

OFFICIAL BULLETIN

July-September 2010
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CONFERENCE ISSUE



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Members of the Conference are indebted to those members and others who have contributed articles and other materials for this publication.

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On the Cover: The Fargo effluent reuse facility. Photography by Larry Gougher.

The objectives of this Conference shall be: the advancement of the knowledge of design, construction, operation and management of water and wastewater systems; the promotion and encouragement, through annual meetings or otherwise, of an exchange of information and experience among its membership; the promotion and encouragement of the protection of public health and improved environment through the construction and efficient operation of water supply and wastewater treatment facilities; and the promotion of water and wastewater system operator education and certification programs.

*Article II of the Constitution of the
North Dakota Water and Pollution Control Conference*

Fargo Wastewater Reuse Supplies Ethanol Plant

Bruce P. Grubb, PE, Enterprise Director, City of Fargo

Background

In the summer of 2006, a new 100-million-gallon (MG) ethanol plant was being planned in eastern North Dakota. The developers of the ethanol plant originally wanted to construct the ethanol plant near their hometown of Clifford, North Dakota. However, due to truck and rail transportation accessibility and power availability problems, the ethanol plant was sited just west of Casselton, North Dakota, which is approximately 25 miles west of Fargo along Interstate 94 and approximately 35 miles south of Clifford. Final site selection for the ethanol plant primarily focused on rail access, truck access, crop availability, and power availability. An adequate water supply and wastewater discharge capabilities were not major considerations in the site-selection process.

The water supply requirements for the ethanol plant were estimated to range from approximately 790,000 gallons per day (gpd) during winter months to 1.4 million gallons per day (mgd) during warm summer months, with an annual average demand of approximately 955,000 gpd. The water supply requirements for the ethanol plant are presented in Figure 1. Water use in an ethanol plant is for three purposes: (1) process water, (2) boiler feed water, and (3) cooling tower water. As with many industries, the variable water supply requirements are largely due to higher evaporation rates from the cooling tower during warmer summer months.

The rural area surrounding the original ethanol plant site (near Clifford) is provided drinking water via Traill Rural Water District (TRWD). Legislation regarding rural water system boundaries established the right for rural

water districts to sell water to users within their defined service areas. The ethanol plant developers entered into detailed discussions regarding water supply from TRWD and developed a concept of constructing a new membrane treatment plant that would expand water service for TRWD and provide water supply for the ethanol plant.

When an alternate site was considered in the Casselton area, discussions with another rural water district, Cass Rural Water Users District (CRWUD), began. During this time, discussions with TRWD continued, but CRWUD had the legal right to sell water to the ethanol plant, which would be a major water user and revenue stream for the rural water district.

However, neither TRWD nor CRWUD had adequate water appropriations to supply the ethanol plant, and acquiring a new water appropriation involves a lengthy regulatory review process that exceeded the acceptable timeline of the ethanol plant developers. The limited existing water appropriations and limited water supply infrastructure posed significant technical, logistical, and regulatory challenges for the regional water systems. To combat the challenges associated with quickly obtaining a new water appropriation in a quantity-limited, drought-susceptible region, ethanol plant leaders approached Fargo city representatives in the fall of 2006. A map of eastern North Dakota showing the rural water districts, ethanol plant location, and the city of Fargo is presented in Figure 2.

Ethanol Water Supply Requirements

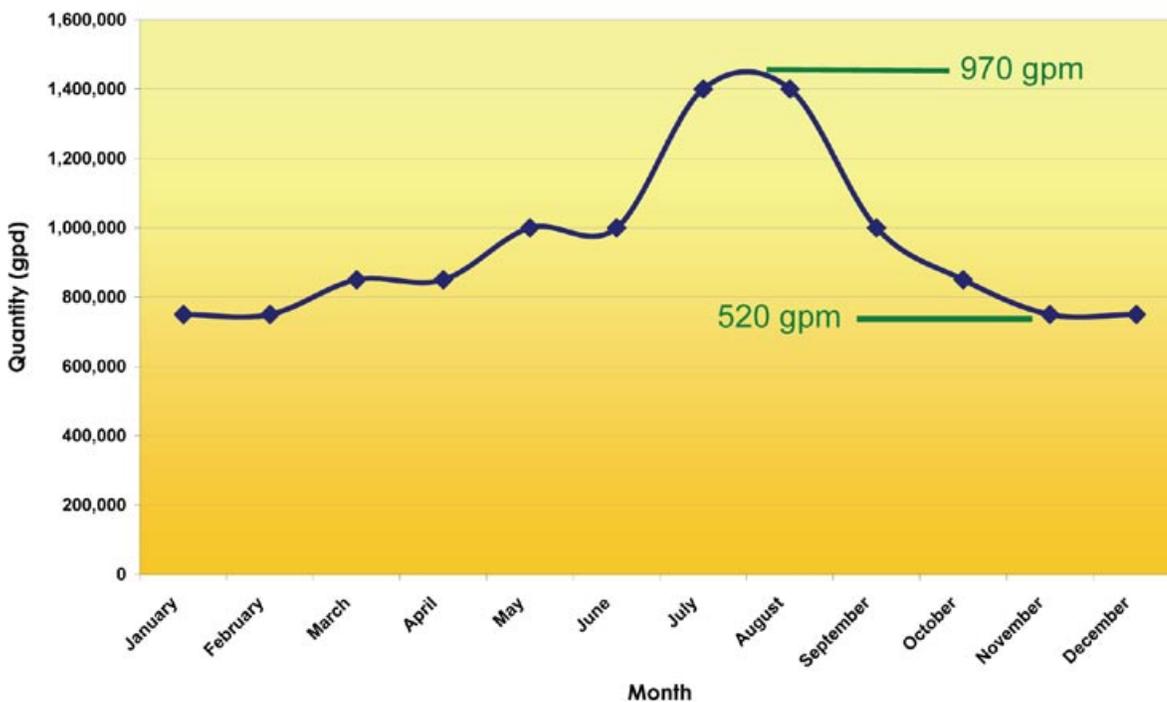


Figure 1: Ethanol plant water needs in gallons per day (gpd) and gallons per minute (gpm).

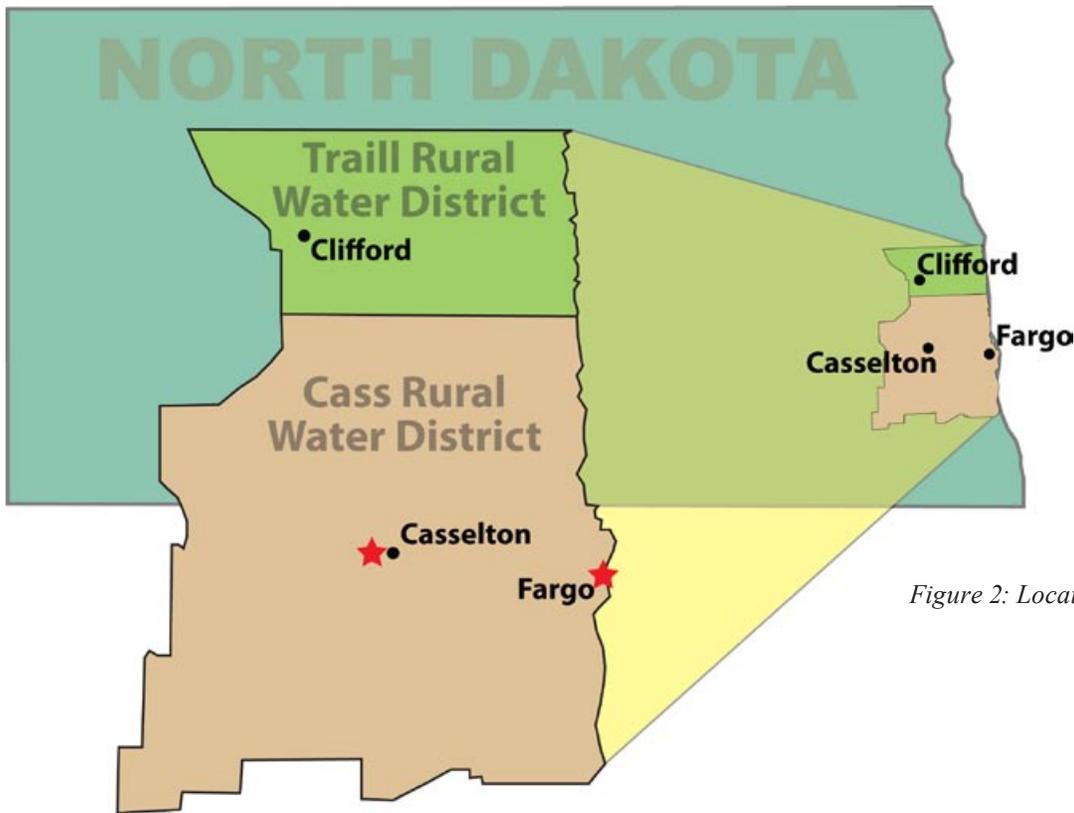


Figure 2: Location map.

Fargo Water Supply

The city of Fargo, located approximately 25 miles east of the ethanol plant site is the largest city in North Dakota. When the ethanol plant leaders first approached Fargo representatives, the discussions focused on the city’s drinking water supply system because the city holds significant surface water appropriations from the Red River and Sheyenne River. The city’s water appropriations include a permitted withdrawal from the Red River of 150 cubic feet per second (cfs) (~97 mgd) and two permitted withdrawals from the Sheyenne River for a combined rate of 79 cfs (~51 mgd). The city’s permitted water supply far exceeds its current water demand, but the permitted rates are available for growth. With an understanding of Fargo’s available water appropriations, ethanol plant leaders hoped they could obtain a reliable water supply from Fargo’s drinking water system.

Supply from the city’s drinking water system, however, presented its own challenges. The city has been working on long-term water supply planning for its own users for years due to concerns associated with drought impacts on surface waters in eastern North Dakota. Due to the significant attention that the region had placed on long-term, reliable water for eastern North Dakota, the city leaders were hesitant to commit a large portion of its drinking water stream to the ethanol plant. In addition, economics of supplying potable water to the ethanol plant resulted in the determination that the city’s drinking water supply did not fit into the economic plan for the ethanol plant. The city’s water rates (2007), presented in Table 1, included a fixed charge based on meter size along with a declining block volumetric charge.

