



**East Dakota Water Development District**  
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**MINUTES**  
**November 16, 2018**

The Board of Directors of the East Dakota Water Development District (EDWDD) held a regular meeting on November 16, 2018, at the Water Purification Plant, 2100 North Minnesota Avenue, Sioux Falls. Chairman Jarrett called the meeting to order at 9:35 a.m. The following persons attended:

**Directors Present**

Mark Anderson  
Mary Ellen Connelly  
Gary Duffy  
Martin Jarrett  
Dana Loseke  
John Moes  
Janelle Weatherly

**Directors Absent**

Kay Kassube

**Others Present**

Jeff Barth, Minnehaha County Commission  
Guanghai Hua, South Dakota State University  
John McMaine, South Dakota State University  
Jesse Neyens, City of Sioux Falls Public Works  
John Parker, Minnehaha Conservation District  
Tim Stefanich, City of Sioux Falls Public Works

**Staff Present**

Barry Berg  
Tanner Clausen  
Jay Gilbertson

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**Administrative Items**

Approval of Agenda - The Manager requested addition of a Project Assistance Request from Dr. Guanghai Hua, South Dakota State University (SDSU).

**Motion** by Loseke, seconded by Moes to approve the agenda as amended. Motion carried unanimously.

Minutes - The Board reviewed the Minutes of the October 18<sup>th</sup>, 2018, meeting.

**Motion** by Anderson, seconded by Weatherly to approve the Minutes of the October 18<sup>th</sup>, 2018, meeting of the East Dakota Water Development District Board of Directors as presented. Motion carried unanimously.

Financial Reports - The Board reviewed the October 2018 Financial Reports.

**Motion** by Loseke, seconded by Connelly to accept the October 2018 Financial Reports. Motion carried unanimously. Chairman Jarrett then asked that the report be placed in the District files.

Report of Meetings and Conferences - Directors Anderson, Connelly and Loseke attended the October 18<sup>th</sup> tour of the Sioux Falls waste water treatment facility hosted by the Friends of the Big Sioux River in Sioux Falls.

Director Anderson attended a public informational meeting on the Big Sioux River flood prediction model on October 23<sup>rd</sup> in Sioux Falls.

Chairman Jarrett reported on the October 25<sup>th</sup> meeting of the Lake Madison Development Association.

Director Loseke attended the Iowa/Minnesota Drainage Research Forum held in Owatonna, MN, on November 13<sup>th</sup>.

Directors Loseke and Moes attended the Livestock Development Forum held in Brookings on November 15<sup>th</sup>.

The Manager briefly commented on the following meetings he attended:

1. **October 22<sup>nd</sup>** - Madison, MN. Lac qui Parle/Yellow Bank Watershed Restoration and Protection Strategy (WRAPS) meeting.
2. **October 24<sup>th</sup> & 25<sup>th</sup>** - Deadwood. South Dakota Association of Rural Water Systems (SDARWS) Managers Group Meeting.
3. **October 25<sup>th</sup>** - Rapid City. West Dakota Water Development District Executive Committee.
4. **October 26<sup>th</sup>** - Salem. Vermillion Basin Water Development District expansion discussion.
5. **November 1** - Redwood Falls, MN. Minnesota River Basins AREA II/Redwood-Cottonwood Rivers Control Area Legislative Gathering.
6. **November 5<sup>th</sup> - 8<sup>th</sup>** - Colorado Springs, CO. US Environmental Protection Agency National Non-Point Source Pollution Workshop.
7. **November 13<sup>th</sup>** - Owatonna, MN. Iowa/Minnesota Drainage Research Forum.
8. **November 15<sup>th</sup>** - Brookings. East River Electric Livestock Development Forum.
9. **November 15<sup>th</sup>** - Milbank. Lake Region County Commissioners meeting.

Upcoming Meetings -

1. **November 17<sup>th</sup> - 10:00 a.m.** - Bramble Park Zoo, Watertown. 'Healing the Earth Water Seminar .'
2. **November 26<sup>th</sup> - 5:30 p.m.** - City Environmental Office, 1017 E. Chambers St., Sioux Falls. Sioux Falls TMDL Update Public Meeting.
3. **November 30<sup>th</sup> - 9:30 a.m.** - Central Electric Cooperative, 25487 403<sup>rd</sup> Avenue, Mitchell. Dakota Rural Action CAFO Information Forum.
4. **December 5<sup>th</sup> - 1:00 p.m.** - Brookings. Brookings County Conservation District Board of Supervisors.
5. **December 5<sup>th</sup> & 6<sup>th</sup>** - Matthews Training Center, Pierre. SD Water Management Board.

