



Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control ANNUAL FACILITY INSPECTION REPORT

for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.

Report Period: From March, 2017 To March, 2018

Permit No. ILR40 0186

MS4 OPERATOR INFORMATION: (As it appears on the current permit)

Name: CITY OF EDWARDSVILLE Mailing Address 1: 200 EAST PARK STREET
Mailing Address 2: _____ County: Madison
City: EDWARDSVILLE State: IL Zip: 62025 Telephone: 618-692-7535
Contact Person: JIM PISETTA Email Address: jpisetta@cityofedwardsville.com
(Person responsible for Annual Report)

Name(s) of governmental entity(ies) in which MS4 is located: (As it appears on the current permit)

ILLINOIS DEPARTMENT OF TRANSPORTATION MADISON COUNTY
CHOUTEAU TOWNSHIP, EDWARDSVILLE TOWNSHIP PIN OAK TOWNSHIP

THE FOLLOWING ITEMS MUST BE ADDRESSED.

A. Changes to best management practices (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

- | | | | |
|--|-------------------------------------|---|--------------------------|
| 1. Public Education and Outreach | <input type="checkbox"/> | 4. Construction Site Runoff Control | <input type="checkbox"/> |
| 2. Public Participation/Involvement | <input type="checkbox"/> | 5. Post-Construction Runoff Control | <input type="checkbox"/> |
| 3. Illicit Discharge Detection & Elimination | <input checked="" type="checkbox"/> | 6. Pollution Prevention/Good Housekeeping | <input type="checkbox"/> |

B. Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

D. Attach a summary of the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule.)

E. Attach notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

F. Attach a list of construction projects that your entity has paid for during the reporting period.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Owner Signature:

5/25/2018

Date:

ERIC D. WILLIAMS, P.E.

Printed Name:

DIRECTOR OF PUBLIC WORKS

Title:

EMAIL COMPLETED FORM TO: epa.ms4annualinsp@illinois.gov

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
1021 NORTH GRAND AVENUE EAST
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

ADMINISTRATIVE REVISIONS TO THE NOTICE OF INTENT

Revisions to the original Notice of Intent (NOI) are reflected below.

MS4 Operator Mailing Address: Yes _____ No X _____

Persons Responsible: Yes _____ No X _____

Name: _____

Title: _____

Telephone Number: _____

Area of Responsibility: _____

Introduction

In 2003, Madison County (County), Illinois, and its communities created a Co-Permittee Group to join forces in complying with the National Pollutant Discharge Elimination System (NPDES) for Municipal Separate Storm Sewer Systems (MS4) Phase II requirements. As stated in the original 2003 Notice of Intent (NOI), the County and the Co-Permittee communities were to pool resources and work together to comply with the commitments made within the NOI for the benefit of all within the County.

The Co-Permittee Group was active during this reporting period. Significant progress was made sharing Best Management Practices (BMPs) for document retention, outfall mapping, operation procedures, and maintenance activities.

Best Management Practice (BMP) Summary of 2017-2018 Activities

In 2003, each member of the Co-Permittee Group submitted a NOI in compliance with the first 5-year cycle. In 2008, a NOI was submitted in compliance with the next 5-year cycle, as written in the first MS4 permit. The 2009 NOI was submitted in compliance with additional requirements of the Illinois Environmental Protection Agency (IEPA) in the second MS4 permit. As stated in the 2003, 2008, and 2009 NOI, each Co-Permittee Member identified certain activities to comply with the Phase II requirements. Below is an abbreviated summary of the BMPs that were written in the NOI for each of the minimum control measures.

March 2017-March 2018:

- 1) **A.1-** Brochures incorporating green infrastructure and other related BMPs were to be published and displayed by each community in a public place, or on the community website, if applicable.
- 2) **A.4-** Madison County sponsored and participated in water-quality public events.
- 3) **A.5-** Madison County coordinates and participates in various events providing educational opportunities for local students.
- 4) **A.6-** Madison County participates in educational programs, including involvement in the Green Schools Program.
- 5) **B.2.c-** Each community is to provide a minimum of (1) public meeting annually for the public to provide input as to the adequacy of the permittee's MS4 program.
- 6) **B.3-** The Co-Permittee group met (4) times throughout the year to provide training and updates on various topics.
- 7) **B.6-** Each community was made aware of County sponsored events. Madison County was responsible for program development and coordination.

- 8) **B.7-** Madison County is starting to implement watershed plans to reduce flooding and improve water quality throughout the County. Public involvement is a critical component of these plans through open houses, surveys, and stakeholder meetings.
- 9) **C.1-** Communities were to review outfall map completeness and update revised or new storm sewer systems.
- 10) **C.2, 9-** Revisions to existing illicit discharge ordinances have been delayed until completion of the County Stormwater Master Plan. Madison County is working with the Stormwater Commission to prepare a Master Plan for the County. The Master Plan is currently in development.
- 11) **C.5-** Communities reviewed the inlet stenciling program. Standards for inlet stencils were available to the Co-Permittee Group upon request. The County is working to assist communities with resources to complete their inlet stenciling program as well as auditing the condition of existing markings.
- 12) **C.7-** Communities were to conduct illicit discharge inspections of facilities and outfall points. Illicit discharge detection training was included during one quarterly meeting.
- 13) **D.1, D.2, D.4, E.3, E.4-** Revisions to construction and post-construction stormwater ordinances have been delayed until the completion of the County Stormwater Master Plan. Training was provided on understanding, interpreting, and enforcing stormwater ordinances in place at this time.
- 14) **D.5-** Madison County continued to maintain a stormwater hotline number to address public concerns related to stormwater issues.
- 15) **D.6, E.5-** The County provided continuing education opportunities for Co-Permittee members.
- 16) **F.1-** Provide training for employees whose work may impact stormwater runoff.
- 17) **F.2-** Evaluate storm water quality and impact with quarterly visual inspections of outfall points.
- 18) **F.3-** Communities are to review and update O&M manuals annually. Operations training was provided during a quarterly meeting.
- 19) **F.6-** The County has been conducting internal audits with IEPA staff to assess MS4 activities and NPDES permit compliance within the Co-Permittee Group.

The following pages highlight any changes made to the BMPs from the NOI, BMP status, and activities planned for the next reporting year. Additional information is also provided from the County and each Community.

COMMUNITY NAME: City of Edwardsville

PERMIT #: ILR400186

IEPA Annual Report for Stormwater Discharges from MS4 Communities- Period: March 2017 through March 2018

A. Changes to Best Management- Were there any changes to the BMPs?	B. The status of compliance with the permit, the appropriateness of the BMP and progress towards achieving reduction of discharged pollutants to the MEP, and identified measurable goals for each of the minimum control measures.	C. Provide results of information collected and analyzed, including monitoring data. Information attached? If attached information, describe.	D. Summarize the stormwater activities you plan to undertake with an implementation schedule
Comment		If attached information, describe.	Activity
BMP No. A.1- Distributed Paper Materials- Informational Brochures			
Milestone For Reporting Year: Brochures were posted in a public location and available to residents.			
X	The City has stormwater brochures available to residents at the Madison County Administration Building and on the County website.		The City will continue to make brochures available through the upcoming permit cycle.
BMP No. A.4- Community Event- attend and participate in water-quality oriented public events			
Milestone For Reporting Year: Attend at least two such events each year.			
X	The County participated in multiple water-quality oriented public events, including the Lewis & Clark Water Festival, the Mississippi EarthTones Festival, the Riverbend Earth Day Festival, and the Grow Native Event.	See Page 10 and Exhibits A.4-A to A.4-D for more information.	The County will continue to attend at least two water related events per year.
BMP No. A.5- Classroom Education Material			
Milestone For Reporting Year: No specific milestone.			
X		Review of Classroom Educational Materials (See Page 10)	The City will work with the County to coordinate educational opportunities.
BMP No. A.6- Educational Presentations			
Milestone For Reporting Year: Make at least two school presentations. Continue educational programs.			
X	Madison County schools operate a Green Schools program which educates children about the need to recycle and explore "green" options in their lives.		The County will continue involvement in educational programs.

IEPA Annual Report for Stormwater Discharges from MS4 Communities- Period: March 2017 through March 2018

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Comment		Activity	Schedule
BMP No. B.2.c- Public Involvement /Participation			
Milestone For Reporting Year: Schedule one public meeting per year where residents can provide input on existing stormwater programs.			
X	The City did not hold a public meeting to discuss their MS4 program.	X	Ongoing through 2017-2021 permit cycle.
BMP No. B-6- Program Involvement- Coordinate Meetings and Annual Reports			
Milestone For Reporting Year: The community will continue to meet to share BMPs and training opportunities.			
X	The Madison County MS4 Co-Permittee Group held four quarterly training meetings during the 2017-2018 permit year. Meetings were held: - June 21, 2017 - September 13, 2017 - December 13, 2017 - March 28, 2018 Representatives from the City attended all meetings.	See Page 10 and attached Exhibit B.6/ F.1- A for review of meetings and topics.	Ongoing through 2016-2021 permit cycle.
BMP No. B.7- Other Public Involvement- Participate in Recycling, Sustainability and Green Infrastructure Programs			
Milestone for Reporting Year: Participate in two recycling, sustainability, and green infrastructure programs.			
X	The County sponsored numerous recycling, sustainability, and green infrastructure programs including Pharmaceutical Drop-off, Electronic Waste Collection, and Christmas Tree Recycling.	Review of Program Material (See Page 11)	Ongoing through 2016-2021 permit cycle.

IEPA Annual Report for Stormwater Discharges from MS4 Communities- Period: March 2017 through March 2018

A. Changes to Best Management- Were there any changes to the BMPs?	B. The status of compliance with the permit, the appropriateness of the BMP and progress towards achieving reduction of discharged pollutants to the MEP, and identified measurable goals for each of the minimum control measures.	C. Provide results of information collected and analyzed, including monitoring data. Information attached? If attached information, describe.	D. Summarize the stormwater activities you plan to undertake with an implementation schedule
Comment			Activity Schedule
BMPs No. D.1 and E.2 and D.4 and E.3 and E.4- Site Plan and Pre-Construction Review Procedures			
Milestone for Reporting Year: Madison County provided an update to the Co-Permittee Group on progress with the Stormwater Master Plan			
	The City's Stormwater Ordinance contains sections on construction site runoff control. Madison County has continued to work towards a county-wide Stormwater Master Plan.	X	Continue to enforce erosion and sediment control ordinances.
BMP No. D.2- Erosion and Sediment Control BMP's			
Milestone for Reporting Year: Include BMP training in one quarterly meeting			
	Operations training was provided during the December 13, 2017 quarterly meeting. The City attended the meeting.	X	Continue to attend training as part of Co-permittee group. Ongoing through 2016-2021 permit cycle.
BMP No. D.5- Stormwater Hotline			
Milestone for Reporting Year: Madison County will continue to provide support to communities with communicating hotline requests.			
	Madison County received numerous hotline calls during the reporting period. Many complaints are addressed by the communities prior to calls to the hotline.	X	Madison County will continue to provide support to communities by communicating hotline requests. Ongoing through 2016-2021 permit cycle.
BMPs No. D.6 and E.5- Training for Construction Site Inspectors			
Milestone for Reporting Year: Madison County sponsored training courses for construction site inspectors. The courses addressed specific technical issues regarding construction site runoff as well as post development.			
	The City has one CESSWI certified inspectors on staff. Staff attends inspection of construction sites throughout the year. Review for CESSWI requirements and continuing education opportunities for Co-Permittee members was provided during quarterly meetings.	X	The Co-Permittee group will continue to explore opportunities for additional training seminars. Ongoing through 2016-2021 permit cycle.

IEPA Annual Report for Stormwater Discharges from MS4 Communities- Period: March 2017 through March 2018

A. Changes to Best Management- Were there any changes to the BMPs?	Y	N	B. The status of compliance with the permit, the appropriateness of the BMP and progress towards achieving reduction of discharged pollutants to the MEP, and identified measurable goals for each of the minimum control measures.	C. Provide results of information collected and analyzed, including monitoring data. Information attached? If attached information, describe.	Y	N	D. Summarize the stormwater activities you plan to undertake with an implementation schedule
Comment							Activity Schedule
BMP No. F.1- Employee Training Program							
Milestone for Reporting Year: The Co-Permittee Group will hold and Operations Training class as part of continuing education opportunities.							
			The City sent 1-2 representatives to each quarterly meeting.	See Page 10 and attached Exhibit B.6/ F.1 A for review of meetings and topics.			The Co-Permittee Group will continue to offer Operations Training and other educational and training opportunities throughout the permit year.
X			The Madison County Health Department held Larvicide Application Training for municipalities and townships on April 26, 2017 covering the application of larvicide briquettes.		X		Ongoing through 2016-2021 permit cycle.
BMP No. F.2- Monitoring, Sampling, & Inspection Requirements - Inspection and Maintenance Program							
Milestone for Reporting Year: Evaluate storm water quality and impacts with quarterly visual inspections of outfall points.							
			The discharge monitoring testing locations is the creek under Old Poag Road bridge.				Ongoing through 2017-2021 permit cycle.
X			1 st Quarter Test on: No test - program not started 2 nd Quarter Test on: city approved ampling June 23, 2017 3 rd Quarter Test on: October, 23, 2017 4 th Quarter Test on: March 21, 2018		X		Operation procedures will be reviewed annually and modified as appropriate.
BMP No. F.3- Other Municipal Operations Controls- Standard Operating Procedures							
Milestone for Reporting Year: Operation procedures for street department activities were reviewed and modified as needed. Co-Permittee meetings included reference to review and update requirements.							
			Stormwater operation procedures were reviewed during the permit year and modified as needed.				Ongoing through 2016-2021 permit cycle.
X					X		Operation procedures will be reviewed annually and modified as appropriate.