Table 1: City of Fargo Water Rates, 2007.

Meter Size	Minimum Charge (\$ per monty)
5/8”	\$8.10
3/4”	\$16.20
1”	\$23.00
1 1/2”	\$35.50
2”	\$51.00
3”	\$104.00
4”	\$171.00
6”	\$343.00
8”	\$478.00
10”	\$686.00
Water Use (gallons per month)	Volumetric Charge (\$ per 1,000 gallons per month)
2,000-200,000	\$4.15
200,000 - 2,000,000	\$3.80
>2,000,000	\$3.45

Fargo Wastewater Supply

Leaders of the city and ethanol plant were both optimistic about working together to find a solution. The ethanol plant leaders needed a reliable water supply to move their project forward, and the city’s leaders were excited about the potential revenue associated with supplying water to the ethanol plant. In the group’s persistence to devise a water supply solution, the city’s Enterprise Director suggested wastewater reuse as a potential alternative. The city owns

and operates a trickling filter wastewater treatment plant with a sustained average discharge of approximately 11 mgd. It is rare for the ethanol industry to consider wastewater reuse as a viable water supply option, but after further consideration of their options and a basic understanding of advanced wastewater reuse technology, the wastewater reuse concept became an attractive option to the ethanol plant leaders. As a result, work quickly began to define the project requirements.

Permitting Process

Through the concept development stages with the ethanol plant, the city also held several discussions with the North Dakota State Water Commission (NDSWC) regarding water supply issues. The NDSWC indicated that the city has the right to use all of its water (including wastewater) to extinction if the water is used for “normal and customary” purposes inside the city limits. Since the ethanol plant is located outside city limits and its water use is not “normal and customary,” the NDSWC required a new permit for diverting wastewater away from its receiving stream, the Red River, which serves as the primary water supply source for several downstream communities and industries. As such, the wastewater diversion required a new water supply permit, which the ethanol plant was trying to avoid due to the typically lengthy permitting process that is normally associated with new permit applications.

The city of Fargo elected to apply for two new water supply permits for reuse of wastewater effluent. The first new permit application was for industrial use purposes for 4,480 acre-feet (annual use) intended for supplying the ethanol plant. The second new permit application was for rural/domestic water use purposes for 4,480 acre-feet (annual use). The second permit application did not have a specific user in mind at that time but was submitted for future consideration.

To satisfy the NDSWC and speed up the permitting process, the city of Fargo completed an evaluation of river flows compared to water supply requirements for several segments of the Red River downstream of the city of Fargo. For the analysis, historical river flows from 1987 through 2007 at three river gauging stations were compared to downstream permitted water withdrawal rates. The three river gauging stations, or nodes, include: (1) confluence of the Sheyenne River and Red River just downstream of Fargo; (2) Red River near Halstad, Minnesota; and (3) Red River just downstream of Grand Forks and just downstream of the confluence of the Red Lake River and Red River. Permitted water supplies from downstream water users were subtracted from historical river flows at each node. The two new appropriation requests from the city of Fargo (industrial permit and rural/domestic permit) were also added to the permitted water withdrawals to determine whether river flows could sustain the new permits. A graphic depiction of the nodes and water users for this evaluation is presented in Figure 3.

Results of the flow-versus-demand analysis revealed the lowest flows in the last 20-year period generally occurred in the late 1980s and early 1990s. The low flows experienced in the late 1980s were associated with a lack of precipitation (exceptionally dry weather pattern) in 1988 and 1989. The flows experienced during this time period fell below 4,000 acre-feet per month in December 1988 at the confluence of the Sheyenne River and Red River (Flow Node 1). More recently, relatively low flows occurred in late 2003 into early 2004, ranging from just over 10,000 acre-feet of flow per month at the confluence of the Sheyenne River and Red River (Flow Node 1) to approximately 18,000 acre-feet of flow per month at Grand Forks (Flow Node 3). Available water at Grand Forks is relatively high (as compared to the other nodes) due to the contribution from the Red Lake River. In the end, the flow-versus-demand evaluation for the Red River downstream of Fargo concluded that even during times of high demand and low river flows, such as drought conditions in the late 1980s, the volume of water in the Red River exceeded all water supply requirements. Through this analysis, the city of Fargo successfully provided enough information to the NDSWC to conditionally approve the city’s point-of-diversion permit and the water supply concept.

Three-way Memorandum of Understanding

With NDSWC approval, the city of Fargo, CRWUD, and the ethanol plant moved forward with the wastewater reuse water supply project. Based on the water quality requirements defined by the ethanol plant and the Fargo wastewater treatment facility (WWTF) effluent water quality, the city of Fargo determined that multiple membrane technologies, including full reverse osmosis treatment, would be required. The water quality requirements for the ethanol plant and the Fargo WWTF effluent water quality are presented in Table 2.

Table 2: Water Quality Parameters - Minimum Supply Requirements and Estimated Fargo WWTF Effluent Concentrations, in parts per million (ppm).

Parameter	Ethanol Water Quality	Estimated Fargo WWTF Effluent
Chloride (Cl ⁻)	≤ 10 ppm	90-120 ppm
Calcium (Ca ²⁺)	≤ 10 ppm	60-85 ppm
Hardness as (CaCO ₃)	≤ 10 ppm	300-500 ppm
Silicon (SiO ₂)	≤ 3 ppm	5-8 ppm
Bio Oxygen Demand (BOD ₅)	≤ 2 ppm	5-15 ppm
pH	7 to 8.5	7-8

A Memorandum of Understanding (MOU) between the city of Fargo, CRWUD, and the ethanol plant was drafted to document the project specifics. The MOU expanded

RED RIVER OF THE NORTH

NORTH DAKOTA DEMAND SUMMARY

Fargo to Pembina

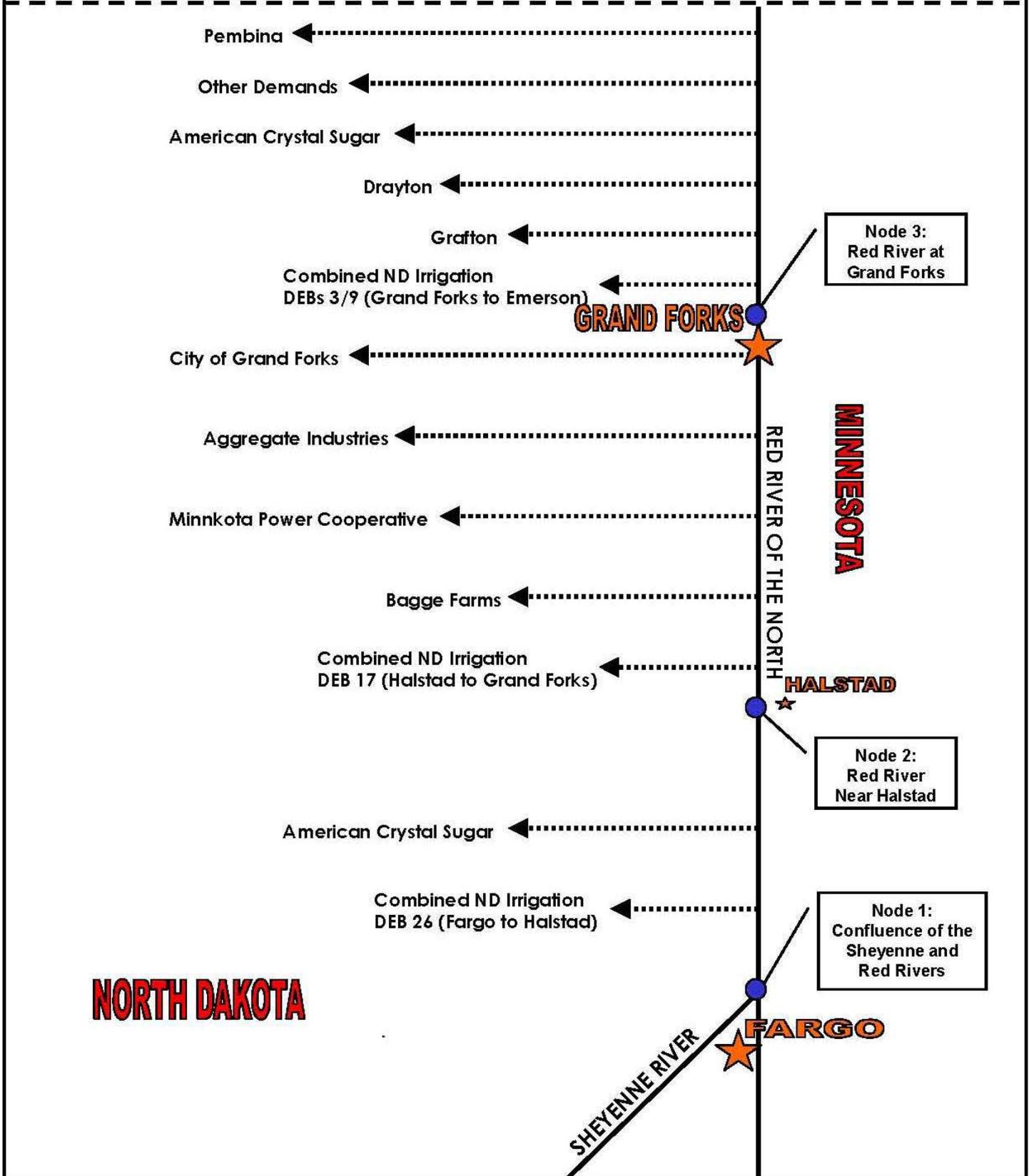


Figure 3: Red River flow nodes and water demands

on the preliminary project concept to define the treatment requirements, the requirements of each project component, the responsibilities of each entity, the project timelines, cost participation, operation and maintenance requirements and responsibilities. The MOU became a very comprehensive document that required several months to complete.

