

**MINUTES OF THE STORMWATER MANAGEMENT COMMITTEE MEETING
WEDNESDAY, JANUARY 27, 2010**

The Stormwater Management Committee met on Wednesday, January 27, 2010.

The meeting was held in the Main Conference Room at Leawood City Hall.

Councilmember Jim Rawlings, Chair of the Committee called the meeting to order at 7:33AM.

Committee members in attendance:

James Azeltine, Councilmember-Ward 4

Gary Bussing, Councilmember-Ward 3

Bill Chiles

Pat Dunn

Debra Filla, Councilmember-Ward 1

John Kahl

Jim Rawlings, Councilmember-Ward 2

Committee members absent:

Carole Lechevin

Alec Weinberg

Staff in attendance:

Brian Anderson, Parks Superintendent

Joe Johnson, Director of Public Works

David Ley, City Engineer

Julie Stasi, Adm. Services Manager-Public Works

Guests: Dr. John T. Kevern, University of Missouri, Kansas City

Mayor Peggy J. Dunn

Adam Abrams, Public Works Committee Member

Julie Cain, Councilmember-Ward 4

Jennifer Hassler, Green Initiative Committee Member and Stream Teams Work Group

Marsha Monica, Public Works Committee Member

Louis Rasmussen, Councilmember- Ward 2

- **Chair Jim Rawlings greeted and welcomed everyone to the first Stormwater meeting of 2010.** Chair Rawlings said that for the program today we invited two other committees to join the group and listen in for an educational value; the Public Works Committee and the Green Initiative Task Force Members have been invited.
- **The first item of business was to approve the minutes from the last committee meeting.** Debra Filla made a motion to approve the minutes of October 28, 2009. Bill Chiles made a second to the motion. All members were in favor of the motion. Motion passed unanimously.
- **The next item on the agenda was a presentation on Permeable Pavements.**
Guest Speaker: John T. Kevern, Ph. D., LEED AP
Assistant Professor
Civil Mechanical Engineering Department
University of Missouri-Kansas City

Prior to his presentation, Debra Filla mentioned that she had the pleasure to see Dr. Kevern present this at the MARC offices and could not believe that we had this kind of expertise here in river city. And also for those that were unaware, the City has used Pervious Pavement at our I-Lan Park located at 127th & Nall Avenue; installing seventeen (17) parking stalls.

Dr. Kevern gave his presentation on pervious concrete-permeable pavements and their uses and installation, maintenance and operation concerns.

Dr. Kevern advised he does not do promotions as there are industry funded groups that do that. Dr. Kevern provides his information for education.

A little history of how it happened: Stormwater and sanitary sewers have driven this application. In the beginning, the breakthrough was to dig a ditch, water would hit the ditch and it would run out of the town. For a long time, we dug ditches. Then as we built more, we had more ditches and more water runoff. Then we created concrete and all the channels and ditches were lined with concrete. Concrete prevented erosion. Somewhere around the 1920s we figured out that with the stormwater and the sanitary sewers; one is dirtier than the other so we split those apart and treated the sanitary and ran the stormwater off. Then we figured out concrete pipe, so we started putting in brick lined channels and concrete lined pipes and put it all under-ground but as we move out, we were armoring all these false streams and rivers because we ended up with too much stormwater.

After we pulled out industrial sources, the Environmental Protection Agency [EPA] (around the middle of the 1980s) showed in their studies, that stormwater was the single biggest contributor of pollutants through our streams and rivers.

The goal is now to get the water into the ground and provide some treatment of this extra stormwater in the ground. Now we have EPA requirements and we are all looking for techniques other than just digging a hole in the ground to treat and run this water off. Pervious concrete or permeable pavements in general are a pavement surface that is a load carrying surface that has a high permeability.

Dr. Kevern gave example locations of where permeable pavements have been used in his work:

- Maple Grove Minnesota
- Ames, Iowa
- Oregon Trail Park, Olathe, Kansas
- State of Ohio
- Lake Tahoe
- State of Iowa
- Northern Minnesota
- State of Indiana, various locations
- City of Portland, Oregon
- Olympia, Washington

Committee members were able to ask questions throughout the presentation. Question regarding how it holds up to winter season. The pavement is not slick in the rain and snow; which makes one think it would be great in the winter and save on salt/sand applications.

However plowing maintenance is a culprit and can damage the pavement. Joe Johnson said that we have to be careful with what we have here not to chunk up our application with our plow. We would not want to put sand on it. Maintenance applications are power washing, vacuuming and street sweeping.

Other questions concerning costs for permeable pavement VS standard pavement applications and how the pavement would be installed on a surface that is not flat but rather a hill, such as 123rd and Mission Road area.

Dr. Kevern advised that the application can be much less expensive as there are not piping manholes and detention areas like in other applications. On the hills, French Drains and terrace- base installations would have to be done.

Water quality testing was also a question although a good outcome so far with many of the applications is that the water has gone into the ground so there was not much runoff water to test.

John T. Kevern, Ph. D., LEED AP can be reached at:

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- **The next item on the agenda was OLD BUSINESS regarding an update of the Public Works web page design for stormwater information.**

Joe Johnson advised that Scott Smith of our Information Services Department had been working with staff on our web page (off line) and we have been reviewing our information and links on our stormwater pages. Staff will be meeting this week to continue working on it. We have 6 or 7 pages yet to review with pictures to place with captions and hope to have it up running in the next couple of weeks and be done with it to place on the City's web site for access.

Chair Rawlings asked to have this as a topic for our next meeting of the Stormwater Committee in February. We would like to have the Stormwater Committee Members get to take a peek at it and maybe critique it.

- **Deb Filla asked Jennifer Hassler to talk to the Committee about her work on the Stream Teams. Jennifer Hassler advised that the Stream Teams Work Group is working on a letter to send out to property owners that are by bodies of water and are talking about setting up a program where we start monitoring the water quality; physical and microbiological characteristics of the water. Reviewing that data and also doing physical litter clean-up. We will be looking first at gauging the interest of the people and forming the Stream Teams and then setting up the training with test kits.**

Debra Filla said the City had received incredible support from the Missouri Stream Team program that has been around for 20 years. Missouri said they would help us with education. We have received a grant from a Johnson County Stormwater Management for a class that we can do for adults on a Saturday here. We have huge amounts of response.

The Johnson County Stormwater Management Program is very excited about the Leawood Stream Team Program as well. We do not have a stream team program like Missouri does or anything like this in Kansas. The Missouri Program has been going on for 20 years. We will be piloting it.

- **Chair Rawlings advised the next meeting is planned to be in February with the topic of the City's Web page.**
- **Chair Rawlings adjourned the meeting at 8:49 AM.**

Minutes submitted by Julie Stasi
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