COMMUNITY NAME: City of Edwardsville

PERMIT #: ILR400186

EPA Annual Report for Stormwater Discharges from MS4 Communities- Period: March 2017 through March 2018

ADDITIONAL INFORMATION

BMP A.4	<p>Water Quality Oriented Public Events - Water Festival See attached Exhibit A.4-A.</p>
BMP A.4	<p>Water Quality Oriented Public Events - Mississippi Earthtones Festival See attached Exhibit A.4-B.</p>
BMP A.4	<p>Water Quality Oriented Public Events - Riverbend Earth Day Festival See attached Exhibit A.4-C.</p>
BMP A.4	<p>Water Quality Oriented Public Events - Grow Native Event See attached Exhibit A.4-D.</p>
BMP A.6	<p>Classroom Educational Materials - Madison County Soil and Water District The Madison County Soil and Water Conservation District assists with the educational requirements through a number of initiatives. They provide historic aerial maps, flood maps, topography maps, soil type maps, and other data resources. These resources are used by students, developers, environmental and engineering firms, and individuals. The Soil Survey for Madison County was digitized in 2002 and is now available at no cost. Each year the Soil and Water District provide monetary awards to the best conservation 4-H project at the Madison County Fair. This has allowed school aged children to learn different methods of conservation and how it could potentially benefit stormwater quality and quantity. The Madison County Soil and Water District also supplies literature to schools and organizations for Earth Day and Arbor Day. The literature includes themes such as conservation and stormwater. Through funding from the Madison County Farm Bureau, the University of Illinois Extension Office, and the Madison County Soil and Water District, an educational coordinator works to deliver presentations and supply schools with literature related to stormwater pollution.</p>
BMP A.6	<p>Classroom Educational Materials - Madison County Green Schools Program Madison County schools operate a Green Schools program which educates children about the need to recycle and explore "greener" options in many facets of their lives, as well as operating large scale recycling programs. See attached Exhibit A.6 for additional details.</p>
BMP B.6/F.1	<p>Stakeholder Meetings - Co-Permittee Group Training Opportunities The Madison County MS4 Co-Permittee Group held four quarterly training meetings during the 2017-2018 permit year. Topics covered included a review of proposed changes Phase II requirements in the third MS4 permit cycle, outfall mapping, illicit discharge detection and elimination, operations training, and annual report requirements. See attached Exhibit B.6/F.1-A. Madison County Health Department conducted larvicide training for municipal and township employees during 2017. See attached Exhibit B.6/F.1-B.</p>
BMP B.7	<p>Community Events Throughout the year, Madison County sponsored many community events that could positively impact stormwater quality. These activities encourage public participation to prevent pollutants from getting into the sanitary and storm sewer system. The pharmaceutical drop-off program included twelve police departments in the County where citizens can dispose of expired or unwanted medication year round properly rather than flushing down the drain or dumping into landfills. In addition, Madison County also sponsored a Drug Take Back Day in April and October 2017.. See attached Exhibit B.7-A.</p>

COMMUNITY NAME: City of Edwardsville

PERMIT #: ILR400186

IEPA Annual Report for Stormwater Discharges from MS4 Communities- Period: March 2017 through March 2018

ADDITIONAL INFORMATION

BMP B.7	<p>Community Events</p> <p>Madison County managed a Christmas Tree recycling program in conjunction with area public works and township highway departments from late December 2017 to mid January 2018. There were 30 locations open to the public that collected 1,065 trees. The trees were chipped for mulch in and used by public works departments for parks or in ponds for fish bedding. See attached Exhibit B.7-B for additional details.</p> <p>APWA sponsored an electronic waste collection in September 2017 where residents could bring cell phones, computer towers, laptops, servers, fax machines, and many other electronic items for free disposal. See attached Exhibit B.7-C.</p> <p>Madison County Sponsored a tire recycling collection in October 2017 with a total of 41 participating government entities recycled approximately 12,000 tires. See attached Exhibit B.7-D.</p> <p>Madison County sponsored a household hazardous waste collection in June 2017 where illinois residents could bring paints, gas, oils, degreasers, fluorescent bulbs, and other household hazardous waste items for free disposal. See attached Exhibit B.7-E.</p>
BMP B.7	<p>Other Public Involvement</p> <p>Madison County is starting to implement watershed plans to reduce flooding and improve water quality throughout the County. Major components of the plan and process include watershed resource inventories of existing conditions, watershed based plans for improvements, and public/stakeholder involvement. See attached Exhibit B.7-F and B.7-G for more details.</p>
BMP B.7/C.5	<p>Community Clean Up Days</p> <p>Madison County and the Village of New Douglas hosted a community clean-up day on June 9 and 10, 2017. See attached Exhibit B.7/C.5.</p>
BMP D.2	<p>Erosion and Sediment Control BMP's</p> <p>Madison County sponsored an Erosion and Sediment Control Field Day on March 9, 2018 to provide additional training to professionals in the community on various storm water controls. See attached Exhibit D.2-A.</p>
BMP D.6/E.5	<p>Training for Construction Site Inspectors - Cover Crop Workshop</p> <p>Madison County sponsored a Cover Crop Workshop in December 2017 and March 2018 to provide residents and farmers with a hands-on look at various cover crop applications. See attached Exhibit D.6/E.5-B.</p>
BMP F.1	<p>Employee Training Program</p> <p>Madison County attended the 2018 Illinois Association for Floodplain and Stormwater Management Annual Conference on March 14th and 15th, 2018. See attached Exhibit F.1.</p>

ADDITIONAL COMMUNITY ACTIVITIES

Community Name: City of Edwardsville

Permit #: ILR400186

List any additional community-sponsored activities performed between March 2017 and March 2018 not listed in *Notice of Intent (NOI)* submittal, but which addresses one of the six minimum control measures:

- Madison County facilitated year-round recycling drop-off at 7 locations within the County. Approximately 590 tons of recycling was processed during the permit year.
- Madison County managed a Christmas tree recycling program from December 26, 2017 to January 15, 2018 at 30 locations throughout the County during which 1,065 trees were collected. The trees were chipped for mulch and used by public works departments for parks or in ponds for fish bedding.
- Twelve police departments in the County, including the Madison County Sheriff's department, participate in the pharmaceutical drop-off program where citizens can dispose of expired or unwanted medication year-round properly rather than flushing down the drain or dumping into landfills. The Sheriff's Department disposed of 5,040 lbs in 2017. In addition, Madison County also sponsored Drug Take Back Days in April and October 2017.
- Madison County managed a tire recycling program in conjunction with 21 municipalities and 20 townships on October 17th and 18th, 2017. 100.88 tons, approximately 8,000 tires were collected.
- The City has a contract through Republic Services to hold a large item pickup, recycling programs, and a yard waste pickup.
- The City maintains one (1) 20-cy and two (2) 8-cy dumpsters at their M Street facility for trash and debris cleaned from ditches and roadways. These dumpsters are emptied on a weekly basis.
- As part of regular maintenance, the City cleaned 265 catch basins/inlets.
- The City cleaned 242 miles of streets. The City disposed of the wastes into a dumpster at the M Street facility.
- The City cleaned 600 stormwater grates and 144 culverts during the permit year.

Circle which minimum control measure addressed:

- ①. Public Education and Outreach
- ②. Public Participation/Involvement
- ③. Illicit Discharge Detection & Elimination
- 4. Construction Site Runoff Control
- ⑤. Post-Construction Runoff Control
- ⑥. Pollution Prevention/Good Housekeeping

E. Reliance on Government Entities for Permit Obligations

The City is part of the Madison County Co-Permittee Group.

F. List of Construction Projects during the Current Reporting Year

Project	Status
Gateway South Extension	Completed
S Buchanan	Completed
New Lakeview Extension	Ongoing
Fire/Police/Public Safety Building	Completed
New Gateway North	Ongoing
Plummer Family Park	Ongoing
Reserve Student Housing	Ongoing
3 rd Avenue	Complete
Olive Street	Ongoing

EXHIBIT A.4-A

2017 Lewis & Clark's 15th Annual Water Festival

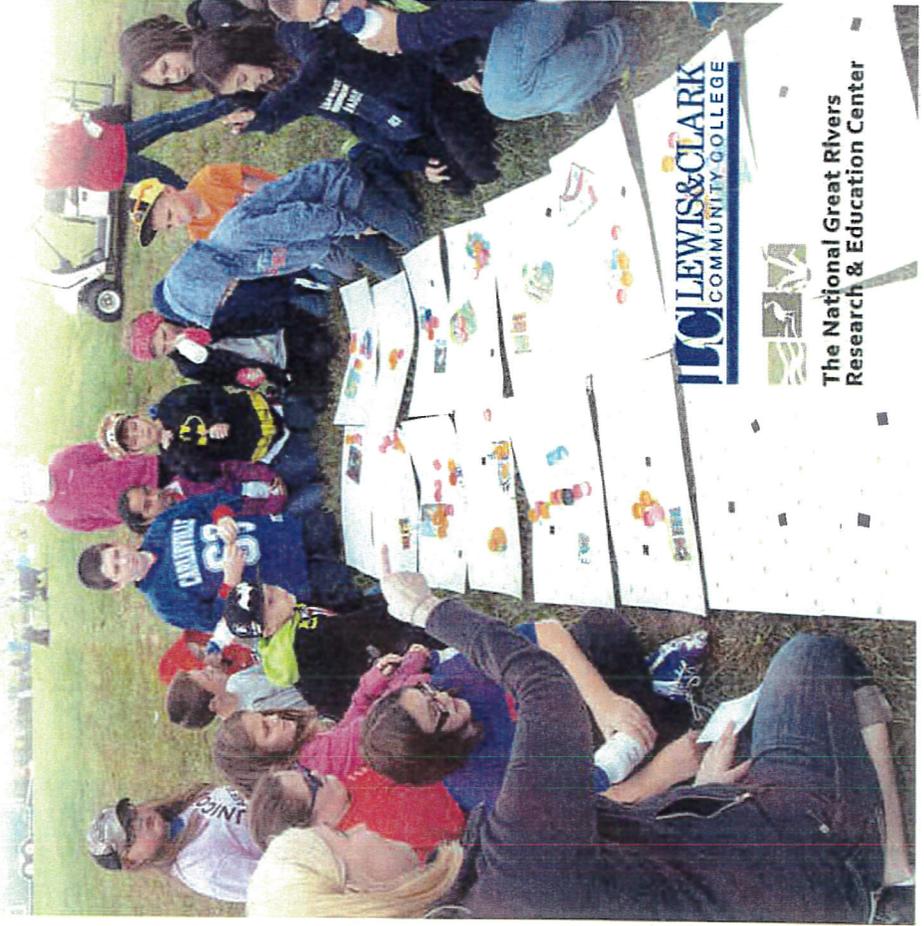


The National Great Rivers
Research & Education Center

LEWIS & CLARK
COMMUNITY COLLEGE

Empowering People

Lewis & Clark's 15th Annual Water Festival



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The National Great Rivers
Research & Education Center

Sponsors

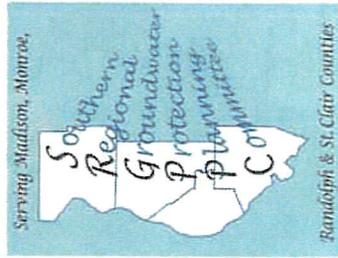
RAINDROP

Pepsi
St. Louis Bread Company
J. L. Nash

POND



RIVER



WOOD RIVER
REFINERY



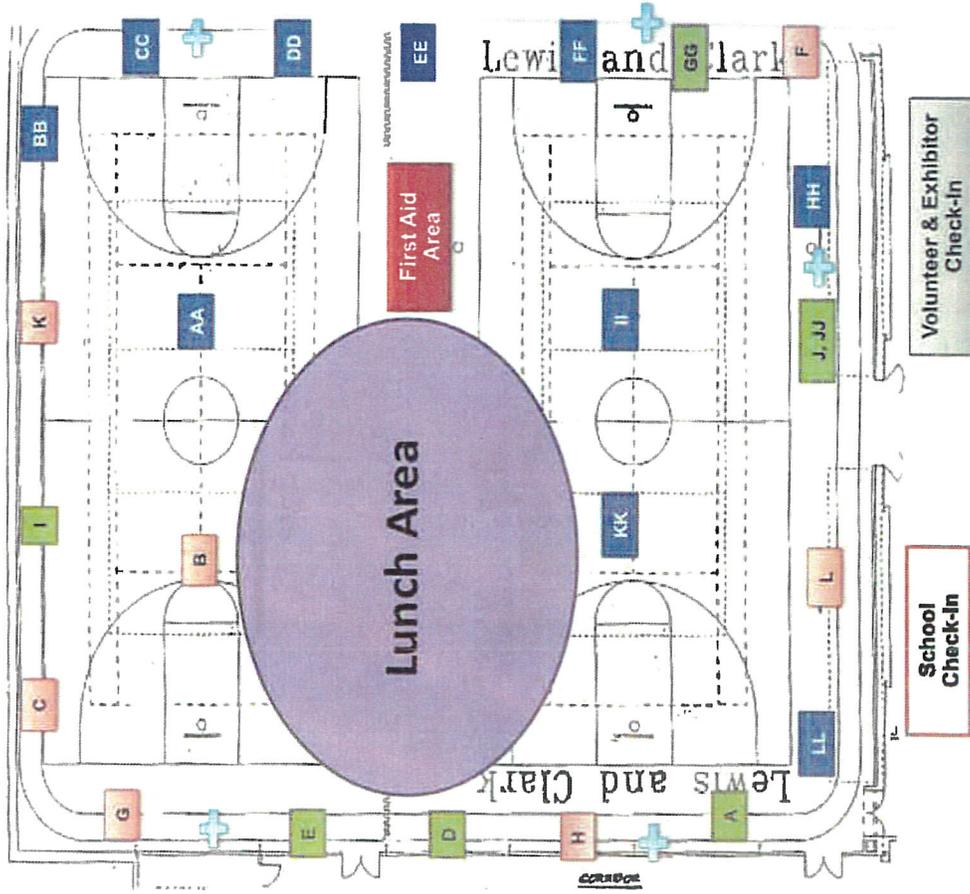
WATERSHED



ILLINOIS
AMERICAN WATER

Indoor Event Map

(in case of rain)



POD #1

POD #2

These activities may be changed or removed due to indoor location.

