



**East Dakota Water Development District**  
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**MINUTES**  
**April 16, 2015**

The Board of Directors of the East Dakota Water Development District (EDWDD) held a regular meeting on April 16, 2015, at the South Dakota Association of Rural Water Systems Office, 203 Center Street West, Madison. Chairman Jarrett called the meeting to order at 9:35 a.m. The following persons attended:

**Directors Present**

Mark Anderson  
Lois Brown  
Gary Duffy  
Martin Jarrett  
John Moes  
Jerry Soholt  
Janelle Weatherly

**Others Present**

Barry Berg, SD Association of Conservation Districts  
Jeremiah Corbin, SD Association of Rural Water Systems  
Dennis Davis, SD Association of Rural Water Systems  
Bonnie Dyebedahl, South Dakota Farm Bureau  
Michelle Goodale, Lake County Conservation District  
Roger Hageman, Lake County Commission  
Dana Loseke, Friends of the Big Sioux River  
John Maursetter, Lake County  
Carolyn Rudebusch, Lake County Conservation District

**Directors Absent**

Mary Ellen Connelly  
Kay Kassube

**Staff Present**

Jay Gilbertson

**Administrative Items**

**Approval of Agenda**

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

**Minutes** - The Board reviewed the Minutes of the March 19, 2015, meeting.

**Motion** by Soholt, seconded by Duffy to approve the Minutes as presented. Motion carried unanimously.

**Financial Reports** - The Board reviewed the March 2015 Financial Reports.

**Motion** by Soholt, seconded by Brown to accept the March 2015 Financial Reports. Motion carried unanimously. Chairman Jarrett then asked that the report be placed in the District files.

**Report of Meetings and Conferences** - Director Brown attended the March 25<sup>th</sup> meeting of the Central Big Sioux River Watershed Project Steering Committee in Sioux Falls.

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Director Duffy attended the KingBrook Rural Water System Annual Meeting in Arlington on April 8<sup>th</sup>.

Director Moes attended the April 13<sup>th</sup> meeting of the Grant County Planning and Zoning Commission in Milbank.

Director Soholt reported on the March 26 & 27 meeting of the South Dakota Board of Water and Natural Resources held in Pierre.

Director Weatherly met with Flandreau Santee Sioux Tribe Department of Natural Resources staff on April 15<sup>th</sup> and stakeholders interested community development in Moody County in Flandreau.

The Manager briefly commented on the following meetings he attended:

1. March 20 - Brookings. Brookings County Planning & Zoning Board.
2. March 24 - Brookings. Brookings County Commission.
3. March 25 - Sioux Falls. Central Big Sioux River Watershed Project Steering Committee.
4. March 26 & 27 - Pierre. South Dakota Board of Water and Natural Resources.
5. April 1 - Brookings. Brookings County drainage discussions.
6. April 8 - Ortonville, MN. Minnesota River Headwaters Watershed Restoration and Protection Strategy (WRAPS) Partner meeting.
7. April 13 - Vermillion. Clay County Planning & Zoning Board.
8. April 15 - Rapid City. Western South Dakota Hydrology meeting.

Upcoming Meetings -

1. **April 21** - Pierre. South Dakota 319 NPS Task Force meeting.
2. **April 21 & 22** - Pierre. South Dakota 319 Watershed Projects Coordinator meeting.
3. **April 30 & May 1** - Best Western Ramkota, Rapid City. SD Association of Rural Water Systems Managers Group meeting.
4. **May 6 & 7** - Matthews Training Center, Pierre. SD Water Management Board.
5. **May 12 - 9:00 a.m.** - South Dakota State University campus, Brookings. 22nd Annual Big Sioux Water Festival.
6. **May 13 - 1:00 p.m.** - Ortonville, MN. Minnesota River Headwaters WRAPS Partner meeting.
7. **May 14 - 9:00 a.m.** - EDWDD Office, Brookings. May EDWDD Board of Directors meeting.
8. **May 19 & 20** - University of Wisconsin, Madison, WI. Geological Society of America North-Central Sectional meeting.

Payment Requests - Deuel Conservation District - The Manager presented the Board with a payment request from the Deuel Conservation District (DCD). At the October 2014 meeting, the Board agreed to provide District cost-share assistance to the DCD to be applied toward the rehabilitation and repair its current no-till drill. Specifically, the Board agreed to cover fifty-percent (50%) of the costs, up to a cap of \$5,000. The work on the drill has been completed, and DCD has submitted a payment request for the District support. The total cost of the work came to \$8,404.51, and therefore the District share would come to \$4,202.25. The Manager indicated that the request contained documentation of the covered expenses, and recommended payment.

