avenue. Lindenhurst, IL 60046 Phone: 847-968-3407 Fax: 847-367-6649 Email: jnelson@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>Tom Polzin (Vice Chairman) (Term Expires May 2020) Hey & Assoc., Inc. 26575 W. Commerce Dr., Ste. 601 Volo, IL 60073 Phone: 847-740-0888 Fax: 847-740-2888 Email: tpolzin@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 (Term Expires May 2020) 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> AI Giertych Assist. County Engineer LC Division of Transportation 600 Winchester Rd. Libertyville, IL 60048 Phone: 847-377-7400 Fax: 847-362-5290 Email: agiertych@lakecountyil.gov</p>	<p>Pat Bleck (Term Expires May 2020) 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>Patrick Glenn (Term Expires May 2020) Senior Engineer Gewalt Hamilton Assoc. Inc. 625 Forest Edge Dr. Vernon Hills, IL 60061 Phone: 847-478-9700 Fax: 847-478-9701 Email: pglenn@gha-engineers.com</p>	<p><u>Alternate</u> Mei Zhu Senior Engineer 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 (Term Expires May 2020) 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 (Term Expires May 2020) 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 (Term Expires May 2020) 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 2020)</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>Alternates</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>Scott Griffith Christopher Burke Engineering 9575 W. Higgins Rd., Ste. 600 Rosemont, IL 60018-4920 Phone: 847-823-0500 Fax: 847-823-0520 Email: sgriffith@cbbel.com</p>	<p>Ramesh Kanapareddy <i>(Term Expires May 2020)</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>Alternate</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>Eric Steffen <i>(Term Expires May 2020)</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> Brian Frank Principal Engineer Lake County Planning, Building & Development 500 W. Winchester Rd. Libertyville, IL 60048 Phone: 847-377-2086 Fax: 847-984-5853 Email: bfrank@lakecountyil.gov</p> <p>Joel Krause Senior Engineer Lake County Planning, Building & Development 500 W. Winchester Rd. Libertyville, IL 60048 Phone: Fax: 847-984-5853 Email: jkrause@lakecountyil.gov</p>	<p>Heather Galan <i>(Term Expires May 2020)</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> Senior Ecologist Applied Ecological Service, Inc. 120 West Main St. West Dundee, IL 60118 Phone: 847-844-9385 Email: stevez@appliedeco.com</p>			

TECHNICAL ADVISORY COMMITTEE
MEETING MINUTES
December 19, 2019
Lake County Stormwater Management Commission
500 W. Winchester, Libertyville, IL

1.0 CALL TO ORDER 9:07 AM

TAC Members & Alternates	Staff Present	General Public
Ramesh Kanapareddy-left at 11:02 am	Mike Warner	Scott Griffith
Don Dressel	Kurt Woolford	Monika Jalowiecka
Kathy Chernich	Kelcey Traynoff	Ed Lebbos
Mei Zhu		
Heather Galan		
Kurt Baumann		
Tom Polzin		
Joy Corona - arrived at 9:18am		
Bill Hupperich		
Jim Anderson		
Brian Frank		
Mike Zemaitis		

2.0 ADDITIONS TO THE AGENDA – None

3.0 PUBLIC COMMENT- None

4.0 STAFF REPORT-

4.1 Mr. Kurt Woolford briefly presented and discussed the 2020 schedule for TAC.

4.2 Mr. Woolford discussed ISWS releasing the second report of the updated Bulletin 70. The Huff distributions are not significantly different from the current ones, but the increments will be changing. The rainfall data tables are included in the report along with an expansion on frequency and duration within the tables.

5.0 APPROVAL OF THE MINUTES

5.1 Mr. Tom Polzin moved to approve the November 21, 2019 TAC minutes, as modified, to identify Jim Anderson and Kathy Chernich as the TAC members who did not support the approved program goal. Their vote would have been affirmative if the goal limited the expenditure of collected fees to provide a volumetric mitigation requirement. Motion seconded by Ms. Mei Zhu.