The final MOU defined that the city of Fargo would operate an Effluent Reuse Facility (ERF) capable of producing 1.4 mgd of reverse osmosis quality water. The city of Fargo would sell reclaimed water to CRWUD, who will in turn sell the reclaimed water to the ethanol plant. It was defined that CRWUD would be responsible for construction of the ERF, while the city would be responsible for providing the WWTF effluent, a site for construction of the facility, and operation of the membrane facility. The ethanol plant would use the reclaimed wastewater for boiler feed water, cooling tower water, and ethanol production process water. In addition, the MOU defined that the ethanol plant would send its cooling tower blow-down water back to the Fargo WWTF for treatment and discharge. Fargo and CRWUD would also share responsibility for construction of parallel 26-mile pipelines to/from the Fargo WWTF and the ethanol plant. A

project schematic of the wastewater reuse project concept that was developed as an attachment to the MOU is presented in Figure 4.

One of the critical parts of the MOU was to define the cost participation for the project. Since the ethanol plant was the sole user of the reclaimed water, its financial responsibility included the capital cost of the ERF as well as the pumping station and pipelines. The capital costs for the project were split into three components: (1) the pipelines between the Fargo WWTF and the ethanol plant; (2) the ERF building, including the high service pump station; and (3) the treatment process equipment. CRWUD and the ethanol plant retained two local engineering firms to complete the design of the pipelines and ERF. The city of Fargo and its consultant provided detailed review of the design and other project documents.

The pipelines include approximately 26 miles of 12-inch water supply pipeline from Fargo to the ethanol plant and approximately 26 miles of 8-inch return pipeline back to the Fargo WWTF. Both pipelines were designed and constructed primarily using rural water standard practices, which include

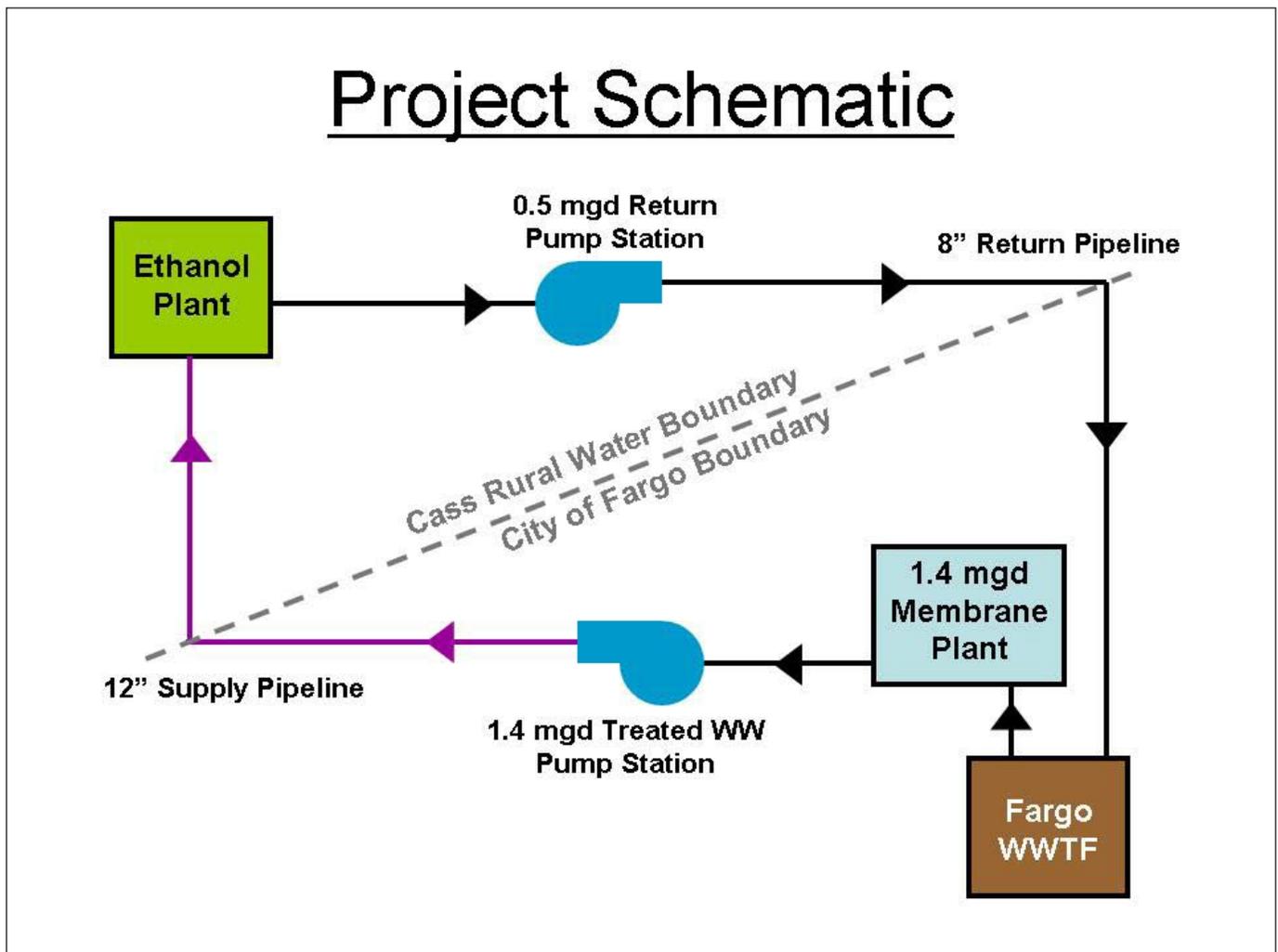


Figure 4: Wastewater reuse project schematic

limited backfill and compaction and ASTM standard PVC pipe. The portion of the pipelines that were constructed within Fargo's city limits were constructed using municipal standard pipeline construction practices and purple AWWA C900 PVC pipe. The low bid for the pipeline project was approximately \$3.8 million.

The firm hired by CRWUD to design the ERF conducted interviews of various treatment process equipment suppliers and ultimately elected to sole source the majority of the treatment process equipment from Siemens. The treatment process includes three pressurized ultrafiltration (UF) skids as pretreatment for four reverse osmosis (RO) skids. Siemens was responsible for providing the membrane treatment units and the chemical cleaning systems. The negotiated equipment procurement contract for these items included a capital cost of approximately \$3.3 million.

In addition to housing the membrane treatment equipment, the ERF includes an operating room, a mechanical room, an electrical room, a chemical storage room, and the high service pumps. The building is constructed with block and brick walls to match the existing buildings at the Fargo WWTF, a double Tee roof, and floating concrete slab floor.

The ERF building was designed and bid using normal bidding procedures, and the low bid was approximately \$5.3 million.

The total capital cost for the treatment portion of the ERF, including the equipment procured from Siemens and the ERF building, was approximately \$8.6 million. Based on the rated capacity of 1.4 mgd, this equates to a cost of approximately \$6 per gallon.

With respect to operation and maintenance (O&M) costs, it was defined in the MOU that the city of Fargo would own the water resource and operate the ERF. The city of Fargo defined the value of the water service at \$1.50 per 1,000 gallons. O&M costs for wastewater reuse systems with dual membrane treatment processes are not readily documented, so the city estimated the O&M costs for the ERF at \$1.02 per 1,000 gallons. As such, the MOU states that the city will sell the reclaimed water to CRWUD for \$2.52 per 1,000 gallon. CRWUD will charge the ethanol plant another \$0.40 per 1,000 gallons for pipeline O&M and administrative costs. Since the true O&M costs for the ERF will not be fully defined until after successful operation, the O&M costs are adjustable on a five-year cycle. Additional provisions

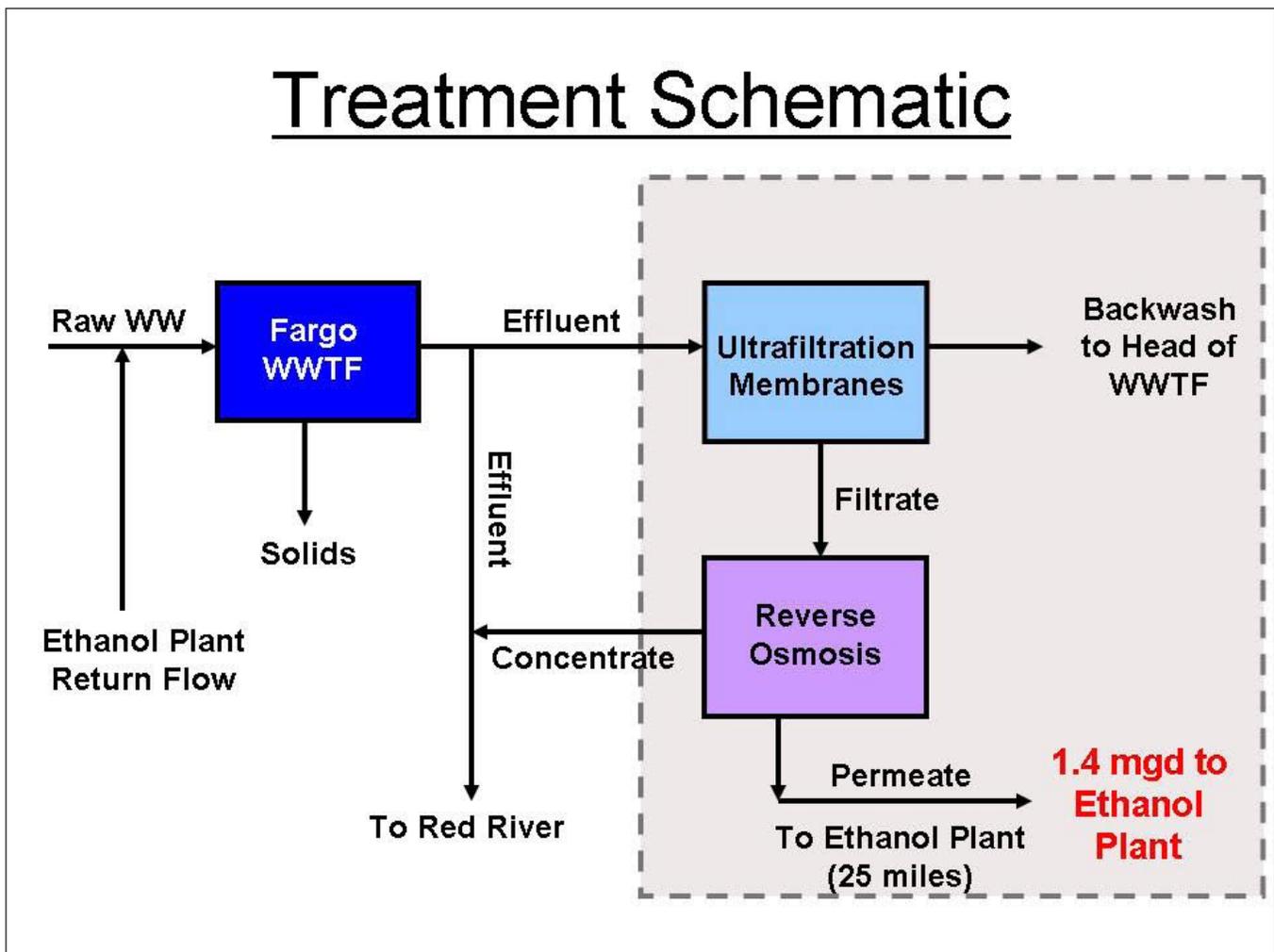


Figure 5: Treatment process schematic

cover regular water service rate increases as well as large, unforeseen costs associated with major repairs.