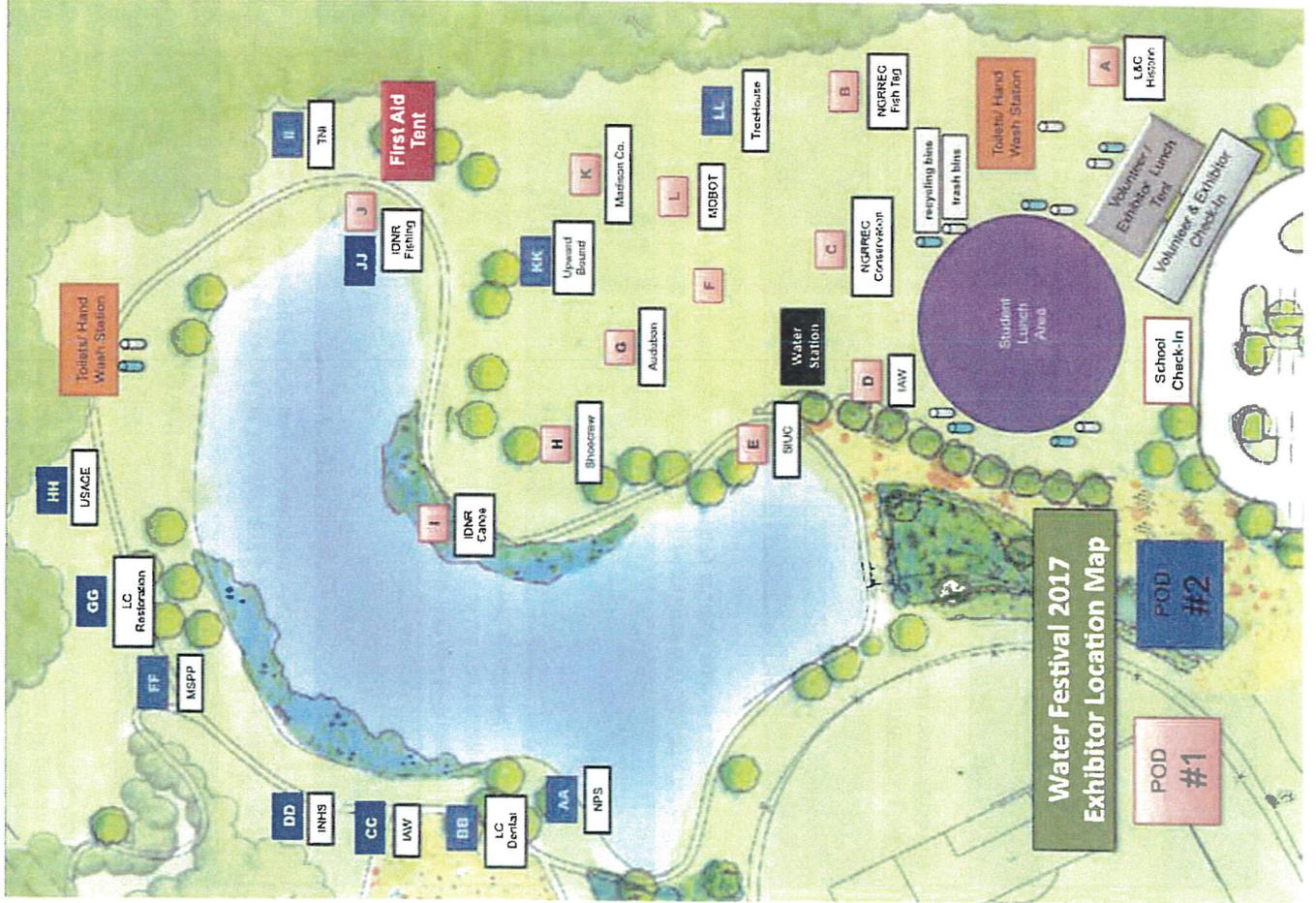
School Check-In

Volunteer & Exhibitor Check-In



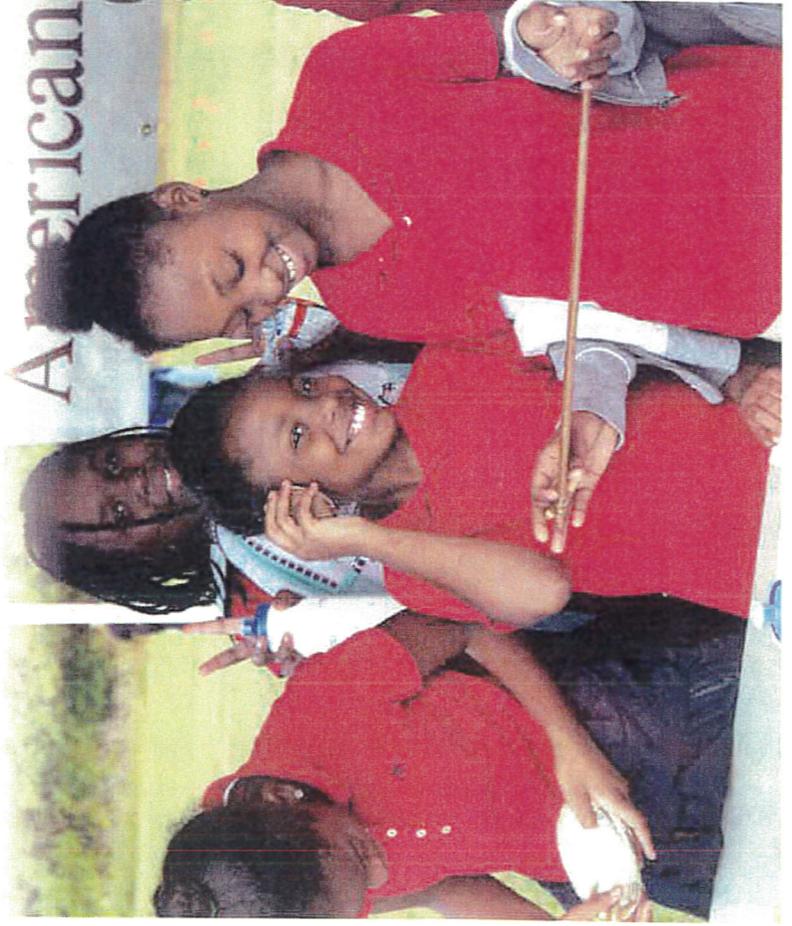
Outlets

Outdoor Event Map



Participating Schools

- Estelle Kampmeyer
- Illini Middle
- Lovejoy Elementary
- Meadowbrook Intermediate
- North Elementary
- Sorento Elementary
- Trinity Lutheran



Thank You

We would like to thank our Watershed Stewardship Committee Partners for their help with this year's Festival and Teacher Workshop:

Illinois Department of Natural Resources

The Nature Institute

Piassa Palisades Sierra Club

U.S. Army Corps of Engineers

Jason Chapman, North Elementary School Teacher

Alan Bruha, L&C Professor

We would also like to acknowledge various other people and departments who have helped to make this event successful:

Dr. Dale Chapman, L&C President

The L&C President's Office

NGRREC Staff

L&C Media Services Staff

L&C Maintenance Staff

L&C Catering Staff

L&C Custodial Staff

L&C Security Staff

L&C Accounting Staff

Barb Van Walleghan, L&C Nurse

Kimberly Ruby, L&C Coordinator of Risk Management

And various volunteers from area high schools, colleges, and the community.



POD 2

Description

After a facilitated discussion about the Lewis and Clark Expedition, the students will play an interactive, situational game that focuses on the trials and tribulations of the Corps of Discovery endured during their epic journey.

A water ring toss. Student will throw rings around water bottles. While completing this activity, we will discuss why water is so important and the beverage of choice versus sugary sodas and juices.

We will use the Enviroscape model to show the importance of protecting our watersheds and will demonstrate in a flask the treatment of water and how we make it suitable for drinking.

Students will learn about the ecological health and water quality of the Mississippi River through discussions about Mississippi River fishes. Students will see preserved fish and mussel specimens and will learn to identify native species.

We will discuss how pollution can affect a waterbody and the tools that the IEPA uses to assess a waterbody. Students will then filter for chlorophyll and use some of the various equipment. We will also talk about macros as biological indicators and see preserved specimens.

The children will be required to participate in a hands-on activity that simulates what a child in the rural part of Guatemala must do to have clean drinking water. The girls will be required to gather water from the pond in milk jugs and the boys will be required to gather small pieces of wood, tie it up, and carry it back to the station.

We will discuss prairie plants and deep root systems and show pictures and diagrams for illustration. We will then do a quick observation exercise looking at insect numbers between two habitats to show the positive correlation on biodiversity.

Students will use GPS receivers to find hidden caches that contain water safety tips. Students will work in groups to figure out where the caches have been hidden and to solve the water safety riddles inside..

Children will go through the water cycle as a "water molecule" rolling "dice" to move through different habitats, animals, plants or water reservoirs collecting beads. The beads demonstrate how water may move or stay in various forms.

Students will learn proper casting while spending time fishing in the campus pond.

Students will learn about watersheds and how materials flow through them from upstream to downstream. They will learn about how pollution and debris travel through the watershed and the connectedness between all communities in the watershed. This lesson is from the Swarovski Waterschool USA Program.

Students will have the opportunity to meet a live bird, a pelican, up close and learn about their natural history. Students will also get to touch items such as feathers and furs.

POD 2

Station	Organization	Map Code	Activity
AA	National Park Service	NPS	The Corps of Discovery
BB	Lewis and Clark Community College Dental Program	LC Dental	Water is Better
CC	Illinois American Water	IAW	Water - From Protecting our Watersheds to Water & Wastewater Treatment
DD	Illinois Natural History Survey	INHS	Fishes of the Mississippi River
EE	Illinois Environmental Protection Agency	IEPA	Tools Used to Assess Illinois' Water Quality
FF	Mustard Seed Peaca Project	MSPP	Raising Awareness of Global Water Needs
GG	Lewis and Clark Community College Restoration Ecology Program	LC Restoration	Prairies - One of Nature's Natural Filters
HH	U.S. Army Corps of Engineers	USAGE	Water Safety Geocache
II	Illinois Department of Natural Resources	TNI	The Incredible Journey
JJ	Illinois Department of Natural Resources	IDNR Fishing	Urban Fishing
KK	Upward Bound	Upward Bound	The Watershed
LL	TreeHouse Wildlife Center	TreeHouse	Waterways and Wildlife

A Brief History:

The National Great Rivers Research and Education Center (NGRREC) at Lewis and Clark Community College (L&C) initiated the first annual Water Festival on the L&C campus in 2002 in response to an assessment of the environmental projects in place at the time. That assessment demonstrated that while there were successful programs focused on middle and high school students, little attention had been directed toward elementary students in our surrounding communities. A working committee with members representing a variety of environmental, educational and business interests was formed to plan and develop what is now L&C's Annual Water Festival.

The committee elected to have two major components of this program: a professional development day for 5th grade teachers and a water activities festival for their students. The teacher workshop provides the teachers with curricular materials, supplies, and the teaching methodology to enhance their water education unit in the classroom. The water festival allows the teachers to bring their students to Lewis and Clark's campus to cycle through a number of activity stations which are organized and supervised by a variety of facilitators from federal, state, county, and local agencies, environmental organizations, education institutions, and local businesses. Attendance to the festival and all materials supplied for the classroom are provided free of charge to the participating classes. This program is run entirely off of sponsorships in the form of monetary and material donations.

For additional information about the event or providing sponsorships for next year's Water Festival, please contact the event coordinator, Allison Rhanor, at (618) 468-2785 or arhanor@lc.edu.



POD 1

POD 1

Station	Organization	Map Code	Activity	Description
A	Lewis and Clark Historic Site	L&C Historic	The Lewis and Clark Expedition - The White Pirogue	The Lewis and Clark Expedition spent its first winter in Illinois at Camp River Dubois. When they departed on May 14, 1804 to begin their 2 and 1/2 year journey, they left with 3 boats; one of which is called the White Pirogue. Students will get a chance to see a replica of this boat and learn about the expedition.
B	National Great Riveres Research and Education Center	NGRREC Fish Tag	Life and Death in Aquatic Ecosystems	In an advanced hide-and-seek game, students role-play invertebrates, planktivorous fish, and piscivorous fish foraging for nutrition. After the game, there is a debriefing session to recognize and evaluate students' animal-like strategies, their adaptations, and human impacts on habitat quality and food chains.
C	National Great Riveres Research and Education Center	NGRREC Conservation	Conservation in Watershed Landscapes	View and participate in a simulation model of a working agricultural landscape. Students will learn about both point and non-point sources of pollution across different land use practices, with a focus on agricultural land use. NGRREC's land conservation specialists will share their experience working with landowners to encourage the use of conservation practices within the agricultural landscape.
D	Illinois American Water	IAW	Water Treatment and Beyond	We will teach students about the water cycle, water treatment, water conservation, and the importance of keeping our waterways clean. We will also show students how to perform some simple water tests at our station
E	Southern Illinois University Carbondale Freshwater Ecology Lab	SIUC	Collect Bugs Like a Scientist!	Student use nets and bare hands to search the Lewis and Clark Community College's north pond for aquatic macrovertebrates (water bugs). Captured bugs will be identified and used to assess water quality.
F	Upward Bound	Upward Bound	Water Within and Around Us	This activity will connect students to the importance of water on a global scale. They will learn about important rivers around the world, and the word "water" in other languages. Students will draw a picture of what water means to them that could be understood by people living in a different country where a different language is spoken. This lesson is from the Swarovski Waterschool USA Program
G	The Audubon Center at Riverlands	Audubon	Oil Spill	Students will explore the effects of a mock oil spill in a pond setting. They will focus on examining the effects oil has on plants and birds (bird feathers). Additionally, participants will learn why bird feathers must stay clean and well-conditioned and discover how oil in water can harm birds.
H	Shoecrew Water Projects	Shoecrew	Water Walk Challenge	Students will get a small taste of what people in developing parts of the world have to go through to get water. They will carry water a short distance through a minor obstacle course. Along the way, they will learn about the distances people travel to get water, the conditions of the water that is being collected, and what can happen if the community is given better access to clean water.
I	Illinois Department of Natural Resources	IDNR Canoe	Canoeing with IDNR	Students will spend time paddling our campus pond in a voyager canoe, with the Pere Marquette State Park Interpretive Program Coordinator, Scott Istringhausen of the Illinois Department of Natural Resources. During this station, students will learn about the historic use of these large canoes.
J	Illinois Department of Natural Resources	IDNR Fishing	Urban Fishing	Students will learn proper casting while spending time fishing in the campus pond.
K	Madison County Government, Planning and Development Dept.	Madison Co.	Greening Madon Co.ny	Students will discuss and participate in two hands-on activities to visually demonstrate the impact development and stormwater management have on a mock riverfront development/water-shed.
L	Missouri Botanical Gardens.	MOBOT	Polluting the Forest	Using a fun, interactive game, students will explore the impact polluted water can have the plants in a forested ecosystem and how that impact resonates throughout an entire food web over a period of time.

EXHIBIT A.4-B

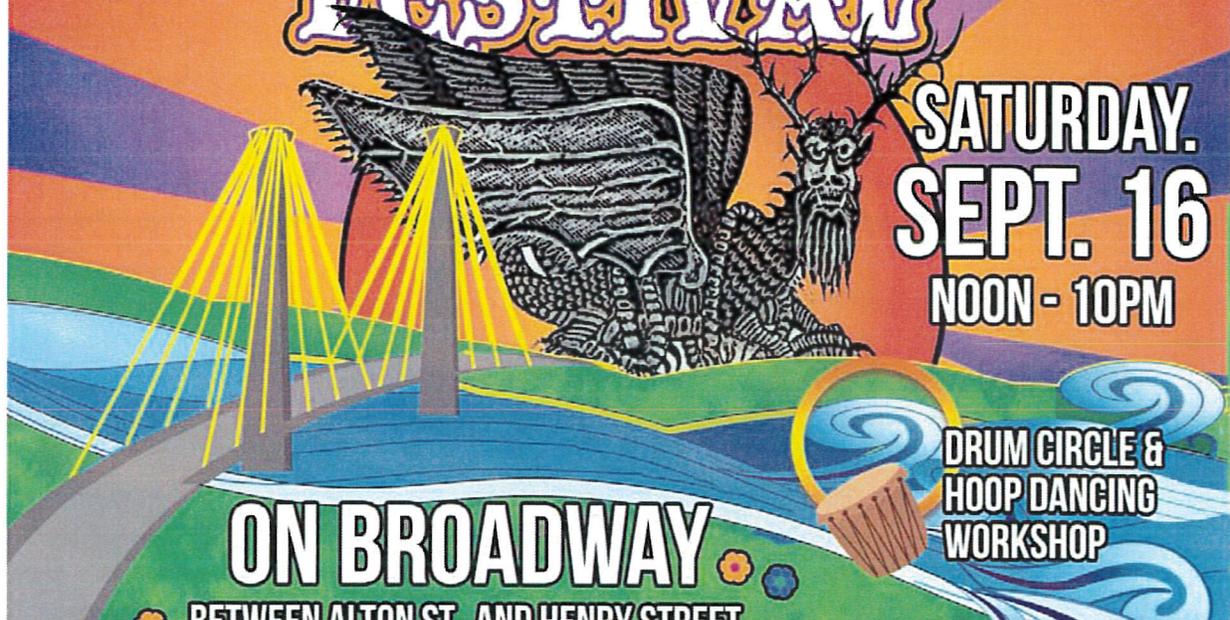
2017 11th Annual Mississippi Earthtones
Festival

11TH ANNUAL

MISSISSIPPI EARTH TONES FESTIVAL



**SATURDAY.
SEPT. 16
NOON - 10PM**



**DRUM CIRCLE &
HOOP DANCING
WORKSHOP**

ON BROADWAY

BETWEEN ALTON ST. AND HENRY STREET

PARKING AVAILABLE ON THE RIVER SIDE OF 67
JUST CROSS THE WALKING BRIDGE TO ALL THE FUN

LIVE MUSIC ALL DAY



JAKE'S LEG - GRATEFUL DEAD TRIBUTE
HIDEOUS GENTLEMEN - AMERICAN BOTTOM ROCK
AHNA SCHOENHOFF - RHYTHMIC BLUES SINGER-SONGWRITER
THE MELLOW D'S - FUNKY JAM ROCK
AMALGHEMY - EARTH RHYTHMS
FORAKER HARBISON - BLUESY GROOVE DANCING TUNES
BOB & ME - JAZZ

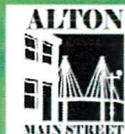
CELEBRATE OUR RIVER

THROUGH ART, MUSIC
AND CONSERVATION

- ◆ ENVIRONMENTAL EXHIBITS
- ◆ FAMILY FRIENDLY ACTIVITIES
- ◆ EARTH FRIENDLY PRODUCTS & SERVICES
- ◆ NATURE INSPIRED - ARTISAN MADE WARES
- ◆ GREAT SELECTION OF LOCAL FOOD AND BEVERAGES
- ◆ SHOP LOCAL AT INDEPENDENT BUSINESSES
- ◆ RECYCLED FASHION SHOW AT 12:30PM

**REGISTER FOR THE RIVER LITTER CLEAN-UP
SATURDAY 9/23 9AM-NOON**

PRESENTED BY:



THANKS TO ALL OUR SPONSORS!