Vote: Approved 10-0-1 (Abstain: Zemaitis)

6.0 OLD BUSINESS

6.1 The program for Fee-In-Lieu for Storage above 50-year, 24-hour Detention Volume (FIL50) was discussed and edited during the meeting. Mr. Woolford went through the suggested changes made to the program's Policies and Procedures during November's TAC meeting. The program's Compliance Criteria, Request for Project Proposals, Project Rating and Prioritization Criteria, and Project Damage Evaluation Matrix were also presented and discussed.

6.2 The use of FIL50 program funds for flood mitigation projects was discussed in detail and three options were decided on: 1. keep the funds within the 26 subwatersheds, 2. use a scoring adjustment factor based on the 26 subwatershed, or 3. keep the policy, regarding the funds in the four primary watersheds, as written. A straw poll was taken, and the vote was 0-9-3, respectively for each option.

6.3 After much discussion and consideration, Staff was provided guidance to bring back updated program language, spreadsheet, and a 3rd certification option for Communities to administer the program within their jurisdictions.

7.0 NEW BUSINESS – None

8.0 ADJOURNMENT

Motion to end discussion and adjourn by Mr. Jim Anderson, seconded by Mr. Tom Polzin. Meeting adjourned at 12:04 PM. Vote: Approved 11-0-0 (unanimous)

POLICIES AND PROCEDURES

Fee-In-Lieu of Storage Above 50-Year, 24-Hour Detention Volume Program (FIL50)

Lake County Stormwater Management Commission

Approved

Xxxxxxx, xx, 2020

POLICIES AND PROCEDURES

Fee-In-Lieu of Storage Above 50-Year, 24-Hour Detention Volume Program (FIL50)

These Policies and Procedures provide general guidance on administration and project eligibility for the FIL50 Program of the Lake County Stormwater Management Commission (SMC). The Watershed Development Ordinance (WDO) 509.04 [proposed amendment] sets countywide minimum requirements for Fee-In-Lieu of Storage Above 50-Year, 24-Hour Detention Volume (FIL50) program. The FIL50 program is administered and implemented as an option for development permitted after [NEW WDO DATE] in accordance with the WDO.

PURPOSE

The purpose of the FIL50 is to collect development fees and disperse funds to resolve local, inter-jurisdictional, and regional drainage and flooding related problems. The program's goal is to reduce protect existing buildings from flood damages to the greatest extent possible with an emphasis on existing buildings and infrastructure. The FIL50 program is optional and may only be used in communities that have adopted WDO 509.04. A Community desiring to administer the FIL50 program for development under its respective permit authority may submit a certification petition to the SMC in accordance with WDO 201.02.

ADMINISTRATION

- A. Storage Requirement: The required detention volume shall be calculated for the 100-year, 24-hour storm event. The FIL50 program may only be used for the required volume above the 50-year, 24-hour storm event.
- B. Calculation of FIL50 Fees: The minimum fee will be set by SMC as a fee per acre-foot or part thereof for the volume difference between the required and approved design storage. The fee will be included on SMC's fee schedule and will be valid until the fee schedule is modified or changed by SMC. The fee will be calculated using at least 110% of the estimated administrative, planning, engineering, cost of construction, monitoring and maintenance costs and watershed land values.
- C. WDO Review Process:
 1. **Non-Certified Communities**: Upon written request by the applicant, as part of the review process, the SMC Chief Engineer will verify the volume difference between the required and approved design storage and inform the applicant of the required fee-in-lieu volume. All required fees, including applicable permit review fees and fee in-lieu payment, will be due to SMC prior to final authorization.
 2. **Standard and Isolated Wetland Certified Communities**: Upon written request by the applicant, as part of the review process, the Enforcement Officer will verify the volume difference between the required and approved design storage and inform the applicant of the required fee-in-lieu volume. The Enforcement Officer will then provide SMC with the approved fee-in-lieu volume and applicant contact information. SMC will inform the Certified Community with written acceptance once SMC receives the fee-in-lieu payment. The Certified Community can then issue the required Watershed Development Permit.
 3. **FIL50 Certified Communities**: Upon written request by the applicant, as part of the review process, the Enforcement Officer will verify the volume difference between the required and approved design storage and inform the applicant of the required fee-in-lieu volume. All required fees, including applicable permit review fees and fee in-lieu payment, will be due to FIL50 Certified Community in accordance with the Community ordinance and procedures, as approved by SMC [WDO 201.02.J].