Cooperation Leads to Success

The project design and equipment procurement was completed with review and input from all three stakeholders. The selected water reclamation process utilizes ultrafiltration (UF) membranes followed by reverse osmosis (RO) membranes to meet the water quality and quantity requirements of the ethanol plant. A process schematic is presented in Figure 5.

The final design for the ERF includes diverting treated effluent from the Fargo WWTF final clarifiers into a wet well in the new ERF. The treated effluent is pumped through strainers and three UF membrane skids. The UF backwash is directed to the WWTF headworks through an adjacent gravity sewer. The UF filtrate discharges to a second wet well where it is pumped to three RO membrane skids. The RO concentrate is blended with the WWTF effluent stream prior to chlorination and then discharged to the receiving stream. The RO permeate discharges to a clearwell where high pressure pumps then pump the reclaimed water to the ethanol plant. The cooling tower blow-down water is returned from the ethanol plant to the WWTF headworks. Chemicals used in the process include chloramines to protect against bio-fouling of the membranes, anti-scalant for membrane protection, and strong and weak acid solutions for membrane cleaning. (See Figure 5 on page 9.)

This project showcases the exciting outcomes that resulted from an industry's need for a high quality water supply, combined with the city's resourceful and productive approach, collaboration with CRWUD, and advanced water reclamation technologies. The emergence of membrane technologies for treating wastewater effluent is a cornerstone in the success of this project that will help bring economic development to the region.

Looking to the Future

Now that the project is completed and operational, the city of Fargo is continuing to consider potential options for expanding its wastewater reuse system. In addition to potentially supplying additional water users with reclaimed water, the city views the wastewater reuse system as a potential component of its drought management strategy that could effectively reduce their water supply requirements during severe drought conditions.

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President's Letter

Dear Conference Members and Friends of the Conference:

The annual convention of the North Dakota Water and Pollution Control Conference is an effort jointly sponsored by the North Dakota Water and Pollution Control Conference, the North Dakota Water Environment Association, the North Dakota Section of the American Water Works Association and the North Dakota Chapter of the American Public Works Association. On behalf of these sponsoring organizations, it gives me great pleasure to invite you to attend the 82nd Annual Conference on October 12, 13 and 14 at the Holiday Inn of Fargo.

Each year, the sponsoring organizations assemble technical sessions highlighting projects and issues affecting our region. The conference program this year continues that tradition and provides opportunities for professional growth, a vendor exhibition hall, tours of municipal facilities, a setting for socializing and networking with peers, and the chance to recognize outstanding accomplishments of our colleagues.

You are an important part of the success of the Annual Conference. I hope you will attend and look forward to seeing you in Fargo!

Sincerely,
Miranda Kleven, President
North Dakota Water and Pollution Control Conference



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Please include any meals your spouse/guest is planning to attend:

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Tues. Buffet (\$29.00) _____

Wed. Breakfast (Free) _____

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Wed. Banquet (\$31.00) _____

Thurs. Luncheon (\$11.00) _____

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Our check is enclosed _____

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NDWPCC or ND Water & Pollution Control Conference

E. PLEASE CHECK ALL THAT APPLY.

Yes No Do you qualify as a water treatment or water distribution operator for a system serving 3,300 or less? This will determine eligibility for reimbursement.

Yes No Do you plan to participate in the golf tournament starting at 1:00 p.m. on Tuesday? Your average score or handicap _____. The golf course will be charging a green and golf cart fee.

Yes No Do you plan to attend the Student and Young Professionals reception on Tuesday?

Yes No Do you plan to participate in the field trips to Fargo municipal facilities on Wednesday morning? Transportation will be provided.

F. USE ONLY ONE NAME PER APPLICATION.
 (Make copies if more are needed.)
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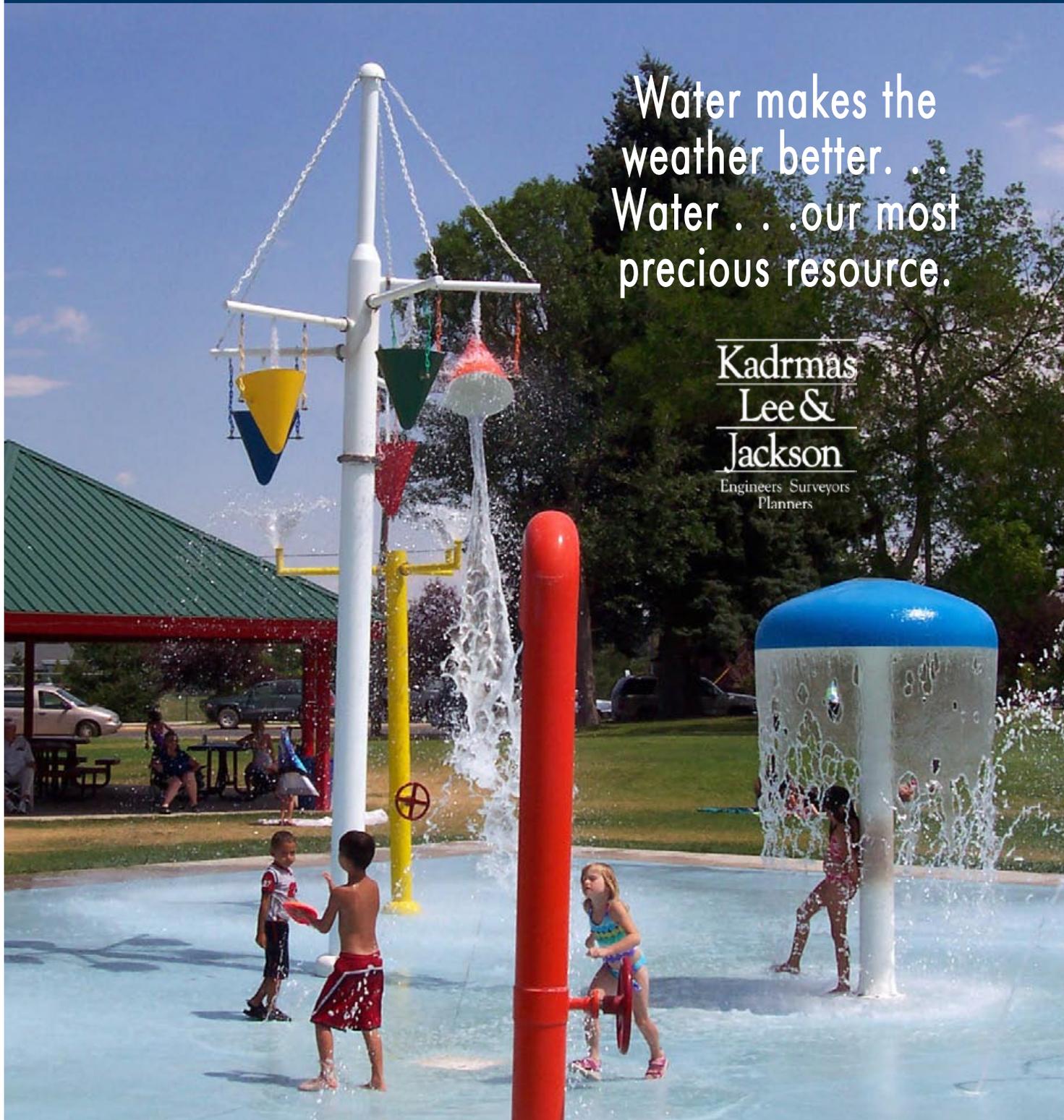
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2010 MEETING SCHEDULE

Monday

7:30 p.m. **Preconference Meeting**
North Dakota Section of the American Water Works Association (NDAWWA)
Frontier Room of Dakota Hall

Tuesday

7:30 - 11:30 a.m. **Water and Wastewater Operator Certification Examinations**
North Dakota Department of Health
Mezzanine Suite I and II

7:30 a.m. **Officers Meeting**
NDAWWA
Frontier Room of Dakota Hall

8:00 a.m. **Officers Meeting**
North Dakota Chapter of the American Public Works Association (NDCAPWA)
Embassy A Room

8:00 a.m. **Officers Meeting**
North Dakota Water Environment Association (NDWEA)
Embassy B Room

9:30 a.m. **Officers Meeting**
Joint Board of Directors of the North Dakota Water and Pollution Control Conference (NDWPCC), the NDCAPWA, the NDWEA, and the NDAWWA
Frontier Room of Dakota Hall

10:30 a.m. **AWWA Committee Meetings**
NDAWWA
Frontier Room of Dakota Hall

11:30 a.m. **Business Meeting**
NDCAPWA
Sterling and Crowne Rooms of the Great Hall

1:30 - 4:15 p.m. **Concurrent Sessions**
Dakota Hall and Harvest Hall

Wednesday

9:00 a.m. **North Dakota Operator Certification Advisory Committee Meeting**
Mezzanine Suite IV

12:00 p.m. **Business Meeting**
NDAWWA
Pool Patio

1:30 - 4:15 p.m. **Concurrent Sessions**
Dakota Hall and Harvest Hall

Thursday

7:30 a.m. **Annual Public Works Directors and City Engineers Meeting**
Mezzanine Suite I