DOWNTOWNALTON.COM

[f /EARTHTONESFESTIVAL](https://www.facebook.com/EARTHTONESFESTIVAL)



AdvantageNEWS

THE TELEGRAPH

WBGZ 1570-94.3 AltonDailyNews.com

RIVERBENDER.COM

bluff city grill restaurant & bar

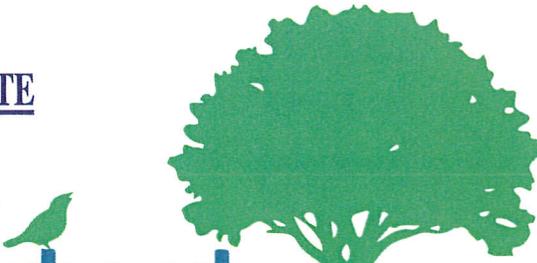
EXHIBIT A.4-C

2017 6th Annual Riverbend Earth Day Festival



6th Annual

Riverbend earth day Festival



**FREE
Admission!**
Open to the Public
RAIN OR SHINE!

NOON TO 6 P.M.

**SATURDAY
APRIL 29**

- Local Entertainment
- Artisans Market
- Environmental Education
- Tasty Food Vendors
- Much More!

NEW LOCATION

OLD BAKERY

BEER CO.

400 LANDMARKS BLVD. ALTON, IL

Sponsored By:



LEONARD F. BERG, ATTORNEY AT LAW

STATE REPRESENTATIVE DAN BEISER

SENATOR BILL HAINE



Partners:



The National Great Rivers
Research & Education Center

Meeting of the
GREAT RIVERS
ALL AROUND ALTON, ILLINOIS



EXHIBIT A.4-D

2017 Grow Native Event



Save the Date!

Friday, March 16, 2018

Lewis and Clark Community College

5800 Godfrey Road
Godfrey, IL 62035

Native by Design: Woody Plants and Pollinators

7:30 am – 12:30 pm

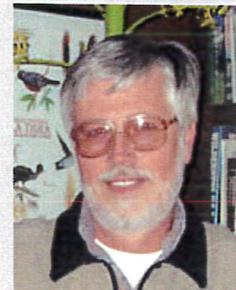
Cost: \$35 – includes breakfast

CEUs available for Landscape Architects and IL MGs/MNs

Agenda:

- 7:30 am – Registration & Breakfast
- 8:00 am – Opening Keynote Presentation: Guy Sternberg
- 9:00 am – Break
- 9:15 am – Plenary presentations
- 10:00 am – Break
- 10:15 am – Plenary presentations
- 11:00 am – Closing Keynote Presentation: Jennifer Schamber

Featuring keynote presentations by **Guy Sternberg** and **Jennifer Schamber**

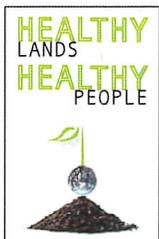


Guy Sternberg is a certified arborist and a retired landscape architect. He served on the staff of the Illinois Department of Natural Resources for thirty-two years and currently is the owner and manager of Starhill Forest Arboretum, which holds one of the most extensive oak genus (*Quercus*) living reference collections in North America.

Presented by the Grow Native!
Southwestern Illinois Event Committee:



UNIVERSITY OF ILLINOIS
EXTENSION



The National Great Rivers
Research & Education Center



Jennifer Schamber is the General Manager of Greenscape Gardens in St. Louis, Missouri. She currently serves on the board of the Western Nursery & Landscape Association and is a writer for the Gateway Gardener Magazine. She received a bachelor's degree in Business Administration from St. Louis University and studied horticulture at St. Louis Community College-Meramec.

For more information, call 888.843.6739 or
email grownative@moprairie.org

Grow Native! is a program of the Missouri Prairie Foundation

Resource Education Program

Resource Education – March 2017-March 2018

1. 1,800 pounds of tab tops recycled, representing that aluminum recycling is happening in students' homes.
2. 8,000 pounds of shoes collected for ShoeCrew Water Projects; proceeds go towards providing wells and water filtration devices in water-stressed areas.
3. 5,100 pounds of plastic bags recovered and sent to plastic lumber manufacturers, such as Trex
4. 200 cell phones recycled or refurbished
5. 300 pounds of metal keys collected for cash redemption by Lion's Club, which uses proceeds to hearing and vision health programs for young children who demonstrate financial need
6. Roughly 500 students county-wide participated in "Transformations"
7. Over 1,000 students participated in the "Clean Air Bookmark" competition
8. \$14,000 given out in Green Seed Grants for school gardens, water bottle refilling stations, and school composting and waste-reduction programs
9. Additionally, schools held used book exchanges, textile drives, continued school gardening programs, conducted used Christmas light drives, as well.

EXHIBIT B.6/F.1-A

Madison County MS4 Co-Permittee Group
2017-2018 Quarterly Meeting Agendas

AGENDA

MS4 (Quarterly) Co-Permittee Group Meeting

Wednesday June 21, 2017 9:00 AM

Madison County EMA

101 E. Edwardsville Rd.

Wood River, IL. 62095

Introductions

Watershed Plans - Update

1. Silver Creek - 319 Grant
2. Cahokia-Indian-Canteen Creek
3. American Bottoms – Flood Survey (Ends June 30th)
www.surveymonkey.com/r/americanbottomflood

Presentation

4. Update from last year's Mayer Rd. Demo
5. Brochure Update
6. Six Minimum Control Measures
 - a. Post Construction Runoff Controls
 - b. Pollution Prevention/Good Housekeeping
7. Outfall Mapping
8. Storm Sewer Mapping – New
9. Outfall Monitoring, Sampling & Inspections
 - a. Monitoring & Sampling- Dom
 - b. Dry Weather Inspections for Illicit Discharges

MS4 Audits Update

10. Village of Bethalto-Performed 5/24/17
11. City of Edwardsville-Performed 3-23-17
12. Upcoming Audits for 2017
 - a. Collinsville?
 - b. Glen Carbon?
 - c. East Alton?

Discussion

13. New FEMA Flood Risk Mapping-what's the latest
14. The "Macho Minute"

Down the Road

15. Larvicide Training Workshop – June 28th Manley Auditorium
16. Next Meeting: Wednesday September 13, 2017 at 9am

AGENDA

MS4 (Quarterly) Co-Permittee Group Meeting
Wednesday September 13, 2017 9:00 AM
Madison County EMA
101 E. Edwardsville Rd.
Wood River, IL. 62095

Introductions

Watershed Plans - Update

1. Silver Creek - 319 Grant
2. Cahokia-Indian-Canteen Creek
3. American Bottoms – Flood Survey Preliminary Results

MS4 Audits Update

4. Recently Completed Audits for FY2017
 - a. Godfrey
 - b. Collinsville
 - c. Hartford
 - d. Glen Carbon
 - e. SIUE
 - f. Granite City
5. *For 2018*
 - a. East Alton
 - b. City of Madison
 - c. Pontoon Beach
 - d. Nameoki Township
 - e. Roxana
 - f. Troy
 - g. Moro Township
 - h. Marine Township

Discussion

6. New FEMA Flood Risk Mapping-what's the latest
7. Storm Sewer Mapping – New
8. Outfall Monitoring, Sampling & Inspections
 - a. Monitoring & Sampling
9. Dry Weather Inspections for Illicit Discharges

Presentation

10. Six Minimum Control Measures
11. Kim Petzing-Resource Management Coordinator & Eve Drueke-Resource Education Coordinator (Overview and updates of their respective programs)
12. Troy Turner-City of Collinsville (Outreach & Education Program)

Down the Road

13. LCCC/NGRREC Water Festival Friday September 29, 2017
14. Next Meeting: Wednesday December 13, 2017 at 9am
15. Soil Health & Cover Crop Workshop/Field Days – December 2017 & March 2018
16. CESSWI

17. Soil Health & Cover Crop Workshop/Field Days – November 2017 & March 2018
18. CESSWI

AGENDA

**MS4 (Quarterly) Co-Permittee Group Meeting
Wednesday December 13, 2017 9:00 AM
Madison County EMA
101 E. Edwardsville Rd.
Wood River, IL. 62095**

Introductions

Watershed Plans - Update

1. Silver Creek - 319 Grant
2. Cahokia-Indian-Canteen Creek
3. American Bottoms – Open House 12/13/17

MS4 Audits Update

4. Recently Completed Audits for FY2018
 - a. Troy
 - b. Moro Township
5. **For 2018**
 - a. East Alton
 - b. City of Madison
 - c. Pontoon Beach
 - d. Nameoki Township
 - e. Roxana
 - f. Marine Township

Discussion

6. New FEMA Flood Risk Mapping-what's the latest
7. Cover Crop Field Day – December 7, 2017

Presentation

8. Six Minimum Control Measures
 - a. Construction Site Sediment & Erosion
 - b. Inspectors
 - c. Inspections
 - d. SWPPPs

Down the Road

9. Next Meeting: Wednesday March 14, 2018 at 9am
10. Grow Native Workshop & Presentations March 16, 2018

AGENDA

MS4 (Quarterly) Co-Permittee Group Meeting
Wednesday March 28, 2018 9:00 AM
Madison County EMA
101 E. Edwardsville Rd.
Wood River, IL. 62095

Introductions

Tony Schenk – Gonzalez Companies

Watershed Plans - Update

1. Silver Creek - 319 Grant – BMP Tour July 13th
2. Cahokia/Indian/Canteen Creek – Landowner/Farmer Survey
3. American Bottoms – Water Resource Inventory (WRI)

MS4 Audits Update

4. Recently Completed Audits for FY2018
 - a. Pontoon Beach
 - b. East Alton
 - c. Nameoki Township
 - d. Roxana
 - e. Marine Township
5. Scheduled Next
 - a. City of Madison (April 5th)

Past Events Round-Up

6. Cover Crop Field Days
7. Sediment & Erosion Control Workshop
8. Grow Native Event

Upcoming Events

9. Shred Event (April 21st Senior Services Plus & Madison County Sheriff's Office)
10. Larvicide Training (April 26th Manley Auditorium)
11. ICS 300 & ICS 400 Training (August 4-5 & August 11-12, 2018)

Discussion

12. Annual Reports
 - a. Data Collection – Formats
 - b. Dates & Deadlines
13. New approach - Lunch & Learn Meetings

Down the Road

14. Next Meeting: Wednesday June 13, 2018 at 9am

EXHIBIT B.6/F.1-B

Madison County Health Department
2017 Municipal Larvicide Training



Madison County Government
Health Department

Toni M. Corona · Public Health Administrator
101 East Edwardsville Road · Wood River, IL 62095-1332
Phone (618) 692-8954
Faxes (618) 692-8905 Admin (618) 296-7011 Nursing (618) 251-9482

Kurt Prenzler, CPA
County Board Chairman

IMPORTANT NOTICE

TO: Municipal Government Officials, Township Supervisors,
and Public Works Directors

FROM: Mary Cooper, L.E.H.P.
Health Protection Division Manager

DATE: March 29, 2017

RE: One-Hour Larvacide Training for Municipal Employees

The Illinois Department of Agriculture requires any municipal employee who applies pre-packaged solid larvacides for mosquito control and who is not a licensed pesticide applicator attend annual training. Those who receive one-hour training may only make applications during the calendar year in which the training was received.

Madison County Health Department is offering a one-hour larvacide training clinic for municipal and township employees on Wednesday, April 26, 2017 at 9:00 a.m. at the Madison County Wood River Facility. This training is an annual requirement for employees who will be applying these specific larvacides and who are not licensed applicators.

In addition, EPA Notice of Intent will be required to dispense larvacide in water within the United States. Steve Brendel with Madison County Planning and Development will provide training on how to submit the required Notice of Intent at the larvacide training.

Wednesday, April 26, 2017
Madison County Wood River Facility
Manley Auditorium
(Enter building at the main Health Department Entrance at front of building)
101 East Edwardsville Road
Wood River, IL 62095

Training course promptly begins at 9:00 a.m.

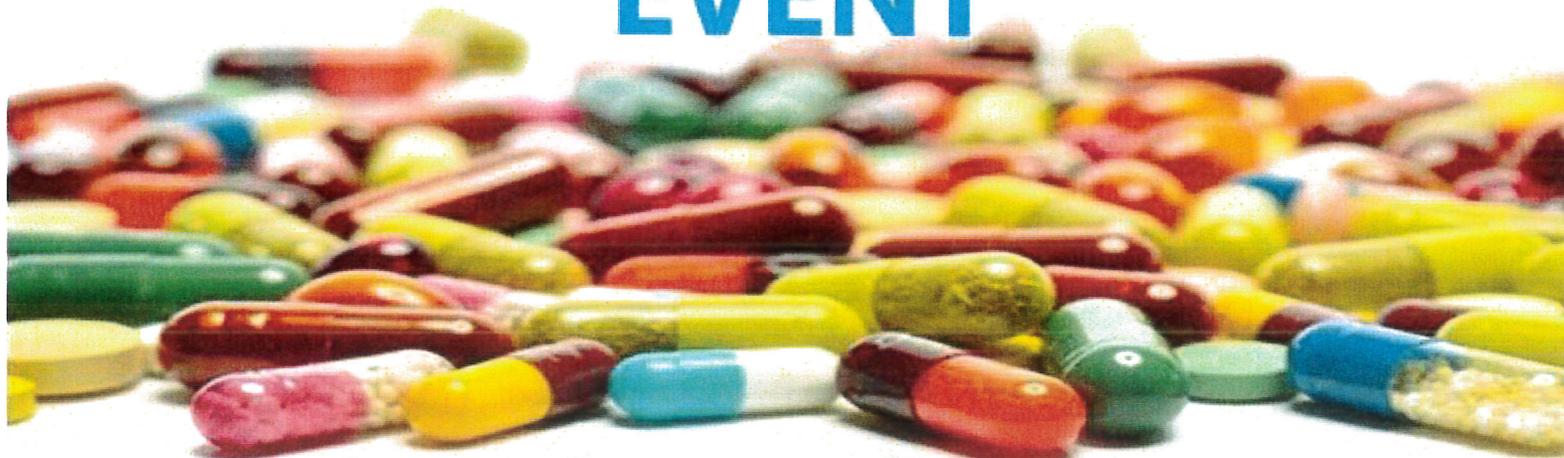
There is no cost to attend this training. To register by phone, please call (618) 296-6079 or e-mail kasemanisin@co.madison.il.us.