Separate FIL50 fund accounts will be established for each watershed and will be formatted to track payment deposits and disbursements. Fee-in-lieu payments shall be collected and deposited ~~by SMC~~ into the applicable account for the watershed where the impact occurs.

- D. ~~Fund expenditures for~~ FIL50 ~~projects shall be~~ administered by SMC staff ~~and all fund expenditures~~ shall be approved by the Commission at a SMC meeting. Funds shall be expended to resolve local, inter-jurisdictional, and regional drainage and flooding related problems in the same watershed where the impacts occurred. Funds in each watershed account shall be expended annually, to the extent possible, unless the account has less than \$75,000 unencumbered funds. Projects shall benefit communities and sub-watersheds where FIL50 fees were received, to the extent possible. Appropriate expenditures include costs to ~~administer, plan, design,~~ construct, improve, and acquire property, ~~maintain and monitor drainage improvement sites.~~ Funds shall not be used to reimburse project expenses incurred prior to Commission approval. Upon project approval, SMC will deduct a 10% administrative and project management fee from the watershed-specific account balance.
- E. An annual report prepared by SMC staff and FIL50 Certified Communities summarizing fee-in-lieu payments received, projects status and benefits, categorized by watershed and municipality, will be provided to SMC.
- F. FIL50 is intended as a cost share match program although it is recognized that some high-priority flood mitigation problems may not have funding match capability from project partners. Reference the Environmental Justice Area criteria as described in K below and in the Project Rating and Prioritization Criteria. Funding match can be from any funding source outside FIL50 itself. For example, project partner match can be from a grant source, local units of government, homeowners' associations and individual resident contributions.
- G. Benefited property owners should contribute some type of remuneration to the project, either land value of easements needed, cash or in-kind services if appropriate, which can be applied to cost share requirement. FIL50 funding will not pay for any easements, deed or plat restrictions, necessary to implement the project on property that is benefiting from the project.
- H. The project agreement may be made directly to the project partner if it is an incorporated entity (e.g., municipality, not-for-profit, HOA). If the project partner is not incorporated, the project agreement, if necessary, shall be approved and executed with a local government or agency that is an active participant in the project.
- I. Project partner shall provide evidence, if requested, that the project partner has an existing fiscal system in place to track and administer funds. Awardees will also be required to sign a project agreement and submit a final project report.
- J. To account for Environmental Justice area income disparity, a project cost adjusting factor, the Environmental Justice Multiplier (EJM), is applied to the evaluation process on a project specific basis.

PROJECT COMPLIANCE CRITERIA

The following requirements shall provide basis for project compliance with the FIL50 program.