8:30 - 11:15 a.m. **Concurrent Sessions**
Dakota Hall and Harvest Hall

11:30 a.m. **Business Meetings**
NDWEA and NDWPCC
Sterling and Crowne Rooms of the Great Hall

FUTURE CONFERENCES

2011 - Bismarck, October 11, 12 and 13, Ramkota Hotel

2012 - Minot, October 16, 17 and 18, Grand International Inn

2013 - Grand Forks, October 22, 23 and 24, Alerus Center

TUESDAY, OCTOBER 12, 2010
AFTERNOON CONCURRENT SESSIONS

11:30 a.m.
 Luncheon and Business Meeting, NDCAPWA
 Sterling and Crowne Rooms of the Great Hall
 President Darin Schaeffer, Presiding
 Guest Speaker:

Welcome: Fargo Mayor Dennis Walaker
 NDWEA President Skip Rapp

Session A

Dakota Hall
 Moderator: Sarah Volk, PR Committee, NDAWWA

1:30 p.m. Title: To Be Announced

Speaker: Don Broussard, Vice President
 AWWA, Water Operations Manager,
 Lafayette, Louisiana Utilities System

2:30 p.m. Title: "Arsenic Removal Using Iron-
 Impregnated, Granular-Activated
 Carbon"

Speaker: Qigang Chang, PhD Candidate,
 NDSU

3:00 p.m. Break, Sterling and Crowne Rooms

3:15 p.m. Title: "Stage 2 DBPR - Getting to Know
 More"

Speaker: Lydia Fewless, Environmental
 Scientist, ND Department of Health

4:15 p.m. Adjourn

5:00 - 7:00 p.m. Buffet Dinner, Pool Patio

7:00 - 9:00 p.m. Student and Young Professionals
 Reception
 Buffalo Wild Wings, 1501 42nd St S

Session B

Executive and Board Rooms of Harvest Hall
 Moderator: Skip Rapp, President, NDWEA

1:30 p.m. Title: "Sanitary Collection System
 Improvements - South Fargo's Future"

Speakers: Brenda Derrig, City of Fargo
 Tim Paustan, Project Manager, Ulteig
 Engineers, Inc.

2:30 p.m. Title: "Fargo Flood Project"

Speaker: April Walker, City of Fargo

3:00 p.m. Break, Sterling and Crowne Rooms

3:15 p.m. Title: "NDSU AWWAWWF Student Chapter
 WEFTEC Design Project"

Speaker: To Be Announced

3:45 p.m. Title: "UND AWWAWWF Student Chapter
 WEFTEC Design Project"

Speaker: To Be Announced

4:15 p.m. Adjourn

Session C

Director's and Conference Rooms of Harvest Hall
 Moderator:

1:30 p.m. Title: "High Resolution LiDAR, Oblique and
 Ortho Imagery for Public Works and
 Flood Mitigation and Response"

Speaker: Peter White, Regional Technical
 Manager, Pictometry International

2:30 p.m. Title: "Funding Capital Improvements"

Speaker: AE2S

3:00 p.m. Break, Sterling and Crowne Rooms

3:15 p.m. Title: "Doing Fast-track Concrete the Right
 Way"

Speaker: David Sethre, Marketing Director, ND
 Ready Mix & Concrete Products
 Association

4:15 p.m. Adjourn

WEDNESDAY, OCTOBER 13, 2010
AFTERNOON CONCURRENT SESSIONS

7:30 - 11:30 a.m. Tabletop Display Program, The Great Hall		12:00 Luncheon and Business Meeting, NDAWWA Pool Patio	
8:00 a.m. - 10:00 a.m. Free Breakfast, The Great Hall		President Duane Friesz, Presiding Guest Speaker: Don Broussard, Vice-President, AWWA, Arnaudville, LA	
	Session A	Session B	Session C
Dakota Hall	Executive and Board Rooms of Harvest Hall	Director's and Conference Rooms of Harvest Hall	
Moderator: Meredith Quinn, E&R Committee, NDAWWA	Moderator: Karla Olson, President-elect, NDWEA	Moderator:	
1:30 p.m. Title: "Distribution Modeling, Mapping, and Monitoring"	1:30 p.m. Title: "Algae-Assisted Wastewater Treatment and Nutrient Removal"	1:30 p.m. Title: "What's New in Concrete Admixtures"	
Speaker: AE2S	Speaker: David R. Stewart, Chief Technical Officer, Bio2 Solutions, LLC	Speaker: David Sethre, Marketing Director, ND Ready Mix & Concrete Products Association	
2:00 p.m. Title: "Back to Basics"	2:00 p.m. Title: "WWTP Design for Energy Efficiency"	2:00 p.m. Title: "GIS for Public Works"	
Speaker: Scott Schmidt, Ferguson Waterworks	Speakers: Tracy Ekola, Senior Project Manager, SEH Dustin Maas, Project Engineer, SEH	Speaker: Jason Fetch, GIS Project Manager, Bartlett & West, Inc.	
3:00 p.m. Break, Pool Patio	3:00 p.m. Break, Pool Patio	3:00 p.m. Break, Pool Patio	
3:15 p.m. Title: "Water System Panel Discussion"	3:15 p.m. Title: "Wastewater System Panel Discussion"	3:15 p.m. Title: "Practical Applications of GIS in Public Works"	
Speakers: Andy Job, City of Grand Forks Mike Grafsgaard, City of Devils Lake Jeron Fueller, City of Bismarck Steve Sprague, City of Fargo	Speakers: Bill Gefroh, City of Bismarck Rick Gillund, City of Enderlin Don Tucker, City of Grand Forks Gary Bracht, ND Department of Health Karla Olson, Ulteig Engineers, Inc.	Speaker: Neil Dobler, Public Works Division Director, Bartlett & West, Inc.	
4:15 p.m. Adjourn	4:15 p.m. Adjourn	4:15 p.m. Adjourn	
5:30 p.m. Social Hour Pool Patio			
6:30 p.m. Banquet: The Great Hall Invocation: Terry Rust Master of Ceremonies: Dan Michaels Entertainment: Night Fire Drum Line and Tyler Engberg			

THURSDAY, OCTOBER 14, 2010
MORNING CONCURRENT SESSIONS

Session A

Dakota Hall
 Moderator: Eric Volk, Trustee, NDAWWA

8:30 a.m. Title: "South Fargo's Future"

Speakers: Brenda Derring, City of Fargo
 Seth Lynne, Project Engineer, Ulteig
 Engineers, Inc.

9:00 a.m. Title: "Development of a City-wide Stream
 Restoration and Stormwater Plant"

Speaker: Ed Mattiesen, Principal, Wenck
 Associates

9:30 a.m. Title: "AWWA Update"

Speaker: Don Broussard, Vice President
 AWWA, Water Operations
 Manager, Lafayette, Louisiana
 Utilities System

10:00 a.m. Break, Sterling and Crowne Rooms

10:15 a.m. Title: "MS4 Permit Compliance and
 Beyond"

Speaker: Stan Hanson, Bonestroo

11:15 a.m. Adjourn

11:30 a.m.

Joint Luncheon and Business Meetings, NDWEA and NDWPCC, Sterling and Crowne Rooms of the
 Great Hall
 NDWEA President Skip Rapp and NDWPCC President Miranda Kleven, Presiding
 Guest Speaker: Cordell Samuels, WEF Board of Trustees, Pickering, ON, Canada

Session B

Executive and Board Rooms of Harvest Hall
 Moderator: Eric Dodds, Past President, NDWEA

8:30 a.m. Title: "Hot Topics/Regulatory Issues"

Speaker: Gary Bracht, Program Manager,
 ND Department of Health

9:00 a.m. Title: "Nutrient Criteria Development for North
 Dakota"

Speaker: Mike Ell, Program Manager,
 ND Department of Health

9:30 a.m. Title: "Drayton Red River Slide"

Speaker: Rodney Ambrosie, Executive Vice
 President,
 Wenck Associates, Inc.

10:00 a.m. Break, Sterling and Crowne Rooms

10:15 a.m. Title: "Lagoon Operation and Maintenance"

Speaker: Karla Olson, Project Manager,
 Ulteig Engineers, Inc.

10:45 a.m. Title: "Wastewater Treatment"

Speaker: Bill Gefroh, Lab/Industrial Pretreatment,
 Manager,
 City of Bismarck

11:15 a.m. Adjourn

Session C

Director's and Conference Rooms of Harvest Hall
 Moderator:

8:30 a.m. Title: "The 2009 Manual on Uniform Traffic
 Control"

Speaker: Steve Busek, Safety/Traffic
 Operations/ITS Engineer, Federal
 Highway Administration

9:30 a.m. Title: "Flyash: A Green Piece for Precast
 Concrete Products"
 Speaker: Dale C. Heglund, Sales Engineer,
 Cretex

10:00 a.m. Break, Sterling and Crowne Rooms

10:15 a.m. Title: "Instrument and Control System
 Sustainability – Avoiding
 Obsolescence"

Speaker: AE2S

11:15 a.m. Adjourn

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2010 ANNUAL CONFERENCE ACTIVITIES

REGISTRATION

Tuesday	8:00 a.m. - 5:00 p.m.
Wednesday	8:00 a.m. - 4:00 p.m.
Thursday	8:00 a.m. - 10:00 a.m.

Atrium/Press Room

WATER AND WASTEWATER OPERATOR CERTIFICATION EXAMINATIONS

Tuesday	7:30 a.m. - 11:30 a.m.
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Mezzanine Suite I and II

MEALS

Tuesday Lunch	11:30 a.m.
Sterling and Crowne Rooms of the Great Hall	
Tuesday Buffet Dinner	5:00 p.m. - 7:00 p.m.
Pool Patio	
Wednesday Free Buffet Breakfast	8:00 a.m. - 10:00 a.m.
Sponsored by vendors and suppliers The Great Hall	
Wednesday Lunch	12:00 p.m.
Pool Patio	
Wednesday Social	5:30 p.m.
Pool Patio	
Wednesday Banquet	6:30 p.m.
The Great Hall	
Thursday Lunch	11:30 a.m.
Sterling and Crowne Room of the Great Hall	

TABLETOP DISPLAY PROGRAM STERLING, CROWNE AND ROYALE ROOMS OF THE GREAT HALL

Tuesday	8:30 a.m. - 5:00 p.m.
Check in at the Registration Desk	
Tuesday	7:00 p.m. - 9:00 p.m.
Setup Time	
Wednesday	7:00 a.m. - 7:30 a.m.
Last chance setup time	
Wednesday	7:30 a.m. - 11:30 a.m.
Display Hours	
Wednesday	11:30 a.m. - 1:30 p.m.
Takedown Time	

STUDENT AND YOUNG PROFESSIONALS' RECEPTION

Tuesday	7:00 p.m. - 9:00 p.m.
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Buffalo Wild Wings
1501 42nd St. S.