**Motion** by Moes, seconded by Duffy to authorize payment of \$4,202.25 to the Deuel Conservation District as requested. The Manager noted that this would complete the District's obligation for this effort. Motion carried unanimously.

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Out-of-State Travel Request - The manager requested Board authorization to attend the North-Central Sectional Meeting of the Geological Society of America, which will be held in Madison, Wisconsin, on Tuesday, May 19<sup>th</sup> and Wednesday, May 20<sup>th</sup>. The date for the May Board meeting was set for the 14<sup>th</sup> (second Thursday) to avoid conflict with these dates. He indicated that he would be out of the office from Monday, May 18<sup>th</sup> through Thursday, May 21<sup>st</sup>.

**Motion** by Weatherly, seconded by Soholt to authorize the Manager's attendance at the North-Central Sectional Meeting of the Geological Society of America as requested. Motion carried unanimously.

### **Local Water Resource Programs/Projects**

Lake County Environmental Office - John Maursetter, Lake County Environmental Protection Director, presented a summary of the activities and programs that his office is involved in.

Lake County Conservation District - Carolyn Rudebusch, Chair of the Board of Supervisors for the Lake County Conservation District (LCCD), and Michelle Goodale, LCCD Office Manager, provided a summary of programs and activities.

Big Sioux River Watershed Project - Barry Berg, Project Coordinator for the Central Big Sioux River Watershed Project, gave an update on project activities.

South Dakota Association of Rural Water Systems - Dennis Davis, Executive Director of the South Dakota Association of Rural Water Systems, briefed the Board on programs and activities.

### **Project Assistance Request**

South Dakota School of Mines & Technology - The Manager presented a project assistance request for \$25,000 in District project assistance funding from Drs. Lisa Kunza and Linda DeVeaux of the South Dakota School of Mines and Technology (SDSM&T). The request is for a project entitled "Pathogenicity potential of the bacteria in selected locations of the Big Sioux River." The Manager reviewed the project, which proposes to create a novel molecular water quality monitoring metric that accounts for the pathogenic potential of various aquatic environments. It would apply common molecular biology techniques to assess the potential of organisms in both fecally-impaired and unimpaired areas of the Big Sioux River in eastern South Dakota to acquire genetic material that could transform them from harmless to severely disease-causing. It will create a monitoring metric that assays for the presence (or absence) of approximately 30 known virulence genes at pre-determined sites along the Big Sioux River, which will allow for an extensive characterization of the resident bacterial population. Site-specific genetic fingerprints generated by these panels may determine how many variants of a particular pathogenic gene are present, measure the biodiversity of the water, and track changes in real time. It could also provide some insight into the potential for serious illness from the fecal contamination.

The sampling efforts for this project will be tied into existing monitoring locations currently being sampled by the South Dakota Department of Environmental and Natural Resources and the East Dakota Water Development District. In cooperation with the SDSM&T personnel, District staff will collect water samples for from six sites along the Big Sioux River on a bi-weekly basis over the course of the summer of 2015, followed by a three month period of data processing and analysis.

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The Manager noted that if successful, the techniques developed in this effort could be applied to future projects including a.) Creation of a pathogenicity index to provide water safety data that is lacking from current total coliform/E. coli testing, b.) Establishment of a temporal distribution of pathogenicity potential of the bacterial contamination of the Big Sioux River and other fecally-impaired waters across South Dakota, c.) Assessment of the effectiveness of currently implemented Best Management Practices, d.) Assessment of the effect of wastewater treatment on the Big Sioux River, e.) Comparison of unimpaired sites to those that are heavily influenced by livestock or human practices, f.) Correlation of the findings with results from routine testing for Total Suspended Solids and Total Fecal Coliform/E. coli levels, and g.) Use of the methods in a forensic application for source tracking. This project could benefit a variety of water resource agencies.

**Motion** by Soholt, seconded by Brown to provide up to \$25,000 in District cost-share assistance to SDSM&T in support of the "Pathogenicity potential of the bacteria in selected locations of the Big Sioux River" project as requested. Motion carried unanimously.

### Adjournment

There being no further District business, Chairman Jarrett declared the meeting adjourned at 12:45 p.m.

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John Moes, Secretary

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