1. Identify one or more clearly defined stormwater infrastructure problems that the project will address.
2. Produce a clear work plan, which describes the tasks to be accomplished, end results, method for evaluating the effects of the project, products to be completed and the time frame to accomplish.
3. All requests for resources shall result in the implementation of in-the-ground projects, although funding request may be in the categories of planning, engineering analysis, alternate solution evaluation, design, capital construction, maintenance and repairs and property acquisition. Projects required as part of a regulatory permit are not eligible for FIL50 funding. Projects located within FIL50 Certified Communities are ineligible for SMC-administered FIL50 funding. Variances to this may be warranted due to unique circumstances.
4. Project partners may provide cost-share with cash contribution, in-kind or professional services, property donation value or a combination of these. Several project partners could combine resources to provide project match or propose other funding sources to meet the cost share requirement.
5. Municipalities requesting FIL50 funds as a project partner shall be in good standing with the National Flood Insurance Program and comply with SMC policies.
6. The project shall comply with or be consistent with the Watershed Development Ordinance (WDO), applicable watershed plans, and all regulations, laws and statutes.
7. Approval and execution of project agreements are limited to FIL50 funds and SMC staff capacity not currently encumbered by workplan commitments or prior executed project agreements.
8. "Land Rights" - For all properties where in-the-ground construction will or may occur, the project partner shall provide evidence in the form of previously recorded documentation or written authorization, from all property owners affected. Documentation or authorization may include, WDO defined 'deed or plat restrictions', or prescriptive easement (with Owner's authorization or evidence of local government authority); or other Owner-approved and SMC accepted legal instruments (e.g., Owner-executed License Agreement). Work within public road rights-of-way shall not be performed without appropriate permits or authorization from the jurisdictional Road Authority.
9. Project Audit: SMC may audit any project for; completeness of FIL50 funded work products or deliverables, adherence to agreed schedules or extensions, and appropriateness of FIL50 fund expenditures. Incomplete work products or deliverables, delays beyond agreed deadlines and expenditures of funds that do not achieve agreed deliverables may result in forfeiture of grant funding pursuant to the executed project agreement or a determination of ineligibility for the applicant, project manager or project consultant to apply for future grants.

FIL50 REQUEST FOR PROJECT PROPOSALS

1. SMC Staff shall initiate a request for project proposals in August of each year. Projects will be evaluated and accompanied by staff recommendations. A minimum project damage point calculation is required for a project to be considered for funding and a minimum protection level attained by project implementation is the 10-year critical duration storm event. An exception is allowed for a one-time expenditure for emergency services per project area that is in conjunction with the permanent project measures.
2. SMC Staff will make project recommendations to the Commission for their final approval in accordance with the Project Rating and Prioritization Criteria.
3. SMC Staff will review the proposals considering FIL50 fund availability, staff capacity and compliance criteria. After consulting with the project partner for any additional information, SMC staff will perform a project evaluation and develop a written staff recommendation.
4. The proposal, project evaluation, summary information and recommendations will be included in the SMC agenda packet along with an invitation to the project partner to attend the meeting. SMC staff shall fulfill requests for additional information as they arise on an individual basis.
5. SMC staff will present the request, evaluation results, recommendation and rationale. The project partner may expand on this presentation. A project partner representative is recommended to attend the meeting to address questions that may arise by the SMC. A comment, question and answer, and discussion period shall be facilitated by the SMC Chair.
6. After a motion, second and any further discussion, an SMC roll call vote will be taken to authorize, not authorize, authorize with revisions or conditions added to the staff recommendations, or defer action until a following meeting.
7. Commission approval of the recommended proposal does not constitute a project agreement and does not authorize expenditure of any reimbursable expenses. Project proposals that receive Commission approval and do not execute a project agreement the same fiscal year, shall be placed on inactive status (i.e., not under consideration for available funding).
8. SMC staff will work with the project partner to ensure that all remaining project compliance criteria has been met before bringing the project back to the Commission for approval and execution of the Project Agreement.
9. SMC staff shall prepare the project agreement with the project partners for the disposition of approved, available funds and staff commitments. All project agreements must be approved and executed at a subsequent SMC board meeting unless the project agreement is approved and executed by the Commission along with the recommended project proposal.
10. Only project expenses incurred after Commission approval and execution of the project agreement can be reimbursed.
11. It is recognized that specific beneficial projects meeting policy criteria may become readied for implementation and that status may be factored into Commission decisions on implementation of project agreements.

PROJECT RATING AND PRIORITIZATION CRITERIA

The following shall be considered by SMC staff in the development and prioritization of the staff recommendation for each watershed.