GOLF TOURNAMENT

Tuesday	1:00 p.m.
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Golf course to be announced

FIELD TRIPS

Wednesday	9:30 a.m.
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Fargo Municipal Facilities
Transportation to the new lift stations and water reuse facility will be provided at the main entrance.

LOCAL ARRANGEMENTS COMMITTEE

Pete Bilstad	Tom Welle
Ron Hendricksen	Mark Blonigen
Kathy Redfield	Denise Akkerman
Karla Olson	Jim Hausauer
Eric Dodds	

National Representatives

NDWPCC 2010



Cordell Samuels
2009-2010 Board
of Trustees, Water
Environment
Federation

Cordell W. Samuels is a member of the 2009-2010 Board of Trustees and Vice President Nominee for the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, Va.

He has been the Plant superintendent for the Duffin Creek WPCP in the regional municipality of Durham in Ontario, Canada for the past five years. In that capacity, Cordell manages all aspects of one of the largest wastewater treatment plants in Ontario. Prior to his current position, Cordell worked in the city of Toronto for 22 years.

Cordell has been a WEF member since 1994 and served on the federation's House of Delegates and several WEF committees. He has been an active member of both the Water Environment Association of Ontario (WEAO) and the Canadian Water and Wastewater Association (CWWA). He was president of WEAO in 2005.

A member of the Select Society of Sanitary Sludge Shovelers, Cordell has received a number of WEF awards including the Hatfield Award in 1996 and the Arthur Sidney Bedell Award in 2008. Cordell holds a Class IV Wastewater Treatment and Class IV Collection Systems License in the Province of Ontario.

He received the Ordinary National Diploma in Engineering (O.N.C.) and the Higher National Diploma in Mechanical Engineering (H.N.D. Mech. Eng.) from Leeds Metropolitan University in Leeds, Yorkshire, England.

Jim Mahony Area Sales Manager	
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Don Broussard
Vice-President,
American Water Works
Association, 2010-2011



Don Broussard began his career in 1978 designing water and wastewater treatment for the Lafayette, Louisiana Utilities System. He is now the water operations manager for his multi-service, 100-year-old utility, which also provides electricity, telecommunication services and wastewater treatment.

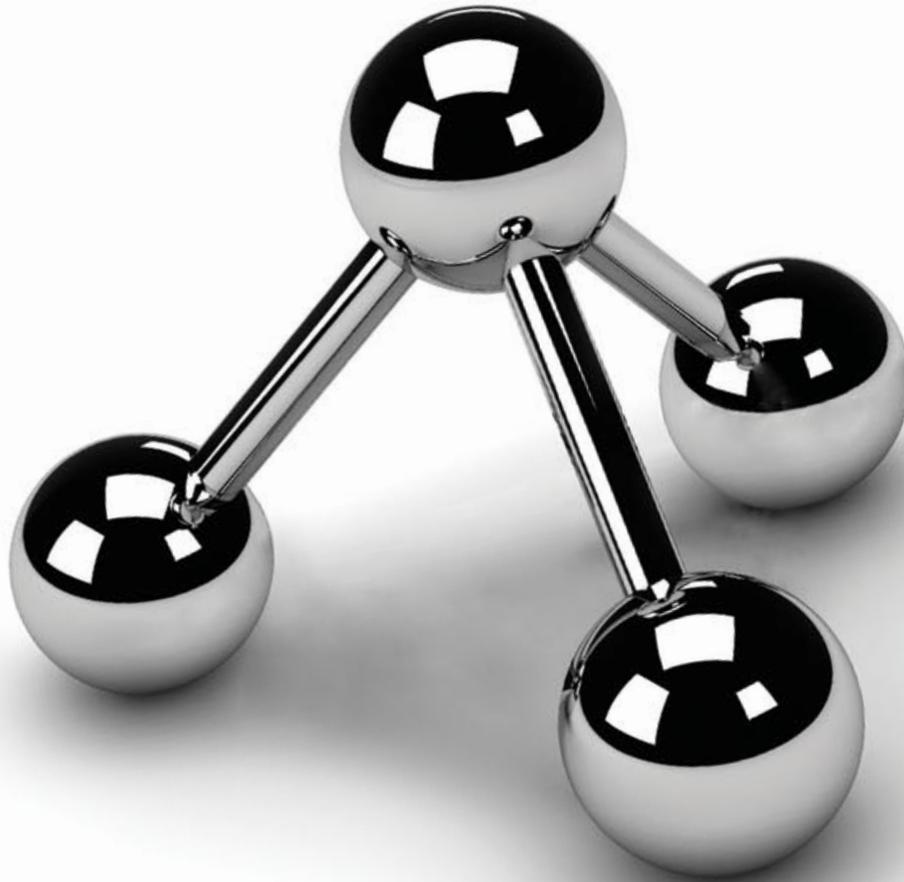
Don joined AWWA in 1993 and has held numerous positions on the association level. Since 2006, he has been a member of the AWWA Water Utility Council and the Southwest Section Water Utility Council. He currently chairs the Water Sector Coordinating Council. He is in his second year as the Southwest Section's director on the AWWA board. He joined AWWA in 1993 and has been section chair and vice-chair.

Don also co-founded the Louisiana WARN (Water/Wastewater Agency Response Network) with the Louisiana Rural Water Association. He has traveled extensively as a trainer for AWWA's WARN initiative and serves as a member of USEPA's Water Security Program Water Security Initiative Executive Committee and the U.S. Department of Homeland Security's Editorial Review Committee. After Hurricane Katrina, he became a liaison for the Louisiana Department of Health and Hospitals and USEPA to assist affected water utilities.

A registered professional engineer, Broussard holds Class IV certifications in water production, treatment, distribution, and wastewater collection and treatment.

He just received the Fuller Award from the Southwest Section, which previously has given him the Glen T. Kellogg Leadership Award. He has also been recognized with the George H. West Memorial Award from the Louisiana Conference on Water Supply, Sewerage, and Industrial Wastes.

Don and his wife Nannette live in Arnaudville, Louisiana.



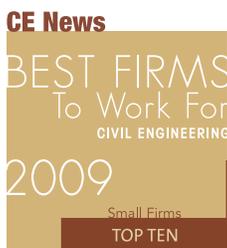
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Guide to Exhibitors in the Tabletop Display Program

North Dakota Section of the American Water Works Association Water Taste Contest

North Dakota Section of the American Water Works Association Water for People

North Dakota Water Environment Association

North Dakota Chapter of the American Public Works Association

North Dakota WARN

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flood control; flood plain modeling; hydraulic and hydrologic analysis; dams; airport design; land surveying and GIS services. Moore Engineering is 100 percent employee owned (ESOP) with offices in West Fargo, North Dakota and Fergus Falls, Minnesota.

Sweeney Controls Company Mike Phillips
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KLM Engineering, Inc. Shawn Mulhern
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Lake Elmo, MN 55042 Fax 651-773-5222
smulhern@klmengineering.com

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General Repair Service Jim Paulsen
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(Continued on page 34)

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2010 AWWA Fresh Ideas Poster Competition

The North Dakota Section of the American Water Works Association (NDAWWA) is pleased to announce an opportunity for students and young professionals to participate in the 2010 Water and Pollution Control Conference and share the results of their work and/or academic programs. This opportunity provides speaking experience and a chance to learn more about the rapidly evolving drinking water industry through interactions with other drinking water industry professionals.

Rules of Competition

The NDAWWA is holding the "Fresh Ideas Poster Session" which will include poster presentations by young professionals or those new to the industry. "Young Professionals" are those who have been in the water industry for 15 years or less, including, but not limited to, engineers, operators, designers, technicians, and students. Applicants should prepare a professional poster to present on Wednesday, October 13 from 7:30-11:30 a.m. at the 2010 North Dakota Water and Pollution Control Conference.

Judging will occur from 8:00–11:00 a.m. and the top three poster presentations will be announced at the Wednesday evening banquet.

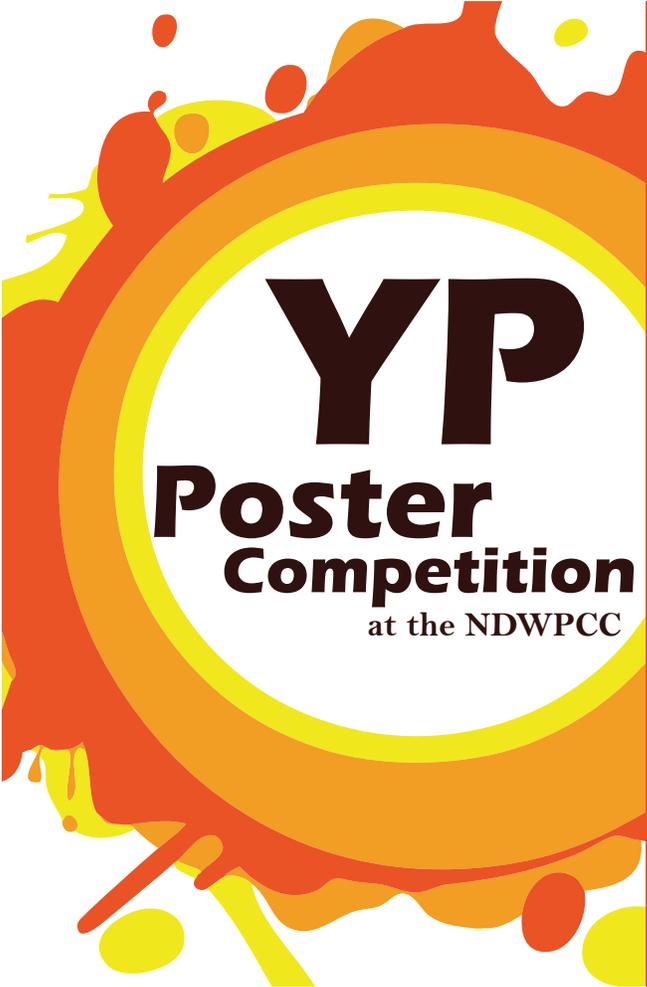
The top poster presenter will be awarded free registration and a cash award of \$1500 to cover expenses to attend the poster presentation at the Annual Conference & Exposition (ACE) 2011 in the "Fresh Ideas" Poster Session. The location for ACE 2011 is Washington, D.C.