If an employee is interested in becoming a licensed pesticide applicator, please call the University of Illinois Extension's Pesticide Applicator Training (PAT) program at (800) 644-2123 for clinic dates and locations.

EXHIBIT B.7-A

2017 Prescription Drug Take Back

PRESCRIPTION DRUG TAKE-BACK EVENT



**Saturday, April 29, 2017
10 am – 2 pm**

**Madison County Administration Building
157 N. Main St.
Edwardsville, IL 62025
(In the back parking lot)**

Turn in your unused or expired medication for safe disposal.

GotDrugs?



We will accept:

- ✓ Prescriptions
- ✓ Over the counter pills
- ✓ Liquid medications
- ✓ Vitamins

We won't accept:

- ✗ Needles and Sharps
- ✗ Asthma inhalers
- ✗ Oxygen tanks
- ✗ Mercury thermometers



**Sponsored by:
State's Attorney Tom Gibbons, Sheriff John Lakin,
Coroner Steve Nonn, the U.S. DEA, and
Partnership for Drug-Free Communities.**



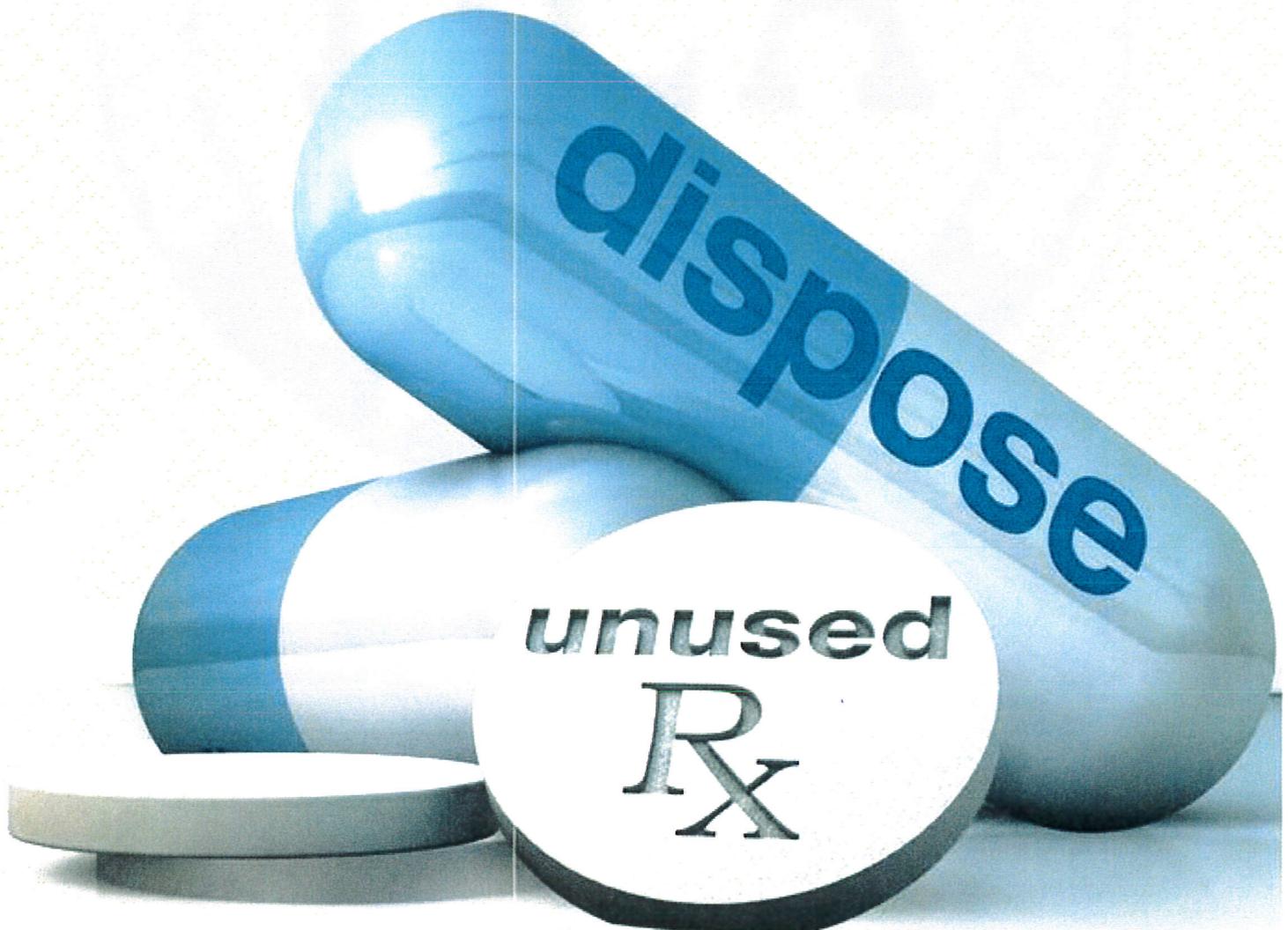
For More Information: (618) 692-6280 | <http://www.madco-sa.org>

DRUG ENFORCEMENT ADMINISTRATION

National Prescription Drug **TAKE BACK DAY**

Saturday, October 28th
10 a.m. – 2 p.m.

**Turn in your unused or expired
prescription medication
for safe disposal.**



Visit www.dea.gov or call 800-882-9539
for a collection site near you.

EXHIBIT B.7-B

2017-2018 Christmas Tree Recycling

2017 Madison County Christmas Tree Recycling Drop-Off Locations

- Trees will be accepted from Tuesday, December 26, 2017 through Monday, January 15, 2018.
- As trees will be chipped for mulch, all lights and ornaments must be removed prior to drop-off.
- Pine wreaths, pine roping, or other landscape waste is prohibited.



Municipality/Township	Drop-Off Locations	Address	Curbside Pick-Up?	Comments
Alhambra/Alhambra Township	Village Maintenance Shed	421 Elm St, Alhambra	No	
Alton		#1 Emma Kaus Ln, Alton	Yes	
Collinsville	Jaycee Sports Complex	198 Complex Dr, Collinsville	No	By the water plant
	Collinsville City Garage	850 S Morrison, Collinsville	No	
	Woodland Park	Olive St, Collinsville	No	Between the baseball diamonds, near the restrooms
Collinsville Township	Collinsville Township Road District	1408 N Bluff Rd, Collinsville	Yes, unincorporated Collinsville Township only	
Edwardsville	Winston Brown Recreation Complex	1325 Schiller Avenue	No	Hoppe Park, West end of parking lot
Edwardsville Township	Township Community Park	6368 Center Grove Rd, Edwardsville	No	Live tree collection Dec 25-Jan 31, remove all lights & decorations, no wreaths
Fort Russell Township	Highway Garage	112 Clover St, Moro	No	
Foster Township	Township Garage	4754 Fosterburg Rd, Alton	No	Behind Foster Township highway garage

Glen Carbon	Fire Station Number 1 parking lot	Danzer Dr, Glen Carbon	No	Parking lot near Fire Station 1, across from Casey's
Godfrey	Street Dept	6212 Godfrey Rd, Godfrey	No	
Granite City	Granite City Park District	29th & State St, Granite City	No	Accepting trees from Dec 26-Jan 9
Hamel/Hamel Township	Township Highway Dept	403 N Old US Rte 66, Hamel	No	
Hartford	Curbside Pick-Up Only		Yes	
Helvetia Township	Township Shed	12466 Buckeye Rd, Highland	No	
Leef Township	Township Garage	12905 Niggli Road	No	
Madison	Curbside Pick-Up Only		Yes	
Marine Township	Township Shed	620 N Vernon St, Marine	No	
Olive Township	Highway Dept	8363 Frontage Rd, New Douglas	No	
Pin Oak Township	Pin Oak Township Highway Dept	3702 Tosovsky Ln, Edwardsville	No	
Saline Township	Saline Township Shed	3642 George St, Highland	No	
St. Jacob Township	Township Highway Garage	10048 Ellis Rd, St. Jacob	No	

Troy	Tri-Township Park	410 Wickliffe St, Troy	No	
Venice Township	Venice Township Building	910 Madison Ave, Venice	No	On north side of building
Wood River	City Dump	400 Smith Ct, Wood River	No	
Wood River Township	Wood River Township Building	1010 8th St, Cottage Hills		

Updated 1.8.18

EXHIBIT B.7-C

2017 Electronic Waste Collection

Electronics Recycling Drive

The American Public Works Association (APWA) Gateway Branch & CJD E-Cycling are hosting an electronics recycling drive near you!



Saturday,
September 30, 2017



9am - 12pm



Watershed Nature Center
1591 Tower Ave, Edwardsville

Items Accepted:

- Anything with a cord
- Computers, monitors*, printers, cables, & peripherals (keyboards, mice, etc.), video game consoles, DVD players, MP3 players, & iPods
- Fax machines, scanners, converter boxes, cable & satellite receivers, networking equipment, server, telecommunications, phones, cell phones, clocks, etc.
- Home electronics, air conditioners, refrigerators, humidifiers, blenders, toasters, irons, etc.
- VCRs, stereos, & audio/video equipment
- Holiday lights & metal decorations
- Non-ferrous metals & metal office furniture
- Flat screen TVs (any size)
- CRT, Projection, Plasma, & Console TVs*

Items NOT Accepted:

- Hazardous materials
- Non-electronics
- Household smoke detectors
- PCBs (Capacitors, Transformers, Ballast)
- DVDs, CDs, cassette tapes, VHS tapes

* A \$5-\$10 fee will be charged for CRT monitors not accompanied by a tower.

* There is a fee for CRT, Projection, Plasma, & Console TVs ranging from \$5-\$25 depending on size & model.

The APWA Gateway Branch consists of a group of Public Works Directors and their support team, county employees, engineering companies, & manufacturing & construction companies doing work with local municipalities, state, and county government.



EXHIBIT B.7-D

2017 Tire Collection Day



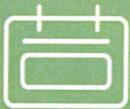
USED TIRE COLLECTION

Illinois Environmental Protection Agency and Madison County are hosting a used tire collection for municipal and township governments in Madison County.

PLEASE NOTE:

This collection is for units of local government **ONLY** and is **NOT** open to the general public.

Event Details:



Tuesday, October 17 &
Wednesday, October 18



8:00 AM - 3:00 PM



Nike Base Storage Facility (Madison County Highway Department)
10241 Fruit Road, Alhambra, IL

NO:

General Public
Off the Road (OTR) Tires
Tire Dealers
Service Stations
Commercial Businesses
Trucking Firms
Contractors

YES:

Municipalities
Townships
Car Tires
Truck Tires
Tractor Tires
Tires on Rims

Sponsored By:

Illinois Environmental Protection Agency
Madison County Planning & Development
Madison County Highway Department
Madison County Board Chairman
Kurt Prenzler, CPA

For more information or questions, call
Kendall at 618-346-5141

2017 Hazardous Waste Disposal



DO YOU HAVE ANY HAZARDOUS WASTE?

BRING US YOUR HOUSEHOLD HAZARDOUS WASTE FOR FREE

Acceptable waste includes:

- Oil based paint
- Paint thinners/stripers
- Gas or oils
- Degreasers
- Yard/Pool chemicals
- Fluorescent bulbs
- Hobby chemicals
- Medicines
- Household cleaners
- Mercury

WHEN: Saturday, June 17, 2017

8:00am—3:00pm

WHERE: Melvin Price Memorial Park

1500 Caseyville Ave, Swansea, IL
(vehicles should enter from the south)

WHO: Any Illinois Resident

Participants may have to wait in their car 10-40 minutes. No walk-ins allowed.

No tires, electronics, latex paint, explosives, fire extinguishers, business, or biohazard waste accepted. For information, call 618-233-7769 or visit www.health.co.st-clair.il.us.

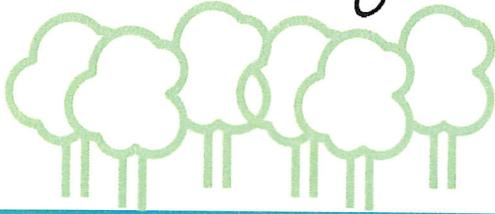
Sponsored by: IEPA, St. Clair County,
Madison County, & the Village of Swansea



EXHIBIT B.7/C.5-A

2017 Community Cleanup Days

New Douglas



Community CLEAN-UP

Madison County and the Village of New Douglas are hosting a community clean-up that is FREE to all Village & Township residents! ID will be required.

Resident Drop-Off Details



Friday & Saturday,
June 9th & 10th



Fri: 1pm-8pm
Sat: 7:30am-2:30pm



95 Huber St
New Douglas, IL

New Douglas Village Shed

Items Accepted:

Demolition Debris
Home Electronics & TVs
Furniture
Household Items
Mattresses
Microwaves
Small Appliances
Air Conditioners
Washers, Dryers, Dishwashers,
Refrigerators, Furnaces
Carpet, Tiles, & Flooring
Lawn Equipment

NOT Accepted:

Business/Contractor Waste
Hazardous Waste/Chemicals
Oils
Paints
Tires
Fire Extinguishers
Landscape Waste
Propane Tanks
Smoke Detectors
Oxygen Tanks

Sponsored by:
Village of New Douglas
Madison County Government
Kurt Prenzler, CPA, Madison County
Board Chairman



PLEASE NOTE:
Assistance for disabled or elderly
curbside pick-up, MUST CALL:
Barbie Bassett
(618) 593-3510
LisaDawn Michheimer
(217) 456-9141

2017 American Bottom Watershed
Summary Report

American Bottom Watershed Plan 2017 Summary Report

HeartLands Conservancy

406 E. Main Street, Mascoutah, IL 62258

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American Bottom Watershed Planning: 2017 Summary Report

In 2017, the Community Flood Survey was distributed and the results compiled in a report that was shared with the public at an Open House event. Steps taken towards the American Bottom Watershed Plan have been checked off in the summary of watershed planning steps below.

A Summary of Watershed Planning Steps

For the American Bottom Watershed Plan

Phase One

- ✓ Determine partners in the plan, Steering Committee, Technical Committee, and Advisory Committees. Identify Plan purpose and create schedule. Identify key stakeholders and determine outreach strategy.
- ✓ Hold Open House events and stakeholder meetings with municipalities, townships, etc.
- ✓ Steering Committee meets/communicates to discuss Phase 1 activities
- ✓ Technical Committee meets to review Phase 1 Plan elements
- Create preliminary goals and objectives
- Corps of Engineers delivers draft and final Watershed Resource Inventory (WRI)
- ✓ Stormwater Commission updated on the progress of the Plan
- ✓ Review documents such as stormwater studies related to the watershed
- Identify issues from stakeholders and WRI
- Advisory Groups meet: review Phase 1 progress & provide input

Phase Two

- Create the Watershed Plan:
 - Refine and set final goals and objectives
 - Identify BMP types which address the issues identified, with their costs and effectiveness
 - Review documents/policies already in place which address these issues
 - Use STEPL (or equivalent tool) to estimate pollutant load reductions with BMPs
 - Set watershed impairments targets (with support from Technical Committee)
 - Design an Information and Education Plan and a Monitoring Plan/monitoring component
 - Use the ACPF to identify BMPs on agricultural land
 - Identify Critical Areas and locations for specific projects
 - Select number and type of BMPs to recommend, and some specific projects
 - Create implementation schedule with milestones and indicators of success
- Steering Committee and Technical Committee meet to discuss Phase 2 activities and Plan elements
- Stormwater Commission and stakeholders updated on the progress of the Plan
- Draft 1 of Watershed Plan submitted to County
- Advisory Groups meet and reviews Phase 2 Plan progress and Draft 1 of Watershed Plan
- Steering Committee reviews Draft 1 of Watershed Plan & provides comments
- Technical Committee reviews Draft 1 of Watershed Plan & provides comments
- Draft 2 of Watershed Plan submitted to County
- Stormwater Commission reviews Draft 2
- Provide updates to stakeholders about Draft 2 (e.g., Open House events, email updates)

- Steering Committee determines final changes and makes recommendation to Stormwater Commission
- Final Watershed Plan (incl. Final WRI) and supporting data submitted to County
- Advisory Groups meet to discuss outreach and Plan implementation

Phase Three and future

- Stormwater Commission makes recommendation to County Board to adopt Plan
- County Board passes resolution adopting Plan
- Monitor Plan progress & make adjustments

The following details are provided about the steps completed to date.