1. The FIL50 Project Rating and Prioritization Criteria will be used to evaluate the severity and frequency of several flood damage categories. The outcome of the evaluation uses weighted flood damage point categories that are totaled to produce Project Damage Points.
2. Project Effectiveness is determined by dividing the estimated FIL50 component of the Project Cost by the Project Damage Points. A sub-watershed adjustment factor is applied to provide a higher rank for projects within sub-watersheds where FIL50 fees were received. The project with the lowest number represents the most cost-effective use of funding rank and higher priority.
3. Project can achieve a lower Project Effectiveness score through cooperative intergovernmental arrangements that lower the estimated FIL50 project expense. Therefore, communities would provide land or, funds, assume operation and maintenance responsibilities, etc. to reduce FIL50 project costs and a resultant higher priority.
4. The estimated project cost includes engineering, land acquisition and, construction, and capitalized operation and maintenance costs.
5. Maintenance of sStormwater maintenance projects not originally implemented by the SMC will not be considered for a project, unless it will a project could upgrade the existing system to alleviate or prevent flood damages.
6. The Environmental Justice Multiplier (EJM) is determined as the complementary percentage of the Low-Income Percent (Equals 1 minus the 'Low Income Percentage' expressed as a decimal value). This data component is within the metadata of the Environmental Justice Areas as defined by the IL EPA and can be determined at any county location by clicking on the GIS map (SMC EJ Map). The weighted average of the EJM for the area benefitting from the project, is then applied to the estimated FIL50 project cost to reduce that value, which thereby increases the project priority.

Project Damage Evaluation ~~Matrix~~

Flood problem areas will be evaluated and assigned Project Damage Points using the attached Project Damage Evaluation Matrix. The flood occurrences for each property or road in the 10 years preceding the evaluation will be used in the calculation and based upon the best available information. Projects must receive a minimum score of 500 Project Damage Points to qualify for FIL50 funding.

Primary Property Damages are considered to be flood impacted residential and commercial principal buildings and non-roadway ~~publicly owned~~ infrastructure providing a public benefit. Each principal building, dwelling unit, or infrastructure component is counted once. No additional points will be given for secondary property or nuisance flood damage on a property that claims primary property damage.

Disruption of Revenue/Business are considered for each business, and groups of employees in multiples of 10, that cannot operate due to flooding, including flooded parking lots. Each business, or employee group of 10 that is disrupted is counted as '1' and this value can be added to primary property damage.

Secondary Property Damages are considered to be detached garages, sheds, water body bank erosion with severe or higher rating, landscaping, ~~cars~~, nature preserves, Health/safety (septic systems, wells). Each secondary damage type can be added and accumulated per parcel (e.g. 1 garage, 1 well, 1 septic =3). No additional points will be given for nuisance flood damage on a property that claims secondary property damage.

Primary Road* Damages are given to structural or traffic impacts and lane closures to roads classified as Interstate, Freeway/Expressway, Other Principal Arterials, Minor Arterials, Major and Minor collectors (e.g. state, county, township, municipal). Each roadway impacted is counted once.

PRD Multiplication Factor – This numeric value is developed from traffic count information using the average of ADT values for primary roads at the location impacted by flooding and is a multiplier to the weight factor category for roads to recognize the disruption of roadway users for differing level of users of the road system. Using the IDOT ADT Database, for example, Washington Street has an Average Daily Traffic (ADT) count of 27,900 and IL Route 120 has a count of 27,900, which are both higher than the current countywide average ADT of 12,000 (2018) for primary roads. The PRDMF = $((27,900+27,900/2) \div 12,000) = 2.33$. Total Primary Road Damage Weight Factor = $30 \times 2.33 = 69.9$. For locations with ADT's less than the average the multiplier default is 1.0.

Secondary Road* Damages are given to all Local Roads and Streets not classified as a Primary Road; for example, neighborhood/subdivision/private local roads and streets. Each roadway impacted is counted once.

Nuisance Flooding Damages – parcels ~~that are~~ flooded that and affect ~~the~~ aesthetics or results in minor ponding. Each parcel impacted is counted once.