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6. **December 6<sup>th</sup> - 10:00 a.m.** - Downtown Hilton Holiday Inn, Sioux Falls. Big Sioux River Watershed project Steering Committee.
  7. **December 6<sup>th</sup> - 1:00 p.m.** - Downtown Hilton Holiday Inn, Sioux Falls. Big Sioux River Water Summit.
  8. **December 10<sup>th</sup> - 10:00 a.m.** - Matthews Training Center, Pierre. SD Nonpoint Source Task Force.
  9. **December 11<sup>th</sup> - 11:45 a.m.** - Convention Center, Sioux Falls. Ag United Annual Luncheon.
  10. **December 11<sup>th</sup> - 4:00 p.m.** - Lake Area Technical Institute, Watertown. Lake Kampeska Masters Plan Open House.
  11. **December 13<sup>th</sup> - 9:00 a.m.** - Kelly Inn, Yankton. South Dakota Invasive Mussel Summit.
  12. **December 20<sup>th</sup> - 1:00 p.m.** - EDWDD Office, Brookings. December EDWDD Board of Directors meeting.

Payment Requests - The Manager presented several payment requests from District-sponsored activities. He noted that the requests were in order and consistent with provisions set by the Board at the time of award. He requested Board authorization to make the following payments:

<u>Grant Recipient/Activity</u>	<u>Requested Amount</u>
Town of Oldham/Drinking water system facility plan development	\$ 1,000.00
SDSM&T/Water quality data trend analysis (Kunza)	\$ 798.63
SDSU/Use of agricultural residue in nitrate bioreactor (hua)	<u>\$ 227.96</u>
<b>Total</b>	<b>\$ 2,026.59</b>

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**Motion** by Duffy, seconded by Weatherly to authorize payments totaling \$2,026.59 as requested. Motion carried unanimously.

### Project Assistance Request(s)

SDSU Storm water Filtration Project - Dr. Guanghui Hua provided the Board with an update and summary on the District-funded project entitled, "Development of Mixed Media Filtration for Stormwater Runoff Treatment in South Dakota." The project explored options for creating small-scale filtration basins into which municipal storm water could be directed with a goal of reducing the sediment, nutrient and/or bacteria load they are carrying before they enter a river/stream. The project started with laboratory tests to assess the applicability of various media under various conditions, leading to a field demonstration located adjacent to the Camelot Intermediate School in Brookings. Results suggest that a mixed media of natural rock products and iron/steel scraps are effective at reducing bacterial and nutrient loads in storm water runoff.

Dr. Hua is proposing to pursue additional funding to continue this line of investigation. He has developed a companion project, entitled "Bacteria Removal from Storm water Using Steel Byproduct Filters," with the goal of evaluating the long-term performance of a field steel byproduct filter for *E. coli*/bacteria removal in storm water. Laboratory experiments will also be conducted to evaluate different environmental factors that can affect *E. coli*/bacteria removal using steel byproduct filters. As with the original project, primary funding (\$70,000) is being sought from the United States Department of Transportation Mountain Plains Consortium. However, this grant source does require one to one

match. SDSU would provide \$40,000 in in-kind support, and Dr. Hua requested \$30,000 from the District.

**Motion** by Duffy, seconded by Anderson to provide District cost-share assistance of up to \$30,000 to Dr. Hua and SDSU in support of the project, “Bacteria Removal from Storm water Using Steel Byproduct Filters,” as requested, subject to the project also receiving support from the USDOT Rocky Mountains Plains Consortium. Motion carried unanimously.

### **Regional Water Resource Activities Updates**

Friends of the Big Sioux River - Dana Loseke, Chairperson of the Friends of the Big Sioux River, provided the Board with an overview of organizations activities and function, and to provided updates on topics of mutual interest and concern.

City of Sioux Falls - Tim Stefanich, City of Sioux Falls Public Works Department, briefed the Board on ‘recent’ reports of aquifer contamination from perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS). He noted that the chemicals PFOA and PFOS were widely used to make carpets, clothing, fabrics for furniture, paper packaging for food and other materials that are resistant to water, grease or stains. They were also used for firefighting at airfields and in a number of industrial processes. It is in the latter role (fire fighting at airfields), that the shallow Big Sioux Aquifer in and around the Sioux Falls airport that has apparently resulted in problems. Detection of these chemicals at very low levels was first noted several years ago, and use of any impacted wells has been suspended. Monitoring continues, and while detections have been minimal, the wells remain off-line. The City is working with the Air National Guard to remediate the area.

Grant Conservation District - John Parker, District Manager for the Minnehaha Conservation District, provided the Board with an overview of organizations activities and function, and to provided updates on topics of mutual interest and concern.

SDSU Agricultural & Biosystems Engineering - Dr. John McMaine, SDSU Department of Agricultural & Biosystems Engineering, provided an update on his efforts on the District supported efforts to promote Low-Impact Municipal Development. He provided examples from several workshops that have been held, and images of a rain installed in Sioux Falls.

### **Adjournment**

There being no further District business, Chairman Jarrett declared the meeting adjourned at 12:53 p.m.

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John Moes, Secretary