Determine partners in the plan, Steering Committee, Technical Committee, and Advisory Committees. Identify Plan purpose and create schedule. Identify key stakeholders and determine outreach strategy.

In early 2016, the Steering Committee for the Plan (Madison County, HeartLands Conservancy, and the U.S. Army Corps of Engineers) was determined. Roles and responsibilities for a Technical Committee and two Advisory Groups (one for each watershed) were drawn up, and committee/group members were invited to join the groups. A list of stakeholders not yet engaged was drawn up, and contacts were made. An outreach strategy was determined that included further stakeholder meetings, distributing the results of the Flood Survey, and Open House events.

Hold Open House events and stakeholder meetings with municipalities, townships, etc.

The planning team engaged more than 500 individuals from more than 30 entities in 2016. Several individuals and groups that were engaged in 2015 were re-engaged in 2016. Small group meetings allowed attendees to provide locations of floods and other issues on large paper maps, and give detailed input on stormwater issues in the watershed. Presentations at regularly scheduled meetings of organizations such as the Edwardsville Rotary and the East-West Gateway Council of Government’s Water Resources Committee allowed the project planning team to reach larger groups efficiently. In 2017, the Community Flood Survey was created and sent by mail to 2,100 randomly selected addresses in the watershed. The results were compiled and published in a Flood Survey Report that is available at www.heartlandsconservancy.org/americanbottom.php. The Flood Survey results were displayed and discussed at the 2017 Open House event held in December in Pontoon Beach Village Hall. See the Cahokia Creek Watersheds Stakeholder Engagement: 2016 Summary for more information.

Steering Committee meets/communicates to discuss Phase 1 activities

Madison County, HeartLands Conservancy, and the U.S. Army Corps of Engineers were in regular contact with one another about the progress of the watershed planning effort, particularly with regard to the Corps’ Watershed Resources Inventory (WRI).

Technical Committee meets to review Phase 1 Plan elements

The Technical Committee was convened to provide oversight and guidance on the technical aspects of the watershed planning process. Members include Madison County Planning and Development,

HeartLands Conservancy, the U.S. Army Corps of Engineers, Juneau Associates, Inc. (a consultant to Granite City and other jurisdictions in the watershed), the Madison County Emergency Management Agency, the Madison County Soil and Water Conservation District, and the Madison County Highway Department. The group met in November 2017. See the American Bottom Watershed Plan Stakeholder Engagement: 2017 Summary for more information about the items discussed by the Technical Committee, as well as its future responsibilities.

Stormwater Commission updated on the progress of the Plan

Madison County staff met with the Stormwater Commission in 2017 and provided updates on the county's watershed planning efforts, including the Flood Survey and planning efforts in the American Bottom watershed, in relation to the countywide Stormwater Management Plan.

Review documents such as stormwater studies related to the watershed

Several documents were identified in 2017 for review and potential inclusion of information in the Watershed Resources Inventory (WRI) or the Watershed Plan. If the information was best suited to the WRI, it was sent to the Corps of Engineers.

Documents reviewed include the following.

For the Watershed Resources Inventory (WRI):

- **American Bottom River Corridor Resource Inventory**, developed by Southwestern Illinois RC&D, Inc., Southwestern Illinois GIS Resource Center, Greenway Network, St. Charles Rivers & Streams Project with funding provided through the IDNR C2000 Ecosystem Partnership Program. Contains information on water quality, wildlife habitat, wildlife numbers, and vegetation in the study area in the American Bottom (including a portion of the Cahokia Creek watersheds, up to the bluff line).
- **Information provided to Madison County about the December 2015-January 2016 extreme flooding event**, including information on home flooding, mobile home flooding, basement flooding, road flooding, road closures, and Sanitary Sewer Overflows.
- **Stormwater complaints received by Madison County Stormwater Coordinator 2012-2015**, an Excel spreadsheet compiled by Madison County Stormwater Coordinator Steve Brendel and delivered to HeartLands Conservancy in November 2015.
- **FEMA Interagency Hazard Mitigation Team (IHMT) Report**, FEMA 1053-DR-IL, covering the counties of Madison and St. Clair, June 16, 1995. The report examines the amount of rainfall received in the region, and identifies hazard mitigation opportunities.
- **Oates Associates report on flooding in Madison County**, which identifies flooding areas in several communities, roadway overtopping, and suggested mitigation projects.

For the Watershed Plan:

- **Flood Plain/Hazard Management Plan Guidelines for the St. Clair County, Illinois portion of the American Bottoms and Hillside Drainage Area**, prepared for St. Clair County, Illinois by the Southwestern Illinois Planning Commission, October, 1995. This report addresses issues and regulations that relate to flood hazards on a watershed level in St. Clair County, Illinois. The document has 16 recommended goals.

- **East St Louis & Vicinity Ecosystem Restoration and Flood Damage Reduction Project** report created by the U.S. Army Corps of Engineers in 2009 with a 2013 Addendum. The report includes site information, recommended actions, and cost estimates at four Action Areas in the Canteen-Cahokia Creek watershed: Old Cahokia Creek, Judy's Burdick's, Brushy Lake, and Cahokia Mounds.
- **Rainfall to Results** stormwater BMP guide by the Stormwater Institute about urban stormwater BMPs and siting.
- **Southwest Illinois Flood Prevention Project information** in a presentation by the Southwestern Illinois Flood Prevention District Council.
- **Miscellaneous news articles about flooding and stormwater** from local news outlets.

EXHIBIT B.7-G

2017 Cahokia Creek Watershed Plan
Summary Report

Cahokia Creek Watershed Planning 2017 Summary Report

HeartLands Conservancy

406 E. Main Street, Mascoutah, IL 62258

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Cahokia Creek Watershed Planning: 2017 Summary Report

In 2017, steps were taken towards the creation of watershed plans for the Indian Creek-Cahokia Creek watershed and the Canteen Creek-Cahokia Creek watershed. These steps have been checked off from Phase One of the summary of watershed planning steps, below.

A Summary of Watershed Planning Steps

For the Cahokia Creek Watershed Plans

Phase One

- ✓ Determine partners in the plan, Steering Committee, Technical Committee, and Advisory Committees. Identify Plan purpose and create schedule. Identify key stakeholders and determine outreach strategy.
- ✓ Hold Open House events and stakeholder meetings with municipalities, townships, etc.
- ✓ Steering Committee meets/communicates to discuss Phase 1 activities
- ✓ Technical Committee meets to review Phase 1 Plan elements
- ✓ Create preliminary goals and objectives
- ✓ Corps of Engineers delivers draft and final Watershed Resource Inventory (WRI)
- ✓ Stormwater Commission updated on the progress of the Plan
- ✓ Review documents such as stormwater studies related to the watershed
- ✓ Identify issues from stakeholders and WRI
- ✓ Advisory Groups meet: review Phase 1 progress & provide input

Phase Two

- Create the Watershed Plan:
 - ✓ Refine and set final goals and objectives
 - ✓ Identify BMP types which address the issues identified, with their costs and effectiveness
 - ✓ Review documents/policies already in place which address these issues
 - ✓ Use STEPL (or equivalent tool) to estimate pollutant load reductions with BMPs
 - ✓ Set watershed impairments targets (with support from Technical Committee)
 - Design an Information and Education Plan and a Monitoring Plan/monitoring component
 - Use the ACPF to identify BMPs on agricultural land
 - Identify Critical Areas and locations for specific projects
 - Select number and type of BMPs to recommend, and some specific projects
 - Create implementation schedule with milestones and indicators of success
- ✓ Steering Committee and Technical Committee meet to discuss Phase 2 activities and Plan elements
- Stormwater Commission and stakeholders updated on the progress of the Plan
- Draft 1 of Watershed Plan submitted to County
- Advisory Groups meet and reviews Phase 2 Plan progress and Draft 1 of Watershed Plan
- Steering Committee reviews Draft 1 of Watershed Plan & provides comments
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- Stormwater Commission reviews Draft 2
- Provide updates to stakeholders about Draft 2 (e.g., Open House events, email updates)

- Steering Committee determines final changes and makes recommendation to Stormwater Commission
- Final Watershed Plan (incl. Final WRI) and supporting data submitted to County
- Advisory Groups meet to discuss outreach and Plan implementation

Phase Three and future

- Stormwater Commission makes recommendation to County Board to adopt Plan
- County Board passes resolution adopting Plan
- Monitor Plan progress & make adjustments

The following details are provided about the steps completed. Activities from 2017 are in purple.

Determine partners in the plan, Steering Committee, Technical Committee, and Advisory Committees. Identify Plan purpose and create schedule. Identify key stakeholders and determine outreach strategy.

In early 2016, the Steering Committee for the Plan (Madison County, HeartLands Conservancy, and the U.S. Army Corps of Engineers) was determined. Roles and responsibilities for a Technical Committee and two Advisory Groups (one for each watershed) were drawn up, and committee/group members were invited to join the groups. A list of stakeholders not yet engaged in 2015 was drawn up, and contacts were made. An outreach strategy was determined that included further stakeholder meetings, distributing the results of the Flood Survey, and Open House events. **In 2017, more stakeholders were identified through outreach activities such as individual meetings with County Board members and public Open House events.**

Hold Open House events and stakeholder meetings with municipalities, townships, etc.

The planning team engaged more than 500 individuals from more than 30 entities in 2016. Several individuals and groups that were engaged in 2015 were re-engaged in 2016. Small group meetings allowed attendees to provide locations of floods and other issues on large paper maps, and give detailed input on stormwater issues in the watershed. Presentations at regularly scheduled meetings of organizations such as the Edwardsville Rotary and the East-West Gateway Council of Government’s Water Resources Committee allowed the project planning team to reach larger groups efficiently. **Two Open House events were held in early 2017. See the Cahokia Creek Watersheds Stakeholder Engagement: 2017 Summary for more information.**

Steering Committee meets/communicates to discuss Phase 1 activities

Madison County, HeartLands Conservancy, and the U.S. Army Corps of Engineers were in regular contact with one another about the progress of the watershed planning effort, particularly with regard to the Corps’ Watershed Resources Inventory (WRI). **The final maps for the WRI were created with coordination from HeartLands Conservancy and Madison County.**

Technical Committee meets to review Phase 1 Plan elements

The Technical Committee was convened to provide oversight and guidance on the technical aspects of the watershed planning process. Members include Madison County Planning and Development,

HeartLands Conservancy, the U.S. Army Corps of Engineers, the National Great Rivers Research and Education Center (NGRREC), the Madison County Emergency Management Agency, the Madison County Soil and Water Conservation District, and the Madison County Highway Department. The group met twice in 2016. In 2017, the Technical Committee met three times to discuss the issues identified in the planning process so far, the potential specific project locations identified by stakeholders, potential Best Management Practices to address issues in the watersheds, goals and objectives, pollutant load reduction targets, and other items. See the Cahokia Creek Watersheds Stakeholder Engagement: 2017 Summary for more information about the items discussed by the Technical Committee, as well as its future responsibilities.

Create preliminary goals and objectives

Preliminary goals have been created for the watershed plans, based on the goals from the Upper Silver Creek Watershed Plan and the countywide Stormwater Management Plan. These goals were reviewed by the Technical Committee and Advisory Groups to check that they are aligned with the purpose of addressing the issues identified so far. Draft objectives were created that align with the issues identified so far and the pollutant load reduction targets reviewed by the Technical Committee.

Corps of Engineers delivers draft and final Watershed Resource Inventory (WRI)

The Corps delivered an 80% draft of the WRI to the County and HeartLands Conservancy in November 2016. The 80% figure means that the document had approximately 100% of 80% of the document sections completed, OR 80% of all of the sections completed. The 100% final WRI was delivered to Madison County in early 2017.

Stormwater Commission updated on the progress of the Plan

Madison County staff met with the Stormwater Commission in 2016 and 2017 and provided updates on the county's watershed planning efforts, including in the Cahokia Creek watersheds, in relation to the countywide Stormwater Management Plan.

Review documents such as stormwater studies related to the watershed

Several documents were received from stakeholders in 2016 and were reviewed for inclusion in the Watershed Resources Inventory (WRI) or the Watershed Plan. If the information was best suited to the WRI, it was sent to the Corps of Engineers.

Documents reviewed include the following.

For the Watershed Resources Inventory (WRI):

- **American Bottom River Corridor Resource Inventory**, developed by Southwestern Illinois RC&D, Inc., Southwestern Illinois GIS Resource Center, Greenway Network, St. Charles Rivers & Streams Project with funding provided through the IDNR C2000 Ecosystem Partnership Program. Contains information on water quality, wildlife habitat, wildlife numbers, and vegetation in the study area in the American Bottom (including a portion of the Cahokia Creek watersheds, up to the bluff line).
- **Information provided to Madison County about the December 2015-January 2016 extreme flooding event**, including information on home flooding, mobile home flooding, basement flooding, road flooding, road closures, and Sanitary Sewer Overflows.

- **Stormwater complaints received by Madison County Stormwater Coordinator 2012-2015**, an Excel spreadsheet compiled by Madison County Stormwater Coordinator Steve Brendel and delivered to HeartLands Conservancy in November 2015.
- **Dunlap Lake silt/dredging report**, from the Property Owners Association's Silt Committee's work with Horner & Shifrin Engineering to find the best option for dredging and improving the south end silt retention basin to keep the lake from refilling. The report includes a map of the coves in Dunlap Lake with the most significant silt accumulation.
- **Dunlap Lake Dam Emergency Action Plan**, prepared for the City of Edwardsville by Holscher Engineering, P.C., May 2013. The Plan includes breach inundation mapping, a notification flowchart, and an evacuation plan.
- **Dunlap Lake fish testing results**, from testing led by SIUE in 2015. A total of 34 samples were analyzed for chemicals including lead, mercury, and arsenic.
- **Dunlap Lake Teklab water quality testing report**, from testing on 3 samples from Dunlap Lake in August 2015 and August 2017. Parameters measured include fecal coliform, nitrogen, phosphorus, and mercury.
- **Erosion and Sediment Control for the Dunlap Lake Watershed**, a report by the Madison County SWCD, August 1988. The report examines the soil and water conservation options available for alleviating the sediment problem in the lake.
- **Glen Carbon Stormwater Management Preliminary Drainage Analysis**, a report from August 2014 by Gonzalez Companies, LLC. The report provides preliminary investigation and analysis of sites that have experienced stormwater-related issues. The Village solicited information on resident concerns through the use of surveys and a public meeting, and kept lists of complaints from problem areas. The report outlines a prioritized plan for the Village to address these issues.
- **Volunteer Lake Monitoring Program Reports** from IDNR in the 1970's and 1980's. Volunteer monitoring was conducted at Holiday Lake and Tower Lake and information on turbidity and other factors was reported.
- **FEMA Interagency Hazard Mitigation Team (IHMT) Report**, FEMA 1053-DR-IL, covering the counties of Madison and St. Clair, June 16, 1995. The report examines the amount of rainfall received in the region, and identifies hazard mitigation opportunities.
- **Oates Associates report on flooding in Madison County**, which identifies flooding areas in several communities, roadway overtopping, and suggested mitigation projects.

For the Watershed Plans:

- **Flood Plain/Hazard Management Plan Guidelines for the St. Clair County, Illinois portion of the American Bottoms and Hillside Drainage Area**, prepared for St. Clair County, Illinois by the Southwestern Illinois Planning Commission, October, 1995. This report addresses issues and regulations that relate to flood hazards on a watershed level in St. Clair County, Illinois. The document has 16 recommended goals.
- **Temporary Stabilization Specification Improvements**, prepared by 5 individuals from SIUE, including Susan Morgan, Mark Grinter, and William Retzlaff, Illinois Center for Transportation, September 2014. The study looked at the performance of promising seed varieties for temporary vegetative cover in construction activities in Illinois.
- **Performance and Cost Data on Post-Construction BMPs**, Interim Report: Synthesis of BMP Performance and Cost Data, ICT Project 27-147, Effective Post-Construction Best Management Practices (BMPs) to Infiltrate and Retain Stormwater Run-off, by several authors including Mark

- Grinter at SIUE. This study collects information on BMP types, selection criteria, intended application, limitation, performance, maintenance, cost, size, and volume reduction capabilities.
- **Cropping Decisions Survey**, a survey by the Howard G. Buffett Foundation and Conservation Technology Information Center, September 2010. Of all the states surveyed, the heaviest concentration of responses came from Illinois (111 responses). Most respondents in Illinois have never used cover crops. The survey describes the top three trusted sources of information that would make participants willing to try cover crops: successful farmer using cover crops, cooperative extension service/university, and agribusiness.
 - **Bunker Hill City Code – Subdivision Code 34-5-60** – Division XIV – Stormwater Drainage and Detention. The code requires a Drainage Plan to be submitted for all new development and re-development, and sets out design requirements.
 - **Glen Carbon Village Code – TITLE 11** – Chapter 1 – General Subdivision Provisions. The subdivision provisions are adopted for purposes including protecting public health, safety, and welfare; securing safety from fire and flood; protecting environmentally sensitive areas; assuring the adequacy of drainage facilities; preventing the pollution of streams and ponds; providing for open spaces; and preserving the natural beauty and topography of the village.
 - **Glen Carbon – TITLE 12** – Chapter 1 – FLOOD CONTROL REGULATIONS. Gonzalez Companies recommended several changes to the Village’s Flood Control Regulations, including adding or revising definitions; notifying IDNR/OWR and neighboring communities prior to alteration of a watercourse; and not issuing permits until all other permits have been obtained.
 - **Miscellaneous news articles about flooding and stormwater** from local news outlets.
 - **Cahokia Creek/Holiday Shores Total Maximum Daily Load (TMDL) report approved by IEPA in 2009.**
 - **East St Louis & Vicinity Ecosystem Restoration and Flood Damage Reduction Project report** created by the U.S. Army Corps of Engineers in 2009 with a 2013 Addendum. The report includes site information, recommended actions, and cost estimates at four Action Areas in the Canteen-Cahokia Creek watershed: Old Cahokia Creek, Judy’s Burdick’s, Brushy Lake, and Cahokia Mounds.
 - **Rainfall to Results stormwater BMP guide** by the Stormwater Institute about urban stormwater BMPs and siting.
 - **Southwest Illinois Flood Prevention Project information** in a presentation by the Southwestern Illinois Flood Prevention District Council.

Identify issues from stakeholders and WRI

A list of issues identified by stakeholders was compiled for each watershed, and supplemented with issues identified in the WRI. The lists include details about the person/entity that provided the information about the issue, and the type and extent of the issue. The lists were presented to the Technical Committee and the Advisory Groups for review in 2016 and in 2017. Both groups clarified and added to the list.

Advisory Groups meet: review Phase 1 progress & provide input

The two Advisory Groups met for the first time in 2016. The role of the Advisory Groups is to provide advice and support to the watershed planning team on stormwater, flooding, water quality, and other environmental issues. The Groups are made up of individuals with different backgrounds representing the interests of stakeholders in the watersheds, including municipalities, townships, environmental organizations, and educational institutions. The Advisory Groups met again in 2017. The groups discussed the critical areas and specific project locations identified so far, provided further background

information on these locations, and suggested additional problem areas. See the Cahokia Creek Watersheds Stakeholder Engagement: 2017 Summary for more information about the items discussed by the Advisory Groups.

EXHIBIT D.2

2018 Sediment and Erosion Control Seminar

Erosion, Sediment and Storm Water Control Seminar

3 PDUs or PDHs

•
BREAKFAST
INCLUDED



Field Day sponsored by Jersey, Madison, Monroe, and St. Clair County Soil and Water Conservation Districts

March 9, 2018
Southern Illinois
University Edwardsville,
Morris University Center

Agenda

- 8:00 – 8:30: Registration/Visit our Vendors
- 8:30 – 8:40: Introduction
- 8:40 – 9:25: Janet Buchanan, Heartlands Conservancy
 - *Watershed Planning*
- 9:25 – 10:10: Mike Hartoin, Mary Weatherford, SCI Engineering
 - *Stone Toe Protection*
- 10:10 – 10:30: Break – Visit our Vendors
- 10:30 – 11:15: Dan Salsinger
 - *Dewatering and Buffering Techniques*
- 11:15 – 12:00: J. Asher Leff, U.S. Army Corps of Engineers
 - *Big River Watershed Sediment Reduction*

Register online:

<https://goo.gl/mGkz5K>

Parking is FREE in Lot B

SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE



EXHIBIT D.6/E.5-B

2017 Cover Crop Field Day



MADISON COUNTY SWCD

COVER CROP

FIELD DAY

DEC. 7, 2017 FROM 9A – 12P

Cover Crops Boost Soil Health - Better Yields, Cleaner Water!

The first of a Two-Part Series of Cover Crop Events. Local experts discuss tried, true, and brand-new methods of cover crop management, use of soil conditioners, and erosion control structures to boost soil health and productivity.



Join Us at the
Hunsche Farm
 12610 Niggli Rd.
 Highland, IL 62249

Featured Topics:

Sodium Damaged Soil

Bryan Fitch, NRCS

Cover Crops & Soil Health

Dr. Karl Williard, SIU

NRCS Conservation

Programs, Brendaly

Rodriguez-Munos, NRCS

Gypsum Basics

Nancy Pals, Gypsyn

Highland Silver Lake

Water Quality Initiative

Lisa Peck, City of Highland

Register @ 8:30a

Lunch Provided!

**FOR MORE
 INFORMATION:**

Contact

Madison County SWCD

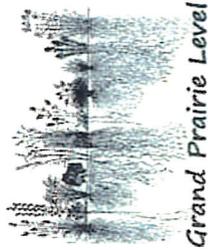
(618) 656-7300 ext 3

Or visit our Facebook page





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Grand Prairie Level



Footprint Power



Big Bluestem Level



MONSANTO



Milkweed Level



Little Bluestem Level



Cover Crop Field Day



at the Hamel Community Center

and the Hunsche Farm

Thursday, March 22nd 2018



Brent Hunsche and Ted Krauskopf help Cliff Schuette fill a seeder with cover crop seeds for the field demo.

AGENDA

- 8:30 am** Registration
- 9:00 am** Welcome - Introduction
- 9:10 am** Timing Practices for Best Results with Cover Crops
 - *Randy McElroy, Monsanto*
 - Load Busses, Drive to Hunsche Farm ---
- 10:00 am** Cover Crop Root System Demonstration
 - *Jerry Berning, Berning Soil Evaluations*
- 11:00 am** Rainfall Simulator
 - *John Pike*
- 11:30 am** --- Load Busses, Drive to Hamel Community Center ---
- 12:00 pm** --- Lunch ---

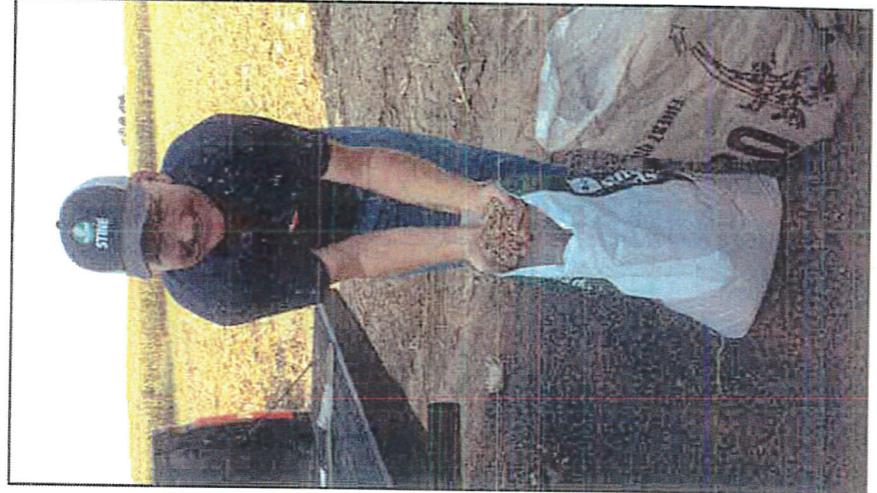
Information about Today's Presentations

Randy McElroy works as a Technology Development Rep with Monsanto, based in Southern Illinois. His passion for row crops includes: new germplasm testing, screening and characterization in corn and soybean, corn plant population and row spacing dynamics, soybean plant population and row spacing interactions, light effects on corn and soybean yield, long term tillage systems in corn and soybeans, along with cover crop adaptation to row crops.

John Pike has worked in agribusness since graduating with his Master of Science from Southern Illinois University in 1994. He has served in various Agronomic Specialist and Research positions at SIU and University of Illinois, and educator at University of Illinois Extension. With the closing of the Dixon Springs Research Farm in 2016, John now works as a private consultant and contract plot researcher at his buisness, Pike Ag, LLC. John is also a cover crop specialist with the Zea Maize Foundation and Illinois Corn Growers Association.

Jerry Berning is a Certified Soil Classifier, living in Godfrey. He worked for NRCS for 35 years as a Soil Scientist, a District Conservationist, and Area Conservationist. He also worked for 7 years at U.S. Army Corps of Engineers as a geologist and in the regulatory branch. Today, Jerry is a private consultant and soils geologist at Berning Soil Evaluations.

Cliff Schuette is the owner of Schuette Seeds in St. Rose, and a storehouse of knowledge when it comes to cover crops. He is the Treasurer of Clinton County SWCD, Past President of the Illinois Beef Association, Chairman of Illinois Grasslands Conservation Initiative Association, and Past Vice President of the Clinton County Farm Bureau.



Cliff Schuette of Schuette Seeds scoops a handful of cover crops in this 12-way seed mix, planted in the demo plots at Ron Hunsche's Farm in Highland.



HEARTLANDS

C O N S E R V A N C Y
Investing In The Nature Of Southwestern Illinois

Madison County Planning and Development and HeartLands Conservancy created the "Landowner/Farmer Survey" to inform county residents about agricultural funding programs that support land management, gather information about erosion and other issues, and identify projects landowners may undertake on their land.

The survey is available online at <https://www.surveymonkey.com/r/LandownerSurveyCahokiaCrk>. It will also be mailed to approximately 660 addresses associated with rural parcels in the watersheds over 5 acres in size.

The survey was created as part of the watershed planning process for the two Cahokia Creek watersheds, which is being undertaken by Madison County, HeartLands Conservancy, and the U.S. Army Corps of Engineers. Watershed planning is a way to strategically address water quality, flooding, and stormwater issues looking at landscape-scale interactions. Survey responses regarding issues on the land and in streams will also be used in the Cahokia Creek watershed planning process.

Madison County Stormwater Coordinator Steve Brendel notes that this survey will be useful for supporting the recommendations in the watershed plan, and beyond. "Watershed plans can be used to leverage funding for many different types of projects," Brendel said. "When we have input from county landowners, we can identify where the issues are upstream that affect areas downstream, and marshal support to fix them."

More information about the Landowner/Farmer Survey or Cahokia Creek Watershed Plans: contact Janet Buchanan, HeartLands Conservancy: 618-566-4451 x 25 or janet.buchanan@heartlandsconservancy.org.

Pollinators in Agroecology Field Day



FREE Local Honey Tasting & Native Pollinator Seed

Coming in June, 2018!

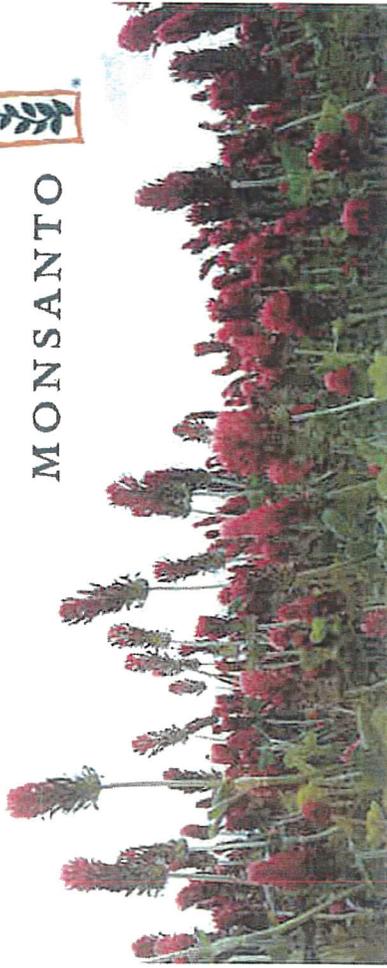
Discussion Topics:

- Importance of Pollinators
- Pollinator Health In the US
- Pollinator Survey and ID
- Providing Pollinator Habitat

Henry White Research Farm
4747 Centreville Rd.
Millstadt, IL 62260



MONSANTO



SIU
CARBONDALE

Footprint Power®

1140 Route 22 East, Suite 303, Bridgewater, NJ 08807



Footprint Power LLC is a power plant developer, based in New Jersey and founded on the notion that power plants are community resources that must serve their neighbors with not just the electric power they produce but also in their alignment with the issues that matter to local stakeholders. Our first project in Salem, Massachusetts involved the temporary operation of a coal facility, the shutdown of that facility and its replacement with a new gas-fired plant. The project involved not just the transition in the physical plant and stewardship of the land on which it is located, but also addressing the needs of our staff as they moved on to new jobs (either at the new plant or in new settings) and the needs of our neighbors as we worked to maintain the tax base, to improve local property values and to provide new opportunities for waterfront access. For us, the commercial opportunity flows from the thoroughly old fashioned notion that good service will yield good financial results - and, thus far, we have not been disappointed in this belief.



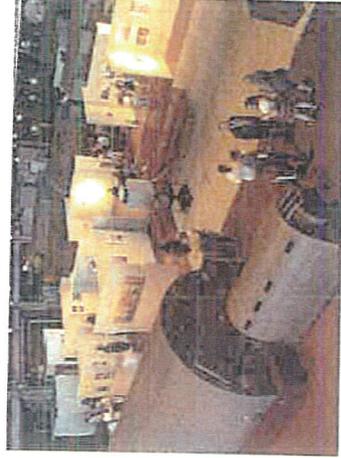
Old Salem Harbor Station (2014)



New Salem Harbor Station (2017)

With the new Salem Harbor Station nearly complete, Footprint Power is looking for new opportunities to be of service to local communities. With lessons learned from Salem and with new technological advances, we intend to pursue projects that are smaller and more responsive to local needs - while maintaining maximal efficiency and flexibility and minimal emissions. We are also turning our attention to areas, particularly in the Midwest, where coal plants and the communities that host them are struggling and little has been done to introduce new facilities and new technologies that can strengthen transmission grids and serve local needs.

By expanding our geographical reach to the Midwest, we also are presented with an opportunity to double down on our environmental benefits. In addition to reducing hazardous emissions such as NOx, SO2, and Mercury to minimal levels, our units also emit 60% less CO2 than most coal facilities. With advances in our understanding of the ability of soils to hold carbon sequestered by plants via photosynthesis, Footprint Power seeks to reduce our environmental impact even further by partnering with local farmers to incentivize and support sustainable soil management practices, such as low/no-till and cover cropping, which maximize these natural processes. In addition to offsetting carbon produced, such practices have the potential to provide the co-benefits of better soil health, increased crop yields, reduced fertilizer inputs and improved water quality. Understanding that these practices come with costs and challenges, Footprint Power wants to work with local farmers and their established support systems to find ways to incentivize and foster adoption of these practices. Our hope is that these practices will be rewarding both for our farming neighbors and their customers, and for our environment.



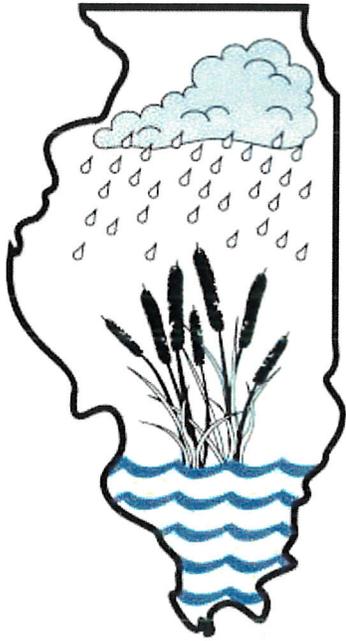
Turbine Deck Art Show (2014)

Reducing Carbon Emissions One Step at a Time™

Reducing Carbon Emissions One Step at a Time™

EXHIBIT F.1

IAFSM 2018 Annual Conference



IAFSM

*Illinois Association for
Floodplain and Stormwater Management*

2018 Annual Conference

**Wednesday & Thursday
March 14 & 15, 2018**

Tinley Park Convention Center-
Holiday Inn Tinley Park
Tinley Park, Illinois

Questions: Sarah Harbaugh
IAFSM Executive Secretary
<mailto:iafsm@illinoisfloods.org>

or 630/443-8145
www.IllinoisFloods.org

LOCATION AND LODGING

Location: The conference is at the Tinley Park Convention Center - Holiday Inn Tinley Park, 18451 Convention Center Drive, Tinley Park, IL 60477, www.holidayinn.com.

Lodging: A special conference rate of \$129 plus tax, single or double, per night, has been established at the Holiday Inn. A **limited** number of rooms are available at the prevailing state government rate with proper government identification. Please call the Holiday Inn directly to reserve the state government rate. Reserve your room by calling the Holiday Inn front desk at (708) 444-1100 and tell them you are with the Illinois Association for Floodplain and Stormwater Management conference or follow this link:

<https://www.holidayinn.com/redirect?path=hd&brandCode=HI&localeCode=en%2C%AEionCode=1&hotelCode=CHITN&PMID=99801505&GPC=ISF&viewfullsite=true>.

The hotel's reservation deadline for this rate is February 20th.

REGISTRATION

Registration: Registration covers lunches, breaks, materials and your 2017-2018 IAFSM membership.

Discount on or before February 11, 2018 (\$420). If you register after February 11th the cost for the conference is \$480. The deadline for registrations and cancellations is February 25, 2018. No refunds after February 25, 2018. *In past years we had to turn away late registrants. Register early to make sure you don't miss out.*

Please follow the link below to register on-line.

<https://www.123signup.com/event?id=hjhxc>

EXHIBITORS & SPONSORS

Exhibitors: Companies and organizations will exhibit their products, services, and activities all day Wednesday and through the Wednesday evening social hour. Exhibitor cards can be completed by participants. Thursday during lunch there will be a drawing of returned completed cards to select door prize winners.

Sponsors: We invite you to be a sponsor for the annual conference or donate a door prize. All sponsors will be identified in the conference program, at plenary sessions and during the awards luncheon along with newsletter advertising benefits. For a complete listing of Sponsor benefits please contact Sarah at IAFSM@illinoisfloods.org.

	On or before Feb 11	After Feb 11, before Feb 25
Exhibitor Fee	\$800	\$900
Registration Fee	\$420	\$480
Full Time Student Registration Fee (2 day conference) Please contact Sarah Harbaugh at iafsm@illinoisfloods.org to arrange for this special rate)	\$165	\$165
Full Time Student Registration Fee (half day sessions - no meals) Please contact Sarah Harbaugh at iafsm@illinoisfloods.org to arrange for this special rate)	Free	Free

CFM EXAMINATION

The Certified Floodplain Manager exam will be conducted at the Tinley Park Convention Center on Tuesday, March 13, 2018 from 5:00 – 8:00 PM. If you want to take the Floodplain Manager Certification Exam on March 13, 2018 the **ASFPM** must receive the CFM application packet and fee by February 27th. The application packet is available on our website, www.IllinoisFloods.org.

COMMUNITY RATING SYSTEM (CRS)

CRS: Lou Ann Patellaro, ISO will be exhibiting this year. If you are interested in the CRS or have questions please visit her at her booth in the exhibitor hall.

CEC's & PDH's

Certified Floodplain Managers – CECs:

10 Continuing Education Credits are provided toward the requirements for Certified Floodplain Managers for attending both days of the conference. Attendance is reported directly to the CFM Database.

Professional Engineering - PDHs: Full conference attendance provides 12 Professional Development Hours. Certificates can be picked up at the end of the conference.

Credit hours are subject to final program adjustment.

IAFSM Conference Scholarships

We are once again offering scholarships for the IAFSM Annual Conference. Please review the notice at the end of this flyer for more information. Request deadline is February 11, 2018

MOBILE APP

The CrowdCompass mobile app will be used again this year, providing smart content and increased engagement opportunities to enhance your conference experience.

Event URL: <https://crowd.cc/iafsm-2018> **App Download URL:** <https://crowd.cc/s/1jYqU>



A special thanks to our sponsors to date:

Gold



Silver



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**JAMES J. BENES
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We look forward to viewing these
early bird exhibitors



Hey and Associates, Inc.



Innovyze[®]



Tuesday, March 13, 2018 (PRE CONFERENCE)

9:00 am - 3:00 pm [NFIP 101 Workshop](#)

5:00 pm - 8:00 pm CFM Exam – The Certified Floodplain Manager exam will be conducted in the Samuel Tinley Room at Tinley Park Convention Center. See IAFSM's website for the application for the CFM exam, www.IllinoisFloods.org. Applications must be received by ASFPM by February 27, 2018.

Wednesday, March 14, 2018

- 8:00 am Registration
Exhibits and continental breakfast - Exhibitor hall
- 9:00 am **Plenary Session**
- Welcome
 - Keynote Speaker - Dr. General Gerry Galloway
- 10:10 am Break - Exhibitor Hall
- 10:30 am **Concurrent Session 1**
- 1A Urban Flooding**
- ❖ Administrating Local Flooding Areas
 - ❖ Topographic Wetness Index: A GIS approach to identifying areas at risk of urban flooding
 - ❖ Calumet Stormwater Collaborative: Cross-Agency Collaboration Case Studies
- 1B NPDES/MS4 Permitting**
- ❖ NPDES
 - ❖ When It's Not Raining – Prioritizing Stormwater Outfall Screening During Dry Weather
 - ❖ DuPage County's Regional NPDES Permit
- 1C CRS**
- ❖ 2017 CRS Coordinators Manual Update
 - ❖ CRS Watershed Master Plan: The Quest for Level 4
 - ❖ This is not your Father's NFIP! Community Outreach
- 1D Floodplain Management/Studies**
- ❖ Oak Grove Road over Unnamed Tributary to Lawrence Creek: Confluences, Urbanization, and Permitting
 - ❖ Kinnickinnic Watershed: Updating a Watershed Plan to Address Increasing Flood Risk
 - ❖ 7th Avenue Creek Flood Mitigation and Flood Reduction Master Plan: Developing a Plan to Meet Multiple Objectives and Funding Opportunities
- 12:00 pm Lunch
- TBD
- 1:30 pm **Concurrent Session 2**
- 2A Stormwater Master Planning**
- ❖ Urban Flooding: How Can Planners Help?
 - ❖ Keys to a Successful Stormwater Project in a Fully Developed Residential Area
 - ❖ Improving an Urban Watershed – The Past, Present and Future of Addison Creek

- 2B **Regulatory**
 - ❖ Regulate, Litigate or Capitulate
 - ❖ Public Partnerships, Permits, and a Parking Lot – Underground Detention in Glenview
 - ❖ Resolving CAVs
- 2C **Partnering/Flood Insurance**
 - ❖ How to partner with the Corps: An overview of USACE Programs & Authorities
 - ❖ 2017 Flood Insurance Advocate Annual Report Findings
 - ❖ Silver Jackets
- 2D **IDNR-OWR Regulatory Updates **Due to high demand this presentation will be given twice (2D & 4B)****
 - ❖ Occupation of Public Waters
 - ❖ Say Goodbye to Statewide Permits in Illinois
 - ❖ IDNR/OWR 3700 Rules Revision Update

3:00 pm Break - Exhibitor Hall

3:20 pm **Concurrent Session 3**

- 3A **Stormwater Project Management**
 - ❖ Robbins Reimagining Stormwater Investment
 - ❖ Bridging the Communication Gap Between Structural and Hydraulic Engineers
 - ❖ Assessing Potential Opportunity Areas for Developing Stormwater Management Facilities in suburban Cook County: Nothing fancy, just meat-and-potatoes GIS
- 3B **Local Officials Tools**
 - ❖ HEC Modeling for Non-Engineers
 - ❖ Filtration Fundamentals: A back to basics look at filtration and why it matters today
 - ❖ No BFE, No Hope? How to deal with Approximate A Zones
- 3C **Green Infrastructure**
 - ❖ City of Northlake Addison Creek Restoration
 - ❖ The Stormwater Benefits of High-Performance Urban Trees
 - ❖ Developing a Green Infrastructure Plan for the Western Richton Park Development Corridor
- 3D **State/County Projects**
 - ❖ Illinois State Water Survey Project Updates
 - ❖ Flood Inundation Mapping at DuPage County
 - ❖ Lake County's Flood Response Operations during the July 2017 Record Flood Event

4:50 -6:30 pm Social Hour - Exhibitor Hall

Thursday, March 15, 2018

7:30 am IAFSM Board Meeting
Registration & Continental Breakfast

9:00 am **Plenary Session**

- TBD

10:10 am Break

10:30 am

Concurrent Session 4

4A Modeling

- ❖ HEC-RAS 2d Modeling of US 20 Bridge
- ❖ MATS-TC: Automating Time of Concentration Through Multidisciplinary Collaboration
- ❖ The Albany Park Stormwater Diversion Tunnel – Chicago’s New Flood Mitigation Asset

4B IDNR-OWR Regulatory Updates **Due to high demand this presentation will be given twice (2D & 4B)**

- ❖ Occupation of Public Works
- ❖ Say Goodbye to Statewide Permits in Illinois
- ❖ IDNR/OWR 3700 Rules Revision Update

4C Estimating Tools

- ❖ FEMA SDE 3.0 – 2017 Updates
- ❖ Estimating the Economic Impact of Buyouts: Loss Avoidance Study for the City of Ottawa, Illinois
- ❖ RAFT

4D Climate Change

- ❖ Usability of climate model outputs in determining future rainfall frequency
- ❖ Incorporating Precipitation Trends into Flood Risk Management Studies
- ❖ Off with the Rule of Thumbs: Rethinking Hydrologic Impacts

12:00 pm

Lunch

- Awards Luncheon
- Vendor Door Prizes

1:30 pm

Concurrent Session 5

5A Local Officials Roundtable

- ❖ Local Official Roundtable

5B Wetlands and Water Quality

- ❖ The DuPage County MEGA Project: The Restoration of One Mile of the West Branch DuPage River and 350 Acres of the West Branch Forest Preserve
- ❖ The Lake County Wetland Restoration & Preservation Plan (WRAPP)
- ❖ Evaluation of fish community response to dam removal and fish passage projects in Northeastern Illinois

5C Modeling Tools

- ❖ Understanding Risk: Comprehensive System Modeling with Innovyze software
- ❖ Tools for flood risk management and increased resiliency through intelligent infrastructure control
- ❖ Envision 3.0: Driving Success for Sustainable Infrastructure Projects

5D Special Topics – Critical Path

- ❖ Determining the Critical Path of a Hydrologic and Hydraulic (H&H) Modeling Project

3:00 pm

Adjourn

State and Local Official Scholarships to attend the IAFSM conference



Come see what the IAFSM annual conference is about!

March 14 and 15, 2018 in Tinley Park, Illinois

Stretch your training and travel funds by taking advantage of the Illinois Association's State and Local Officials Scholarship to attend the Illinois Association for Floodplain and Stormwater Management annual conference. The conference is a wonderful way to share experiences and ideas with other floodplain management professionals and also allows CFMs to get CEC credits. The scholarship includes registration fees. IAFSM does not cover transportation, per diem or lodging. This year the conference will be held at the Tinley Park Convention Center – Holiday Inn, Tinley Park, Illinois. IAFSM has a block of rooms available at a special rate of \$129 plus tax. Please look at page 2 of this flyer for more information.

Requirements-

1. Priority given to first time conference attendees.
2. IAFSM members only. (You must register as a member before you are considered eligible for the scholarship. Annual Membership Fee is \$25.00)
3. You must be a state, county, or local government official.

Details-

- IAFSM will pay registration fees.
- Transportation, hotels, and per diem must be paid by the scholarship recipient.
- Scholarship recipients are expected to attend conference sessions.
- Scholarship recipients must be willing to volunteer if requested.
- Requests should be on official state, county, or city letterhead.
- Request deadline is February 11, 2018.

There are a limited number of scholarships available. Please send a letter detailing your interest in receiving this scholarship, your official position, along with any applicable information that you feel might provide you with priority consideration to

Diane Bouckaert, Education Chair;
Manhard Consulting
700 Springer Drive, Lombard, Illinois 60148.
dbouckaert@manhard.com
(630)925-1055

**I will contact you with confirmation of receipt.

Full details on the IAFSM 2018 Conference are located at www.illinoisfloods.org