*Road classifications are as defined in the CMAP Roadway Functional Classification Revision Workbook (August 2019)

WDO AMENDMENTS FOR TAC – January 16, 2019

WDO Amendment #3 - NEW

§ 509.04 Fee-In-Lieu Option For Storage above 50-year, 24-hour Detention Volume [7.5”]

- 509.04** *The following fee-in-lieu of on-site stormwater storage procedures shall be authorized for all developments permitted after [NEW WDO DATE].*
- A. *The **Enforcement Officer** may require, or the **applicant** may submit, a written request for the payment of a **fee-in-lieu of on-site stormwater storage** to fulfill all or part of the on-site detention requirement above the 50-year, 24-hour detention volume using Appendix I: Rainfall Depth Duration Frequency Tables for Lake County. A request for fee-in-lieu of on-site stormwater storage shall be either rejected or approved within forty-five (45) days of the written request unless additional engineering studies are required.*
 - B. *Approval of a request for **fee-in-lieu of on-site stormwater storage** on a **development** site above the 50-year, 24-hour detention volume shall be determined by the **Enforcement Officer**.*
 - C. *The 50-year, 24-hour detention volume shall be calculated using a rating curve with a maximum release rate not exceeding the 100 Year value listed in Appendix J: Watershed Specific Release Rates. For tributary drainage areas less than one hundred (100) acres, Appendix K: Detention Volume Versus **Curve Number Percent Impervious** may also be used, when appropriate and upon approval of the Enforcement Officer, for determination of detention storage requirements.*
 - D. ***Fee-in-lieu of on-site stormwater storage** shall be the fee computed for each acre-foot or cubic yard or part thereof of stormwater storage approved in accordance with the procedures and schedules as approved by the SMC.*
 - E. *A fund will be maintained by the SMC for each of the four major Lake County **watersheds** for the purpose of identifying and controlling all revenues and expenditures resulting from fee-in-lieu of on-site stormwater storage approvals. All **fee-in-lieu of on-site stormwater storage** revenues received from each **watershed** shall be deposited in these funds for use within that watershed. **FIL50 Certified Communities will collect revenues and manage funds for projects under its respective permit authority in accordance with its Community ordinance and procedures, as approved by SMC [WDO 201.02.J].***

- F. **The following requirements must be met before a fee-in-lieu of on-site stormwater storage will be approved:**
1. **The downstream stormwater management system has “adequate downstream stormwater capacity” (see Appendix A: Definitions); and**
 2. **The SMC has an adopted fee-in-lieu of on-site stormwater storage program.**
 3. **The FIL50 Certified Community has an adopted fee-in-lieu of on-site stormwater storage program, approved by SMC.**
- G. **Fee-in-lieu of on-site stormwater storage revenues may be used to ~~plan,~~ **design, or construct an upgrade to existing or future stormwater management systems if the upgrade is consistent with a basin plan, floodplain study, or stormwater system improvement that has been approved by the SMC.****

Purpose: Provide fee-in-lieu option, as determined by the Enforcement Officer. Communities may be more restrictive and omit this option during Community Ordinance adoption.

TAC Vote: 9/19 unanimous consent to draft Program for TAC review. 11/19 discussion to specify which release rate to use to determine 50-year volume. 12/19 discussion to allow 3rd certification option for communities to administer this program.

WDO Amendment #16

§ 201.02. Community Certification Process

- A. Communities desiring certification may submit a letter of intent to petition for Certification.
- B. A petition for Standard Certification, ~~or for~~ Isolated Wetland Certification, or FIL50 Certification shall be submitted to the SMC indicating how the community meets the criteria for certification. A copy of the community’s adopted ordinance shall be included with the petition.
- ...
- J. Fee-in-lieu of detention ordinances and procedures used by FIL50 Certified Communities shall be reviewed and approved by the SMC as part of the regular certification process.
- ...
- M. Communities with FIL50 Certification may administer WDO 509.04 for development under its respective permit authority.

Purpose: Create a new certification for Communities to administer FIL50 program. Note: WDO Variance section and Appendix E: Enforcement Officer Duties will need updating.

TAC Vote: