



**STORMWATER UTILITY FEE  
ADVISORY COMMITTEE  
City of Champaign, Illinois**

TO: Stormwater Utility Fee Advisory Committee

FROM: Vic McIntosh, Chair

DATE: November 3, 2010

SUBJECT: NOTICE OF MEETING

The Stormwater Utility Fee Advisory Committee will meet on Monday, November 8, 2010, at 4 p.m. in the City of Champaign Council Chambers, 102 North Neil Street, 61820.

**AGENDA**

1. Minutes (October 11, 2010)
2. Member Inquiries / Staff Follow-up
3. Champaign's Existing Stormwater Management Program – Part 2
4. Stormwater Utility Fee
5. Public Participation
6. Next Meeting
7. Adjourn

The City of Champaign strives to ensure that its programs, services and activities are accessible to individuals with disabilities. If you are planning on attending this meeting and would like to request special accommodations, please contact the Public Works Department at 217/403-4700 at least 72 hours prior to the start of the meeting with your specific request.

**Survey Form  
Existing (Budgeted) Expenditures  
Stormwater Fund**

Listed below are the major stormwater expenditure categories and activities currently completed by the City. Please rate each activity. The ratings will be used to determine if the City is spending dollars on the highest priority stormwater needs.

**A. Capital Improvement Expenditures**

1. Debt Retirement

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

2. Capital Improvement

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

**B. Operation, Maintenance, & Rehabilitation (OM&R)**

1. OM&R (City Crews)

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

2. Storm Sewer Cleaning & Televising

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

3. Storm Sewer Pipe & Manhole Repair

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

4. Channel & Detention Basin Maintenance

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

5. Intergovernmental Maintenance Agreements

- JULIE

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

- Encephalitis Program

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

- USGS Stream & Rain Gauges

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

- Saline & Urbana Maintenance Agreements

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

**C. Stormwater Quality**

1. Erosion Control, Grading & Drainage Permits

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

2. NPDES Permit

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

**D. Private Property**

1. Stormwater Management

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

2. Hazardous Sump Pump – Cost Share

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

3. Overhead Sewer Program – Cost Share

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

4. Rain Garden – Cost Share

Not Important	Low Priority	No Opinion	Moderate Priority	Top Priority
0	1	2	3	4

**E. Comments/Suggestions:**

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**Survey Form**  
**How Are We Doing?**

1. Meeting Location (Council Chambers)

\_\_\_\_\_ Acceptable

\_\_\_\_\_ Unacceptable

Comments: \_\_\_\_\_

\_\_\_\_\_

2. Meeting Time (2<sup>nd</sup> Monday of each month, 4-5:30 p.m.)

\_\_\_\_\_ Acceptable

\_\_\_\_\_ Unacceptable

Comments: \_\_\_\_\_

\_\_\_\_\_

3. Do you understand the duties and responsibilities of the Stormwater Utility Fee Advisory Committee?

\_\_\_\_\_ Yes

\_\_\_\_\_ No

Comments: \_\_\_\_\_

\_\_\_\_\_

4. Do you understand what the next steps for the next couple of months will be for the Committee?

\_\_\_\_\_ Yes

\_\_\_\_\_ No

Comments: \_\_\_\_\_

\_\_\_\_\_

5. Please rate the quality of the presentations

Unacceptable	Poor	OK	Good	Excellent
1	2	3	4	5

Comments/Suggestions: \_\_\_\_\_

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\_\_\_\_\_

**Stormwater Utility Fee  
Advisory/Technical  
Committee Meeting**

November 8, 2010  
4 – 5:30

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**November 8, 2010  
Meeting Agenda**

- 1.Minutes (October 11, 2010)
- 2.Member Inquiries / Staff Follow-up
- 3.Champaign’s Existing Stormwater Management Program – Part 2
- 4.Stormwater Utility Fee
- 5.Public Participation
- 6.Next Meeting
- 7.Adjourn

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**Stormwater Utility Fee  
Advisory / Technical  
Committees Meeting**  
November 8, 2010

**Agenda Item 1**  
**Minutes**  
October 11, 2010 Meeting

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**City of Champaign, Illinois**  
**Minutes of Meeting**

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**Stormwater Utility Fee Advisory & Technical Committees Meeting**

**October 11, 2010**

**Advisory Committee Members Present:** Anna Maria Watkin, Jim Bustard, Jim Spencer, Jim Jesso, Karen Foster, Vic McIntosh, Steve Cochran, Jim Creighton, Eliana Brown, Dave Tomlinson, Donald Agin

**Advisory Committee Members Absent:** Clif Carey, Chris Hamelburg, Chuck Allen

**Technical Committee Members Present:** Lorrie Pearson, Mark Toalson

**Technical Committee Members Absent:** Leslie Lundy, Andrew Proctor, Shawn Luesse

**City Staff Present:** Dennis Schmidt, Roland White, Jamie Vermillion

**Consultants Present:** Greg Kacvinsky – Foth Infrastructure & Environmental

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**Call to Order**

The meeting was called to order at 4:03 p.m.

**Minutes**

Watkin informed staff that her surname was misspelled in the September 13, 2010 Meeting Minutes.

**Introductions**

McIntosh, Committee Chair, led introductions of City Staff and the Stormwater Utility Fee Advisory Committee.

**Member Inquiries**

None

**Surveys**

McIntosh explained the purpose of the “Existing (Budgeted) Expenditures Stormwater Fund” and “How Are We Doing” surveys found in the meeting packet materials.

**Champaign’s Existing Stormwater Management Program**

Schmidt gave a presentation describing existing stormwater program activities provided by the City and how much is spent on each of these activities. Expenditures discussed were Debt Retirement, Capital Improvement, Operation, Maintenance & Rehabilitation

(City Crews), Storm Sewer Cleaning & TV, Storm Sewer Pipe & Manhole Repair and Channel & Detention Basin Maintenance.

Tomlinson asked for an explanation of the \$600,000 increase in Debt Retirement expenditures between FY12 & FY13. Schmidt explained that the increase was due to the way the debt was structured. Once the City's original bonds are paid off, the later bonds are to be paid at a higher percentage than the original bonds.

Foster asked if Urbana was considering continuing the Boneyard project beyond Wright Street. Schmidt speculated that Urbana's project will start at Goodwin. Foster followed up by asking how far east that project is expected to go. Schmidt guessed that it would go to either University or Cunningham in Urbana.

Foster asked when Cross Construction will begin work on the Washington Street East Project. Schmidt estimated the project would begin by October. Foster then asked if the pipes that are going to be installed are large enough to alleviate the flooding in that area. Schmidt responded that the existing pipe can only handle a one or two year storm event and new pipes will be able to handle a ten year storm. Foster then asked if there would be similar disruption in the Washington Street East Project as there has been in the John Street Improvement Project. Schmidt indicated that there would be disruption in the neighborhood including restricted driveway access for some residents.

Cochran asked for the estimated completion date of the John Street Improvement Project. White explained that the John Street Project will be bid in early 2011 with the majority of work being completed by the end of the 2011 construction season.

Tomlinson asked if the money being used right now to pay for debt retirement will be available in twenty years. Schmidt said that there will be no capital improvements for the next twenty years until the bond indebtedness is over.

Creighton asked if the City retires the debt accrued through the Lamar Project and the Healey Street Detention Basin Project in 2016 (\$25 million), would that \$25 million be available to bond? Schmidt indicated that is not the way the debt is structured.

Spencer asked for the projected cost for Washington Street West to handle a 40 year storm. Schmidt indicated that cost estimate is between \$10-\$12 million.

Foster asked how many City crews are dedicated to stormwater activities in the City. Schmidt explained that in a storm event all operations crews respond. Outside of storm events, crews are dedicated to certain activities including forestry, concrete, sewers, asphalt and streets. The sewer section is dedicated to stormwater and sanitary sewer operation, maintenance and rehabilitation activities.

Foster asked if all inlets get checked after a storm event. Schmidt responded by explaining that staff does not visit all inlets, but is aware of trouble spots within the City and these are visited after each event for blockages.

Brown asked if the purchase of the jetter and televising equipment are paid for or are they part of the \$2.2 million operation, maintenance and rehabilitation expenditure. Schmidt explained that through work orders staff is able to calculate equipment hours. Each piece of equipment is charged an hourly rate and annually the vehicle maintenance fund and vehicle replacement fund are compensated according to the work order records.

Watkin asked how much time staff spends responding to calls of basement flooding. Schmidt explained that this question would be answered later in Private Property Expenditures portion of the presentation.

Cochran asked if the 40% of the storm sewer system that has been cleaned and televised is the same 40% of the storm sewer whose conditions are known. Schmidt confirmed.

McIntosh asked if a ten year cleaning and televising cycle is good according to industry standards. Schmidt indicated that it was. McIntosh then asked if the cleaning and televising would go faster in newer parts of the City. Schmidt said that was staff's logical conclusion.

Jesso asked if staff attributes the decrease in time it will take to clean and televise the newer areas of town to advancements in procedures over the years. Schmidt indicated that new procedures as well as the fact that the pipes have not been in the ground long enough to accumulate root penetration, or the amount of soil and silt as reasons the City believes it will not require as much to clean and televise newer areas as it did the older areas of the City.

Agin asked how cleaning and televising contracts are negotiated. Schmidt indicated that when the City first started contracting for these activities contracts were negotiated on a time and material basis, but the current contract is on a per lineal foot basis with a time and material factor for unforeseen problems.

Creighton asked if completing the ten year cleaning and televising activities is part of the criteria for obtaining the NPDES permit. Schmidt confirmed. Creighton then asked if the City will continue televising after the ten years is up. Schmidt responded that the City would continue televising.

Creighton asked if there are 100-125 storm sewer pipe and manhole repairs completed annually because of cost. Schmidt indicated that number is based upon cost. Creighton then asked if there was more funding for this activity, could more repairs be made. Schmidt indicated that more repairs could be made with more money dedicated to this activity.

Jesso asked if the backlog repair number for storm sewer pipe and manhole repairs was determined from the televising done in the last four years. Schmidt confirmed.

McIntosh asked if City crews complete any of the cleaning and televising of storm sewer. Schmidt explained that the City's television van is dedicated strictly to our 10 year program for our sanitary sewer system. All storm sewer cleaning and televising of the City's storm sewer system is done by contractual forces.

McIntosh asked if channel flood control maintenance of the Phinney Branch is a responsibility of the Drainage District. Schmidt indicated the Phinney Branch is the City's responsibility.

McIntosh asked if there are problems with private owners completing channel vegetative maintenance. Schmidt indicated that there are certainly problems with private owners performing that maintenance.

Foster asked how many feet from a channel a private property owner is responsible for. Schmidt indicated that it varies depending upon the channel, but in most cases the owner is responsible for mowing down to the stream level.

### **Public Participation**

There were no questions or comments made by the public.

### **Next Meeting**

McIntosh announced the next meeting will be held on November 8 at 4 p.m.

### **Adjourn**

The meeting was adjourned at 5:33 p.m.

CGTV – Cable Channel 5  
[www.ci.champaign.il.us/CGTV](http://www.ci.champaign.il.us/CGTV)  
Search for "Storm" to view previously recorded Stormwater Utility Fee Advisory Committee meetings

For meeting agendas, minutes, and materials:  
[www.ci.champaign.il.us/publicworks](http://www.ci.champaign.il.us/publicworks)  
Click on "Stormwater Utility Fee" under "Timely Topics"

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**Stormwater Utility Fee  
Advisory / Technical  
Committees Meeting**  
November 8, 2010

**Agenda Item 2**  
**Member Inquiries / Staff Follow-up**

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Member inquiry follows  
this page.

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## Dennis Schmidt - Re: Stormwater Utility Question

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**From:** Dennis Schmidt  
**To:** Brown, C Eliana (Facilities & Services)  
**Date:** 10/17/2010 8:11 AM  
**Subject:** Re: Stormwater Utility Question  
**CC:** Kavinsky, Greg; McIntosh, Vic; Noel, Douglas ; White, Roland

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Eliana - I asked Doug Noel to prepare a response to your question. Doug's response is below.

I wanted to make sure, the City provided at this time the most thorough answer to your question concerning "fee versus tax". I felt that Doug had more expertise than I in providing that answer.

Also please note the last paragraph in Doug's response. Even though, I cannot at this point establish an exact schedule when these topics will be discussed with the advisory committee, I do want to confirm Doug's statement that they will be discussed.

Also as you are probably aware the University is currently paying the City's fee for sanitary sewer operation and maintenance for those University facilities that are connected to the City's sanitary sewer system. Finally, if you have no objection, I would like to share your question and my response with all advisory committee members. I think it is important that all committee members are aware of all questions and responses.

I hope this answers your question. If you have any additional questions, please do not hesitate to contact me.

Dennis

**DOUG NOELS'S RESPONSE:** Generally speaking, the purpose of taxes is simply to raise revenue, and there need not be any association or relationship between the source of revenue and the purpose to which it is applied. User fees on the other hand, are a fee for services provided, and have been commonly used to fund all or part of public works programs such as water, sewer, solid waste, and stormwater.

The migration of stormwater program costs from taxes to fees over the last 25 years has been challenged in a number of states, and as a result the courts identify three criteria that differentiate a fee from a tax. These criteria are that there exist: 1) a regulatory nature to the fee (it must be adopted by ordinance); 2) a relationship between the fee paid and the services provided (the fee in this case pays for stormwater management related services and programs only and is rationally distributed between ratepayers), and; 3) a voluntary nature to the fee (you can reduce fees by reducing use of the stormwater system or program). This last criteria includes the concept of credit programs to reduce costs.

Stormwater utilities in the State of Illinois have been created based on two state authorizations, one being the Home Rule powers of some communities, and the other the public works statutes in the Illinois Compiled Codes. The later allows that all costs related to administering and implementing a storm sewer program can be paid for by taxes, fees, or the sale of bonds. The authority for stormwater fees was tested in Rock Island and both the district and appellate courts found that the stormwater fee met all three of the federal tests for tax versus fee.

The subject of credits will be discussed on multiple occasions during the course of the project by our team of city staff and consultants. One of our upcoming meetings will address common methods for funding stormwater management activities, during which fees and credits will be discussed generally, followed by discussion of rate structures, which commonly include credits, and at least one entire session is to be dedicated to how we might best structure a credit program in Champaign. We also anticipate some one-on-one meetings with the University as part of this process, during which the subject of credits will most likely be discussed.

>>> "Brown, C Eliana (Facilities & Services)" <Brown12@oandm.uiuc.edu> 10/14/2010 3:19 PM >>>

Dennis,

Can you provide more information about why the potential Stormwater Utility charge is a fee and not a tax? During the first SWAC meeting, I believe you touched on this briefly in regards to the credit program. The University would like to know more about this.

Thanks,

Eliana

**C. Eliana Brown** MS, FE, CPESC, LEED AP  
Environmental Compliance, Facilities & Services  
University of Illinois at Urbana-Champaign  
t: 217.265.0760 | f: 217.333.4294 | e: [brown12@illinois.edu](mailto:brown12@illinois.edu)

**Stormwater Utility Fee  
Advisory / Technical  
Committees Meeting**  
November 8, 2010

**Agenda Item 3**  
**Champaign's  
Existing Stormwater Management  
Program – Part 2**

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**Background Information**

- Expenditure, Revenue, and Billing Plan for a SWUF
- Expenditure Plan
- Existing Expenditures, Services, and Needs
- Prioritized Needs
  - Funded Needs – Existing Expenditures
  - Unfunded Needs
- Questions?

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**Existing (Budgeted) Expenditures  
Stormwater Fund**

	FY11	FY12	FY13	FY14
1. Capital Improvements	\$2,045,700	\$2,068,300	\$2,637,700	\$2,635,400
2. Operation, Maintenance & Rehabilitation	\$2,244,500	\$2,289,600	\$2,335,500	\$2,382,100
3. Stormwater Quality	\$284,600	\$290,400	\$296,200	\$302,100
4. Private Property Drainage	\$230,900	\$235,600	\$240,500	\$245,200
<b>TOTALS</b>	<b>\$4,805,700</b>	<b>\$4,883,900</b>	<b>\$5,509,900</b>	<b>\$5,564,800</b>

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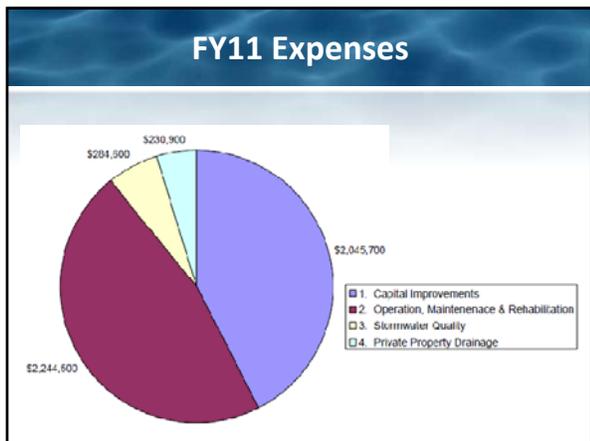
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### Existing (Budgeted) Expenditures Stormwater Fund

	FY11	FY12	FY13	FY14
<b>1. Capital Improvements</b>				
a. Debt Retirement	\$2,045,700	\$2,068,300	\$2,637,700	\$2,635,400
b. Capital Improvements	\$0	\$0	\$0	\$0
Subtotal	\$2,045,700	\$2,068,300	\$2,637,700	\$2,635,400
<b>2. Operation, Maintenance &amp; Rehabilitation (OMAR)</b>				
a. OMAR (City Crews)	\$694,100	\$708,000	\$722,200	\$736,600
b. Storm Sewer Cleaning & TV	\$556,000	\$567,200	\$578,500	\$590,100
c. Storm Sewer Pipe & Manhole Repair	\$556,000	\$516,200	\$526,500	\$537,000
d. Channel & Detention Basin Maintenance	\$339,400	\$346,200	\$353,200	\$360,200
e. Maintenance Agreements	\$149,000	\$152,000	\$155,100	\$158,200
Subtotal	\$2,244,500	\$2,289,600	\$2,335,500	\$2,382,100
<b>3. Stormwater Quality</b>				
a. Erosion Control, Grading & Drainage Permits	\$97,000	\$99,000	\$101,000	\$103,000
b. NPDES Permit	\$187,600	\$191,400	\$195,200	\$199,100
Subtotal	\$284,600	\$290,400	\$296,200	\$302,100
<b>4. Private Property</b>				
a. Stormwater Management (City Crews - Eng)	\$90,900	\$92,800	\$94,600	\$96,500
b. Hazardous Sump Pump - Cost Share	\$45,000	\$45,900	\$46,900	\$47,800
c. Overhead Sewer Program - Cost Share	\$70,000	\$71,400	\$72,900	\$74,300
d. Rain Garden - Cost Share	\$25,000	\$25,500	\$26,100	\$26,600
Subtotal	\$230,900	\$235,600	\$240,500	\$245,200
<b>TOTAL</b>	<b>\$4,805,700</b>	<b>\$4,883,900</b>	<b>\$5,509,900</b>	<b>\$5,664,800</b>

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### Stormwater Expenditure Activities

- For Each Expenditure Activity
  - Description
  - Benefits
  - Cost
- Questions?

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Capital Improvement Expenditures				
	FY11	FY12	FY13	FY14
1. Debt Retirement	\$2,045,700	\$2,068,300	\$2,637,700	\$2,635,400
2. Capital Improvement	\$0	\$0	\$0	\$0
<b>TOTAL</b>	<b>\$2,045,700</b>	<b>\$2,068,300</b>	<b>\$2,637,700</b>	<b>\$2,635,400</b>

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- | Debt Retirement  |
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| 1. LAMAR Project - \$8M                                |
| 2. Healey Street Detention Basin - \$17M               |
| 3. Scott Park - \$2.2M                                 |
| 4. Boneyard Creek 2 <sup>nd</sup> Street Reach - \$11M |
| 5. Viaduct Storm Sewer Improvements - \$5.3M           |
| 6. John Street Improvement Project - \$6.1M            |
| 7. Washington Street – EAST - \$1.8M                   |
| 8. Washington Street – WEST - \$2.1M                   |

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- | Capital Improvement Expenditures Summary  |
|---|
| <ul style="list-style-type: none"> <li>• Significant Number of Capital Projects – Completed</li> <li>• Next 20 Years – No projects budgeted                             <ul style="list-style-type: none"> <li>– No revenue available – Additional Debt Retirement</li> </ul> </li> <li>• SWUF</li> <li>• Economy – Recover – Additional sales tax</li> <li>• Reprioritize existing expenditures</li> </ul> |

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**B. Operation, Maintenance, & Rehabilitation (OM&R)**

1. OM&R (City crews)
2. Storm Sewer Cleaning & Televising
3. Storm Sewer Pipe & Manhole Repair
4. Channel & Detention Basin Maintenance
5. Intergovernmental Maintenance Agreements

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**B. OM&R Expenditures**

- Background Information
  - FY11 OM&R Expenditure - \$2,244,500
  - \$325,000,000 Replacement Value (Detention Basins, Channels, Pipes, Manholes & Inlets)
  - City Crews / Contracted
    - City Crews – reactive maintenance
    - Contracted – preventive maintenance
  - Benefit
    - Maintain the Capacity of the City’s Stormwater System – keep it working
    - Not Improvements

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**1. City Crews – OM&R**

- Tasks (Reactive Maintenance)
  - Respond to Flooding Calls (streets, viaducts, & basements)
  - Repair Structures (inlets, pipes, & manholes)
  - Clean Inlets, Pipe channels – debris removal
  - Install New Pipes & Manholes
- \$694,100 Annually
- Track Services – Bill – Stormwater Fund

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## 2. Storm Sewer Cleaning & Televising

- Preventive Maintenance Activity
- Contractual Forces (\$556,000 annually)
- Purpose
  - Restore Pipe Capacity
  - Identify Structural Deficiencies
- Total Inventory – 1,500,000 l.f. of pipe
- Clean & Televising – 150,000 l.f. annually
- 10-year Cycle
- Started – 3 years ago
- 40% of the system completed

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## 3. Storm Sewer Pipe & Manhole Repairs

- Preventive Maintenance Activity
- Contractual Forces (\$506,000 annually)
- Repair Type
  - Traditional (Excavate & Replace)
  - Lining (No Excavation)
- 100 – 125 Repairs Annually
- Backlog – 4,300 Repairs Needed

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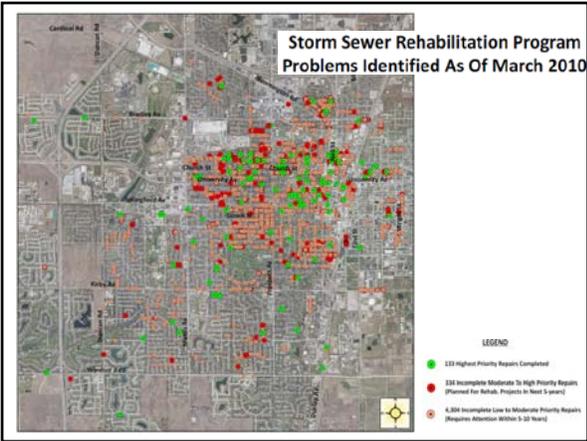
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#### 4. Channel & Detention Basin Maintenance

- \$339,400 Annually
- Preventive & Reactive Maintenance
- City Crews / Contractually
- Channel Flooding (Phinney Branch & Boneyard)
- Watersheds

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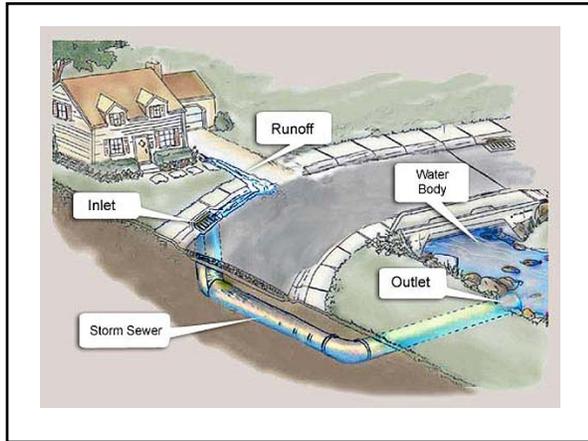
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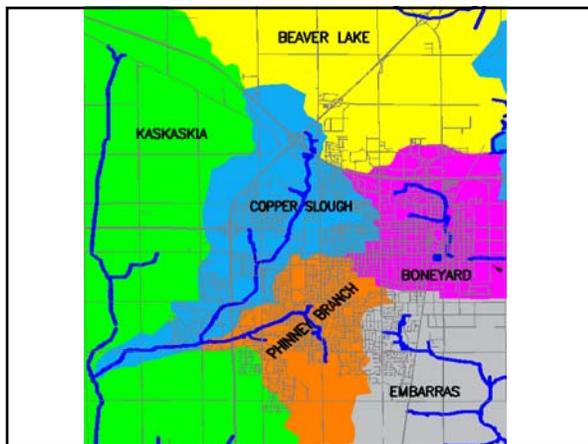
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**City Detention Basins - Maintenance**

- Healey Street
- Eureka Elm
- Oak – Ash
- Upper Boneyard
- Mattis Lake
- Mowing & Debris Removal

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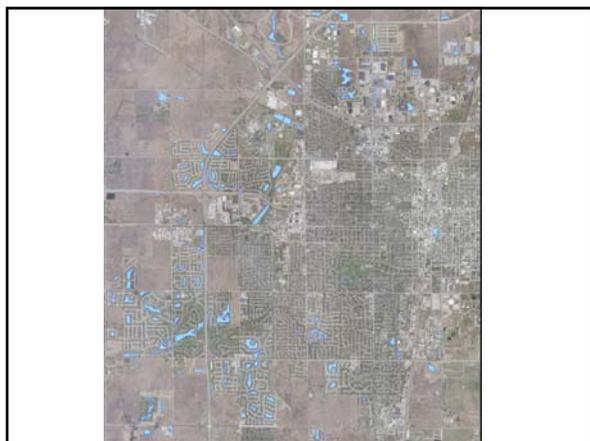
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**5. Intergovernmental Maintenance Agreement**

- JULIE Program
- USGS Stream & Rain Gauges
- Encephalitis Program
- Saline Drainage District & Urbana Agreements
- \$149,000 Annually

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**JULIE Program**

- City required to participate
- City utilities – underground – JULIE
  - Storm sewers
  - Sanitary sewers
  - Electrical lines – street lights & traffic signals
- JULIE - \$120,000
- Pro-rated share – stormwater - \$47,000

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UTILITY/TYPE OF PRODUCT	IDENTIFICATION COLOR
Gas, Oil, Steam, Petroleum	Yellow
Electric	Red
Potable Water	Blue
Communication, TV	Orange
Sewer and Drain Lines	Green
Reclaimed Water, Irrigation	Purple
Temporary Survey	Pink
Proposed Excavation	White
	Black on snow

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### USGS Stream & Rain Gauges

- Rain & Stream Gauges
- Boneyard Creek & Copper Slough Watersheds
- USGS – Maintains – Gauges
- Update computer models
- \$26,500

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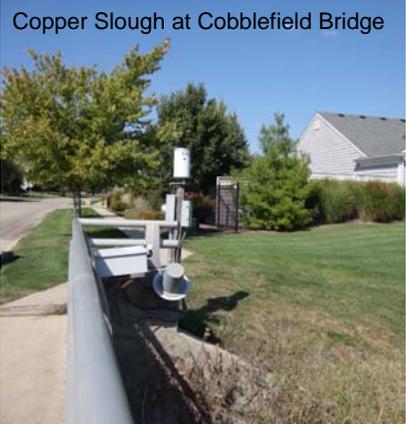
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Copper Slough at Cobblefield Bridge



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### Encephalitis Program

- City of Urbana & Village of Savoy
- Champaign Urbana Public Health Department
- Purpose – control mosquito population – cause – Encephalitis
- Treat storm sewer inlets – larvicides
- Prorated share - \$24,500



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### Saline Drainage District & Urbana Intergovernmental Maintenance Agreements

- Boneyard flows through City of Urbana & discharges to the Saline Ditch
- Maintenance Agreement
- Prorated share downstream maintenance
- Upper limit – Urbana - \$25,000 annually
- Upper limit – Saline Drainage District - \$26,000 annually

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### 2. Operations, Maintenance & Rehabilitation

	FY11
a. OM&R (City Crews)	\$694,100
b. Storm Sewer Cleaning & TV	\$556,000
c. Storm Sewer Pipe & Manhole Repair	\$506,000
d. Channel & Detention Basin Maintenance	\$339,400
e. Maintenance Agreements	\$149,000
<b>TOTAL</b>	<b>\$2,244,500</b>

Questions?

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### 3. Stormwater Quality

	FY11	FY12	FY13	FY14
a. Erosion Control, Grading & Drainage Permits	\$97,000	\$99,000	\$101,000	\$103,000
b. NPDES Permit	\$187,600	\$191,400	\$195,200	\$199,100
Subtotal	\$284,600	\$290,400	\$296,200	\$302,100

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**1. Erosion Control,  
Grading & Drainage Permits**

- New construction
  - Exceeds – threshold – Impervious Surfaces
  - Exceeds – threshold – Surface Disruption
- Permits – required
- Permits – fees – area
- \$97,000 – City staff (reviewing & inspecting )
- Fees = City cost

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**2. NPDES Permit**

- National Pollutant Discharge Elimination System
- Goal = improve water quality – streams
- Regulation – discharge water to a stream – NPDES permit – required
- Wastewater Treatment Plants – early 1970s
- City of Champaign – stormwater system- 10 years

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**City's NPDES Permit**

- Annual Report
- Activities – City – Completed – Improve stormwater control
- Using IEPA's "Minimum Control Measure

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### IEPA's Minimum Control Measures

- Public Education & Outreach
- Public Participation & Involvement
- Illicit Discharge Detection & Elimination
- Construction Site Runoff Control
- Post Construction Site Runoff Control
- Pollution Prevention & Good Housekeeping

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### Status of Minimum Control Measures April 1, 2009 – March 31, 2010

Minimum Control Measure Category	Activities Completed	Activities In Progress	Activities Not Started	Total Activities
Public Education and Outreach	6		1	7
Public Participation & Involvement	7			7
Illicit Discharge Detection & Elimination	4	1		5
Construction Site Runoff Control	4			4
Post-Construction Runoff Control	3	1		4
Pollution Prevention & Good Housekeeping	15			15
<b>TOTALS</b>	<b>39</b>	<b>2</b>	<b>1</b>	<b>42</b>

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**BMP C.2.1:** Two illicit sanitary connections were removed from the storm sewer system.

**BMP D1.1:** 97 construction site erosion control permits were issued.

**BMP F.3.1:** Approximately 100,000 linear feet of storm sewer were cleaned & televised and 500 storm inlets & manholes were also cleaned.

**BMP F.3.2:** Inspections of the Boneyard Creek & Phinney Branch stream to locate debris and identify maintenance issues. As a result of the inspections, approximately 9 dump truck loads of trash & debris were removed from the channels this year; 1 truck load was removed from the Phinney Branch stream & 8 truck loads were removed from the Boneyard Creek.

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**BMP F.4.2:** Recycling drives collected 400 televisions, 450 computers, 22 pallets of printers/copiers, and over 5,178 cubic yards of yard waste.

**BMP F.4.4:** Routine street sweeping on all City streets, which accounted for 7,030 lane miles of sweeping and the removal of 5,393 hoppers of debris.

**BMP F.6.2:** Salt & calcium was applied to City streets at a rate of 300-800 lbs./lane mile. These application rates follow those outlined in the Salt Institute's "The Snowfighter's Handbook". A total of 4,779 tons of salt and 2,399 gallons of calcium were applied to City streets during the permit year.

**BMP F.6.6:** The City operated the residential recycling center this year with a total of approx. 2,297 tons of material brought in by residents. The materials included aluminum cans, glass, newspaper, plastic, and other commercial products.

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### NPDES Permit - Summary

- Staff Time, Materials, and Contractual Forces
- Minimum Control Activities
- FY11 Budget - \$187,600

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### D. Private Property Expenditures

	FY11	FY12	FY13	FY14
a. Stormwater Management (City Crews – Eng.)	\$90,900	\$92,800	\$94,600	\$96,500
b. Hazardous Sump Pump – Cost Share	\$45,000	\$45,900	\$46,900	\$47,800
c. Overhead Sewer Program – Cost Share	\$70,000	\$71,400	\$72,900	\$74,300
d. Rain Garden – Cost Share	\$25,000	\$25,500	\$26,100	\$26,600
Subtotal	\$230,900	\$235,600	\$240,500	\$245,200

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### 1. Stormwater Management

- City Staff Time
- Help Property Owners
  - Basement Flooding
  - Sump Pump Problems
  - Grading Issues
- 600 Hours (\$90,900)
- 2008 & 2009 – 2 to 3 times

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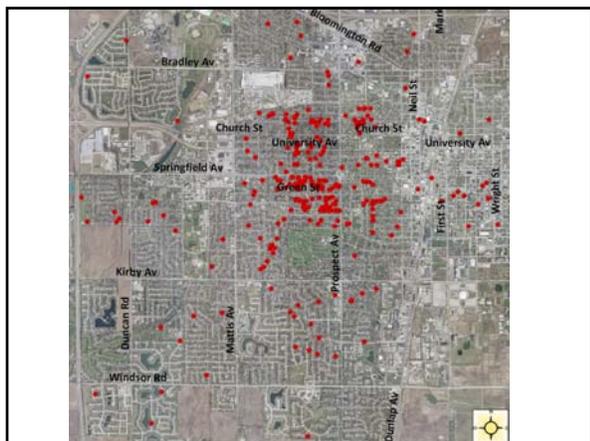
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## 2. Hazardous Sump Pumps

- Problem Sump Pump Discharges Reaching ROW
  - Icing – Sidewalks / Streets
  - Algae – Sidewalks / Streets
- Cost Share Program
- Goal – Connect Hazardous Sump Pump Discharges to City Storm Sewers
- Inventory
  - 164 Sites
  - \$45,000 Annually
  - 15-20 Sites Per Year

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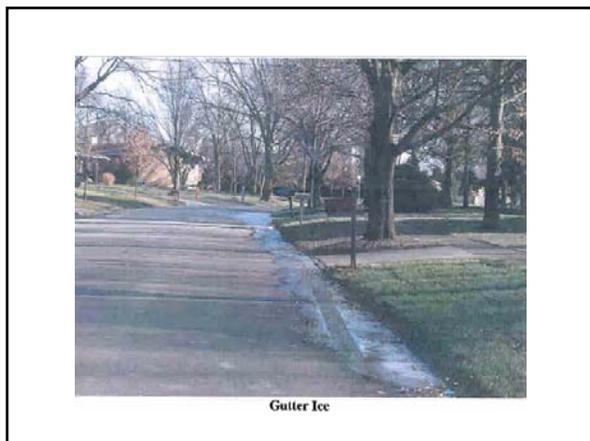
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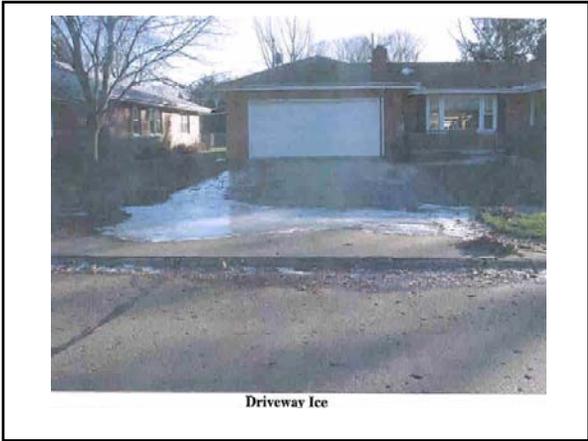
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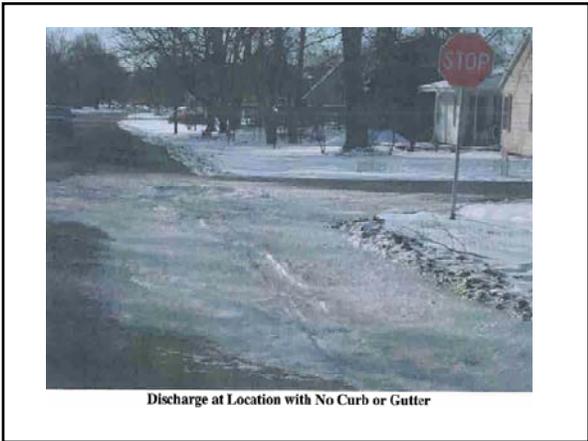
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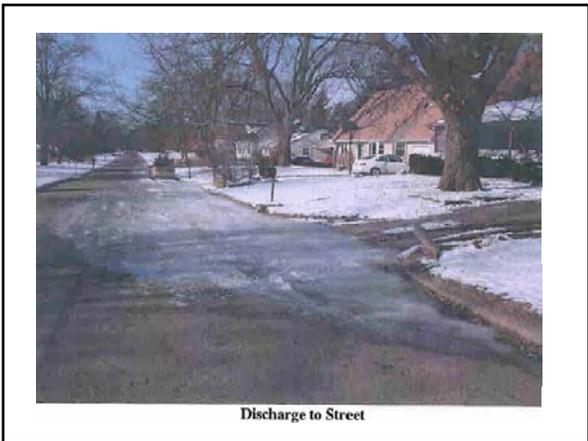
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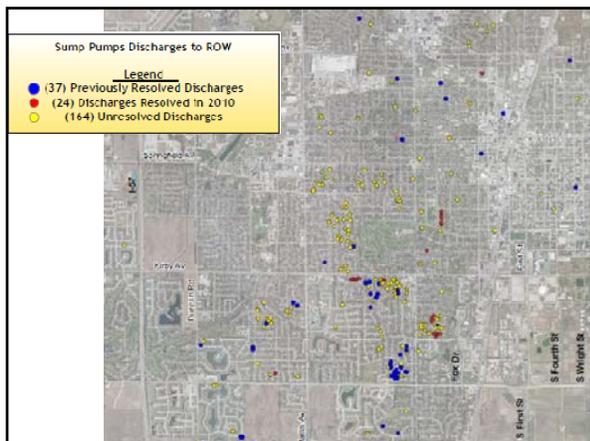
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### 3. Overhead Storm Sewer Program

- Problem – Basement Backups
  - Connected – Gravity – Storm Sewer System
  - Storm Sewer – Surcharges – Backup
  - 1,000s Homes with Problems
- Goal = Disconnect basements from the City's storm sewer system
- Cost Share Program
- Not started – staff limitations
- \$70,000 Annually
- Similar programs

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### 4. Rain Gardens

- Cost Share Program
- \$25,000 Annually
- Goal = encourage construction of rain gardens on private property – reduce runoff
- Not started – staff limitations



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### D. Private Property Expenditures

	FY11
a. Stormwater Management (City Crews – Eng.)	\$90,900
b. Hazardous Sump Pump – Cost Share	\$45,000
c. Overhead Sewer Program – Cost Share	\$70,000
d. Rain Garden – Cost Share	\$25,000
<b>Subtotal</b>	<b>\$230,900</b>

Questions?

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FY 11 Expenditures

<b>1. Capital Improvements</b>	
a. Debt Retirement	\$2,045,700
b. Capital Improvements	\$0
Subtotal	\$2,045,700
<b>2. Operation, Maintenance &amp; Rehabilitation</b>	
a. Operation, Maintenance & Rehabilitation (City Crews)	\$694,100
b. Storm Sewer Cleaning & Televising	\$556,000
c. Storm Sewer Pipe & Manhole Repair	\$506,000
d. Channel & Detention Basin Maintenance	\$339,400
e. Maintenance Agreements	\$149,000
Subtotal	\$2,244,500
<b>3. Stormwater Quality</b>	
a. Erosion Control, Grading & Drainage Permits	\$97,000
b. NPDES Permit	\$187,600
Subtotal	\$284,600
<b>4. Private Property Drainage</b>	
a. Stormwater Management (City Crews - Eng.)	\$90,900
b. Hazardous Sump Pump - Cost Share	\$45,000
c. Overhead Sewer Program - Cost Share	\$70,000
d. Rain Garden - Cost Share	\$25,000
Subtotal	\$230,900
<b>TOTAL</b>	<b>\$4,805,700</b>

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**Stormwater Utility Fee  
Advisory / Technical  
Committees Meeting**  
November 8, 2010

**Agenda Item 4**

**Stormwater Utility Fee**



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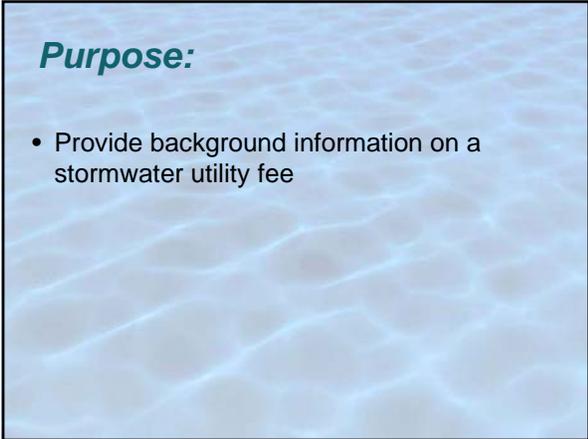
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***Purpose:***

- Provide background information on a stormwater utility fee



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***Stormwater Utility Fee***

1. Impervious Area
2. Equivalent Residential Unit
3. Credits
4. Exemptions
5. Tax Exempt Properties
6. Other Illinois Communities
7. Potential Revenue



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### Stormwater Utility Fee – Theory

- Every property in a watershed produces runoff.
- Amount of runoff is directly proportional to Impervious Area on the property.

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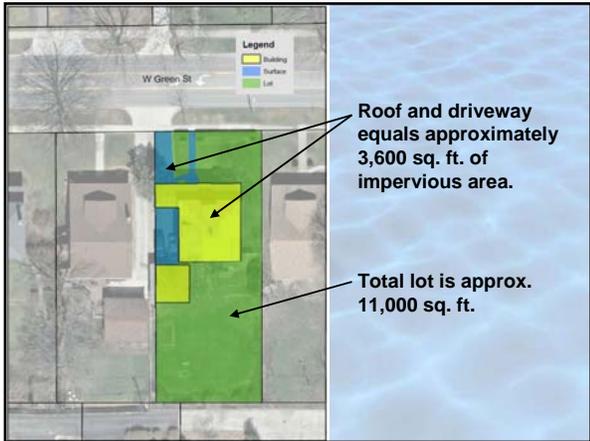
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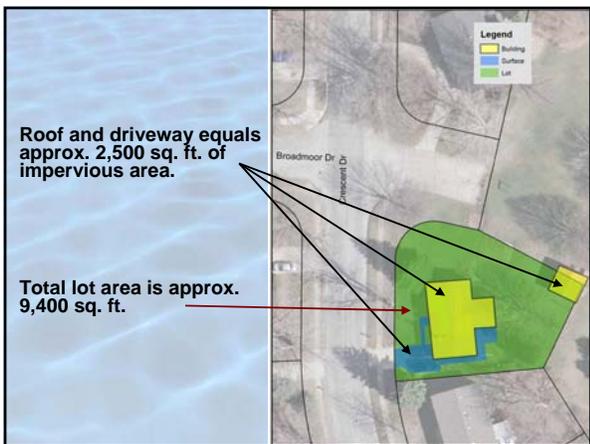
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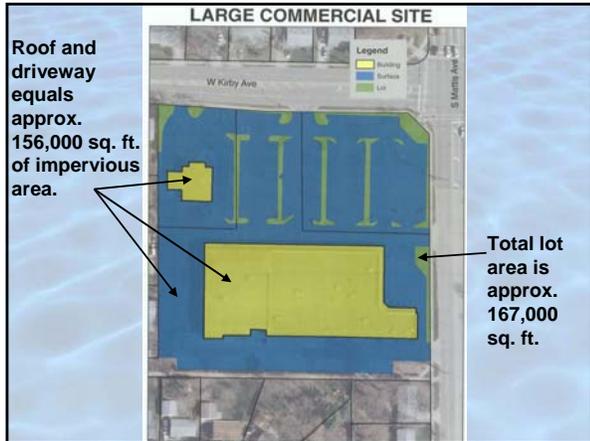
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**Stormwater Utility Fee**

1. Impervious Area
2. Equivalent Residential Unit
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**Stormwater Utility Billing Methods**

- Customer Classifications (Zoning Class)
- Impervious Plus Gross Area
- Runoff Coefficient
- Billing Unit (ERU)
- Flat Fee

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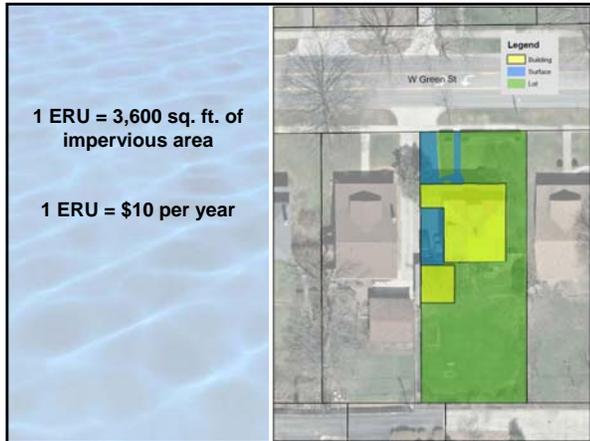
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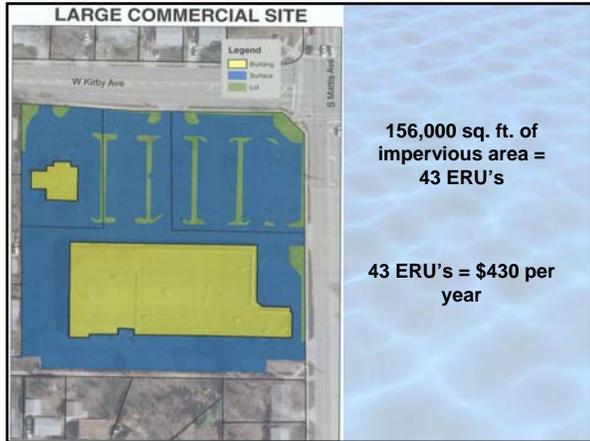
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**Stormwater Utility Fee**

1. Impervious Area
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### **Credits**

- Stormwater utility fees “usually” incorporate a credit program
- Credit program encourages improvements
  - Reduce stormwater runoff
  - Improve stormwater quality

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### **Examples of Credits (Improvements)**

- Subdivision Detention Basins
- Subdivision – low impact development
- On-site detention
- Pervious pavements
- Rain Gardens / Bioswales
- Rain Barrels
- Others

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### **Stormwater Utility Fee**

1. Impervious Area
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### ***Exemptions***

- Definition: Properties that will not be billed for a stormwater utility fee
- Streets & Sidewalks located in the Right of Way
  - Used by all property owners
  - Streets – part of stormwater conveyance system
- Undeveloped Property
  - Sometimes
  - No impervious surfaces

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### ***Stormwater Utility Fee***

1. Impervious Area
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### ***Tax Exempt Properties***

- Non-profits
- School Districts
- Park District
- Churches
- University of Illinois
- Parkland College
- Government Units

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### ***Tax Exempt Properties***

- Most stormwater utility fee's bill tax exempt properties
- City properties (parking lots, building, etc.) would pay stormwater utility fee.
- Currently, City bills tax exempt properties for sanitary sewer fee.

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### ***Stormwater Utility Fee***

1. Impervious Area
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7. Potential Revenue

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### ***Annual Stormwater Utility Revenues***

<b>Municipality</b>	<b>Population</b>	<b>Revenues</b>	<b>Per Capita</b>
Aurora	170,900	\$3,025,000	\$18
Bloomington	75,000	2,600,000	35
Highland Park	31,500	650,000	21
Moline	43,000	1,800,000	42
Morton	16,600	900,000	54
Normal	52,500	1,700,000	32
Rock Island	40,000	1,400,000	35
Rolling Meadows	23,300	540,000	23

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### Other Illinois Communities

- Average \$28 per capita per year
  - Under Consideration
    - St. Charles
    - Urbana
    - Danville
    - Decatur
    - Others

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### Stormwater Utility Fee

1. Impervious Area
2. Equivalent Residential Unit
3. Credits
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6. Other Illinois Communities
7. Potential Revenue

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### City of Champaign Stormwater Utility Fee

Land Use Type	ERU's	Fee Per Land Use Type	Average Fee Per Parcel
Parks	389.63	\$ 6,401.59	\$ 33.34
Industrial/Commercial	23,295.10	382,738.54	201.87
In-Town	1,576.27	25,898.10	35.24
Single-Family Residence	26,218.26	430,765.95	25.68
Multi-Family Residence	9,403.44	154,498.56	61.11
<b>Total</b>	<b>60,882.70</b>	<b>\$1,000,302.74</b>	
Fee per ERU based on approximately \$1,000,000 target = \$16.43			

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**Why are More Municipalities Considering a SWUF?**

- More service demands
  - Weather
  - Aging infrastructure
  - Larger government role in solving problems
- Changing regulations
  - Results in increased cost
- Technology
  - GIS – equitable billing system can be developed

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**Stormwater Utility Fee Benefits**

- Stable revenue source
- More equitable means to pay for stormwater management
- Provide additional resources – more stormwater activities

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**Questions?**

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