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A large graphic on the left side of the page. It features a central white circle with the letters 'YYP' in a large, bold, black font. Below this, the words 'Poster Competition' are written in a bold, black font, and 'at the NDWPCC' is written in a smaller, black font. The entire graphic is set against a background of orange and yellow splatters and brushstrokes.

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at the NDWPCC 2010

YOUNG PROFESSIONALS
POSTER COMPETITION

Oct. 13, 2010

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BE SEEN! Posters will be on display for the public at the Conference from 7:30–11:30 am, Wednesday, October 13th.

BE HEARD! Presenters should be at their posters to explain their projects from 8:00–11:00 am, during which time judging will take place.

WIN BIG! The winner will be announced at the Wednesday evening banquet and will receive free registration to ACE in June 2011 in Washington, D.C. from AWWA, as well as \$1500 towards travel expenses from NDAWWA.

Contestants should be AWWA members new to presenting. Winner will be expected to present at ACE. Contact Meredith Quinn at 701-746-8087 or Meredith.Quinn@ae2s.com for more information or to enter the competition

Registration Form

YIP 2010 Poster Competition at the NDWPCC

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Representing: _____

Poster Title: _____

Address: _____

City, State, Zip Code: _____

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Number of Years: _____

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NDWPCC Joint Board Meeting Minutes

May 26, 2010

A meeting of the Joint Board of Directors of the North Dakota Water and Pollution Control Conference (NDWPCC); North Dakota Water Environment Association (NDWEA); North Dakota Chapter of the American Public Works Association (NDCAPWA); and North Dakota Section of the American Water Works Association (NDAWWA) was held on May 26, 2010, in the Cutty Sark Room of the Seven Seas Inn, Mandan, N.D. The meeting was called to order at 10:35 a.m. by NDWPCC President Miranda Kleven. Copies of the meeting agenda and January 1, 2010 through April 30, 2010 NDWPCC financial report were provided to each member. President Kleven asked those in attendance to sign the attendance sheets being circulated. The following board members and guests were present: Chuck Abel, Lisa Ansley, Gary Bracht, Mike Brisben, Eric Dodds, Joe Ferguson, Duane Friesz, Rick Gillund, Dan Jonasson, Brian Kistner, Miranda Kleven, Seth Lynne, Lance Meyer, Chad Miller, Karla Olson, Tim Paustian, Meredith Quinn, Skip Rapp, Rusten Roteliuk, Darin Schaffer, Dean Sletten, Hazel Sletten, Shawn Soehren, Gregg Stewart, Jacob Strombeck, Larry Thelen, Don Tucker, Eric Volk, Greg Wavra, Tom Welle, and Chad Zander.

President Kleven called for a motion to dispense with the reading of the minutes from the February 10, 2010 Joint Board Meeting and approve the minutes mailed to each member. Skip Rapp so moved, Rick Gillund seconded, and the motion carried.

President Kleven next called for the Treasurer's Report. Mike Brisben reported that the conference had a net loss of \$20,500.21 in fiscal year 2010 and total assets as of April 30, 2010 of \$57,419.69. Mr. Brisben noted that \$18,631.00 had been recently deposited, giving the conference net assets of \$76,050.69. Mr. Brisben also noted that the Conference paid \$111.00 federal income tax and \$37.00 state income tax for fiscal year 2009 due to a net profit of \$1,007.76 for *Official Bulletin* advertising versus publishing and mailing costs. Mr. Brisben indicated the profit was from 2008 advertising fees received after January 1, 2009. President Kleven called for a motion to approve the Treasurer's Report. Dean Sletten so moved, Dan Jonasson seconded, and the motion carried.

For the first item of old business, President Kleven reminded the joint board members that Mr. Brisben needed topics and presenter lists by June 15, 2010. Eric Dodds stated that Dr. Gullicks and Dr. Lin had been contacted and that student members would be willing to give up to six presentations. Further discussion ensued with Mr. Dodds suggesting a student track be offered as part of the concurrent sessions. Mr. Brisben noted that topics were routinely reviewed and placed into water, wastewater, or public works categories. Rusten Roteliuk recommended that student topics be scheduled in the appropriate category rather than a student

block. Mr. Dodds noted that attendance at the student sessions could be affected if scheduled during other technical sessions. Mr. Brisben further noted that groups willing to present multiple topics routinely provide a list of topics and those topics of interest were selected. Dean Sletten asked if the presentations would be research related. Mr. Dodds stated that both student chapters would be presenting on their Water Environment Federation Technical Exhibition and Conference (WEFTEC) design competition projects. Mr. Sletten suggested a fourth track during the tabletop exhibits. Tim Paustian noted that there could be some opposition from the vendors if the student sessions detract from the exhibitor program. Meredith Quinn shared that AWWA had a student poster competition and that winners of the state/local competition would be eligible. Ms. Quinn further suggested that the student poster competition be run in conjunction with the vendor program. Mr. Paustian noted that NDAWWA would provide a panel of judges and fund the trip to the annual AWWA conference. Joe Ferguson suggested a Wednesday afternoon poster session with further comments indicating the student competition would have fewer conflicts during the vendor program versus the technical sessions. Next, registration fees were discuss with Mr. Brisben stating that student fees were \$10.00, not including meals.

President Kleven called for the next item of old business. Mr. Brisben reviewed the PayPal option, noting that North Dakota Rural Water's use of PayPal at this year's expo was very successful. Mr. Brisben also noted that all that was needed was a website to which the PayPal business account could be linked. Mr. Paustian asked if payments other than registration fees could be made. Mr. Brisben noted that additional buttons could be created for vendor fees and *Official Bulletin* advertising. Mr. Sletten asked who would pick up the cost of the transaction fee. Eric Volk indicated that Rural Water took the hit this year but would reevaluate for the 2011 expo. Lisa Ansley moved to set up a PayPal account, Meredith Quinn seconded, and the motion carried.

Mr. Dodds reported on the next item of old business noting that the student/young professional reception was scheduled for Tuesday night October 12, 2010. Mr. Dodds also noted that young/new operators should be encouraged to attend. Mr. Brisben asked if donations would be funneled through the NDWPCC. Mr. Dodds agreed that having the conference handle the donations would be the most convenient.

President Kleven called for any other old business. Hearing none, she called for the first item of new business. Mr. Brisben reported on his meetings with the Holiday Inn convention director and local arrangement committee. The casino excursion and spouse/guest luncheon will not be offered, transportation will be provided for tours of the new facilities in Fargo, visits to the water and/or wastewater

plants will be on your own, and participation in the breakfast buffet poker would be expanded to include all interested vendors. Discussion also included dignitary gifts with a suggestion to make a donation to Water for People on behalf of the dignitaries. Further discussion by the joint board members concluded that the conference should continue to provide gifts that promote the state of North Dakota. Mr. Brisben indicated that a block of 160 rooms at \$89.95 had been reserved and that the conference rate would be honored for additional rooms if available. Mr. Brisben also noted that suites for the visiting dignitaries would be available at \$129.95.

Next, President Kleven asked for a report on the spring operator training sessions. Mr. Brisben reported that 331 operators attended and a total of 228 exams were written with a 71 percent passing rate.

President Kleven announced that the tentative dates for the 2015 meeting in Bismarck were set for October 5-9. Mr. Brisben indicated no dates are available for the 2015 WEFTEC meeting and that there could be a possible conflict.

President Kleven also announced that presenter, sponsor, and vendor packages will go out in early June.

President Kleven called for any other new business. Mr. Brisben noted that he visited possible future convention sites while in Fargo and that the Ramada Plaza Suites would be able to accommodate the annual conference should the joint board choose not to use the Holiday Inn.

Hearing no other new business, President Kleven entertained a motion to adjourn. Seth Lynne so moved, Rick Gillund seconded, and the motion carried.

The meeting adjourned at 11:20 a.m.

The NDCAPWA can be thanked for the refreshments and the noon luncheon.

Respectfully submitted,
Mike Brisben
Secretary/Treasurer
NDWPCC

Minutes of the Business Meeting **North Dakota Section of the American Water Works Association** *October 27, 2009*

The annual business meeting of the North Dakota Section of the American Water Works Association was held on October 22, 2009 at the Grand International Inn in Minot, N.D.

Mr. Joe Ferguson called the meeting to order at 11:50 am and recognized the head table, section officers, trustees, and AWWA vice-president Jeff Zdrojewski.

The first item of business was the Secretary's report, which consisted of the approval of the minutes from the last meeting held October 8, 2008 in Bismarck, N.D. The minutes were published in the conference issue of the *Official Bulletin*. Mr. Larry Thelen moved to approve the minutes as published, and Mr. Gary Bracht seconded. The motion passed.

The Treasurer's Report was given by Mr. Joe Ferguson. He stated the section has \$8,350.08 in the checking account, \$20,236.50 in the money market account, and \$80,000 in investments, giving the section a total of \$108,586.58 in total assets. Mr. Ferguson also stated the section had an income of \$26,702.54 and accrued expenses totaling \$36,150.08 giving the section a net loss of \$9,447.46 to date. Ms. Lisa Ansley moved to accept the treasurer's report as stated and Mr. Dean Sletten seconded. The motion carried.

Mr. Tim Paustian then gave the audit committee report. He stated there were no discrepancies with the books and that

the audit was completed by Mr. Tim Paustian and Mr. Eric Volk. Ms. Hazel Sletten motioned to approve the audit report. Mr. Duane Friesz seconded, and the motion passed.

The board held an election for a new trustee position. The two nominees were Mr. Wade Hesch from the city of Valley City and Mr. Dennis Larson for the city of Park River. As ballots were being distributed, Mr. Joe Ferguson read the candidates' biographies. Mr. Dennis Larson was elected.

Next, Ms. Sarah Volk took the floor and announced this year's operator certificates of achievement. She announced Daniel Overmoe, Barry Arntz, and Rick Olson received certificates this year.

Mr. Joe Ferguson then announced the Life Member awards. This year there were four recipients. Mr. Gordon Johnson, North Valley Water District; Mr. Clark Cronquist, Agassiz Water Users District; Mr. Bill Link, Walsh Rural Water District and Mr. Larry Amundson, Dakota Rural Water District received the awards.

Next, Mr. Jeff Zdrojewski took the floor and gave a brief talk about membership and involvement in AWWA and other similar organizations.

Mr. Joe Ferguson then announced the new chair of NDAWWA, Mr. Duane Friesz.

Mr. Friesz took the floor and presented Mr. Ferguson with the past-chair plaque and pin. Mr. Ferguson expressed his appreciation to the section and its members. Mr. Friesz then asked the board for a motion for adjournment. Mr. Brad Moser made the motion and was seconded by Ms. Nancy Huether. The meeting adjourned at 12:28 p.m.

Respectfully submitted,
Chad Miller
Secretary/Treasurer
North Dakota Section of AWWA

Minutes of the Spring Board of Trustees Meeting **North Dakota Section of the American Water Works Association** *May 26, 2010*

The Spring Meeting of Trustees was held at the Seven Seas Inn and Conference Center in Mandan, North Dakota on May 27, 2010. Present at the meeting was Greg Wavra, Eric Volk, Dean Sletten, Hazel Sletten, Lisa Ansley, Joe Ferguson, Tim Paustian, Chad Miller, Larry Thelen, Eric Dodds, Jacob Strombeck, Meredith Quinn, and Brian Kistner.

The meeting was called to order by Chair Duane Friesz at 8:02 a.m.

Secretary's Report

The first order of business was the Secretary's Report. Mr. Chad Miller stated the minutes of the winter board meeting were emailed to the board in the past weeks. The final minutes were distributed to the members and needed approval. Mr. Dean Sletten motioned to approve the minutes. Mr. Tim Paustian seconded, and the motion carried.

Treasurer's Report

The next order of business was the Treasurer's Report given by Mr. Greg Wavra. Mr. Wavra stated the section has \$17,528.47 in the checking account, \$20,276.62 in the money market account for a total of \$37,805.09 in the bank accounts. With this added to the funds in investments, the section has \$117,805.09 in total assets. He also stated from January 1, 2010 to May 24, 2010, the section had \$16,408.66 in income and 7,325.48 in expenses. This gives the section a profit of \$9,083.18 in that time period. Mr. Eric Volk made a motion to approve the Treasurer's Report, and Mr. Sletten seconded. The motion passed.

Committee Reports

Public Relations

Next on the agenda were committee reports. Ms. Hazel Sletten reported on behalf of the PR committee. She stated the committee met May 25, 2010. She stated they are planning on designing a calendar for the section events that could be distributed to members and/or placed on the website. Also, Ms. Sletten announced that the committee had approached Ms. Miranda Kleven about the possibility of her writing an operator training manual for the section's operators. Ms. Kleven has agreed to write the manual. Ms. Sletten stated the committee will meet with the Operator Certification Review Board to get additional information. She also stated the committee discussed updating the

plaques and certificates given to operators. The committee also discussed having a new prize for the Drinking Water Taste Test winner. She stated the committee plans to look into the cost of the new prizes and certificates for the next meeting. Ms. Sletten commented on Drinking Water Day at the state fair. Mr. Eric Volk stated that Drinking Water Day is scheduled for July 29 at the state fair and that there will not be a drinking water day at the Red River fair. There was discussion on the need for a new booth and attraction. There was discussion on a theme, game/activity, posters and giveaways for the booth. Mr. Greg Wavra stated he would be willing to staff the booth and that Mr. Jason Sorenson would be contacted to help. Next, there was some discussion on the possibility of cooperating with the North Dakota Water Environment Association on a joint booth during the fair.

Education and Research

Next, Ms. Meredith Quinn gave the Education and Research committee report. Ms. Quinn asked for judges for scholarship papers. Mr. Paustian, Mr. Larry Thelen, and Mr. Volk volunteered to judge the papers. Next, she discussed the Science Fair and distributed thank you notes from the participants. She then inquired about offering an award to the regional winners for drinking water projects. Also, she mentioned the need to find candidates for the Water Management Institute. The section has not sent a candidate for several years. She then gave the floor to Jacob Strombeck, NDSU student section. He stated the section has held seven meetings in the past months and has participated in several volunteer opportunities. He then discussed their field trip to Coteau, Dakota Gasification, and the Washburn and Riverdale membrane plants. He also discussed the section's plan to attend the Prairie Conference in Winnipeg this June. Next, Brian Kistner from the UND Student Section spoke about the section's aid in a high school competition, and their experience at the Surface Water Workshop. He stated the section had about 20 members this spring.

Membership

Mr. Sletten then gave an update on the membership committee. He stated the section has 243 active members. He mentioned the idea of having a social for members during spring training to help with membership retention and growth. Mr. Paustian agreed to help Mr. Sletten in the membership committee. Mr. Paustian then dispersed a

newly developed spreadsheet of current, late and dropped members.

Utility Committee

Mr. Friesz next gave an update on the utility committee. He led discussion on the fly-in to Washington, D.C. He stated he was able to meet directly with Senator Kent Conrad and discuss drinking water issues, specifically, and infrastructure bank. He stated the fly-in was successful and informative.

Director's Report

Ms. Ansley discussed the new AWWA executive director, David LaFrance, who started May 3, 2010. She next stated the section's delegate for the Water and Pollution Control Conference in October will be Don Broussard from the Southwest Section.

Surface Water Workshop Results

Ms. Quinn then gave the results for the Surface Water Workshop held April 27-29, in Fargo. She stated there were 162 attendees, 19 presenters and 12 students who displayed posters. She stated the net income for the section was \$1497.34. She then led discussion on a director for the next workshop and volunteers to help in its preparation.

Committee Updates

Trustee

Mr. Paustian stated he plans to meet with the other members to select a couple of candidates.

Fuller Award

Ms. Ansley stated, since the past winners are not available to help select a new award winner, she would head up the selection.

Operator Meritorious

Mr. Volk stated the committee will go through the membership lists and select a few candidates soon.

Regional Meeting of Section Officers

Mr. Paustian stated that Mr. Joe Ferguson, Ms. Ansley, Ms. Sletten, Mr. Charlie Vein, and he attended the meeting this year. He stated they covered several topics such as: life under the affiliation agreement, maintaining tax exempt status, membership retention and others. This led to discussion on the section's current tax exempt code. A review of the section bylaws will be completed to determine the correct tax exempt code the section falls under.

WARN

Mr. Wavra then gave an update for NDWARN. He stated they have held two meetings and organized a table-top exercise. The stated the table-top exercise had 35 participants and was very helpful in determining where improvements need to be made. He also stated the current insurance policy is at odds with the new insurance policies for the state.

Conference Speakers and Training

There was some discussion on the speakers that AWWA will provide for the Water and Pollution Control Conference in October. Ms. Quinn led a discussion on topics and speakers for the conference and asked for ideas.

Young Professionals

Ms. Quinn discussed a poster session at ACE called Fresh Ideas poster session. She stated she would like the section to host a poster session contest at the conference and asked for feedback. It was discussed that the section would need to coordinate with Mr. Mike Brisben of the NDWPCC to pursue a poster session.

2010 ACE

Mr. Dean Sletten is receiving the complimentary membership to ACE this year, and he has decided to attend.

Next, Mr. Volk inquired about a special conference like the membrane conference last year and if the section would want to pursue another in the future.

Finally, Mr. Paustian motioned for adjournment, Mr. Sletten seconded. The meeting adjourned at 10:22 a.m.

Respectfully Submitted,

Chad Miller

Secretary/Treasurer

North Dakota Section of AWWA

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2010	Fargo	Miranda Kleven	Grand Forks	1968	Dickinson	Bevan Shaw	Williston
2009	Minot	Lisa Ansley	Bismarck	1967	Grand Forks	A.E. Forsman	Grand Forks
2008	Bismarck	Terry Rust	West Fargo	1966	Mandan	Alvin Mickelson	Casselton
2007	Fargo	Mark Blonigen	Fargo	1965	Fargo	Ken Ruby	Fargo
2006	Minot	Tom Welle	Moorhead	1964	Minot	Al Swanson	Jamestown
2005	Bismarck	Jack Long	Bismarck	1963	Valley City	Carl Torkelson	Grafton
2004	Fargo	Rick Gillund	Enderlin	1962	Williston	Glenn Berg	Minot
2003	Minot	Mike Schneider	Bismarck	1961	Jamestown	Richard Fuller	West Fargo
2002	Bismarck	Pat Denne	West Fargo	1960	Bismarck	Frank Orthmeyer	Grand Forks
2001	Fargo	Charles Jaskowiak	Bismarck	1959	Grand Forks	Herbert Arnold	Williston
2000	Dickinson	Randal Loeslie	Thompson	1958	Dickinson	L.W. Veigel	Dickinson
1999	Minot	Paul Lacina	Valley City	1957	Fargo	Erik Peterson	Jamestown
1998	Bismarck	Mel Bullinger	Bismarck	1956	Mandan	Edwin Ostlie	Grand Forks
1997	Fargo	Wayne Tunseth	Mayville	1955	Williston	Paul Hays	Minot
1996	Minot	Don Olafson	Valley City	1954	Grand Forks	C.M. Hagen	Oakes
1995	Bismarck	Waide Kritsky	Jamestown	1953	Minot	C.T. Stephenson	Jamestown
1994	Fargo	Byron Thronson	Minot	1952	Jamestown	Ed Booth	Bismarck
1993	Minot	Joe Manning	Fargo	1951	Fargo	H.H. Behlmer	Fargo
1992	Bismarck	Tom Little	Mandan	1950	Bismarck	A.F. Hulteng	Grand Forks
1991	Fargo	Richard Wanner	Bismarck	1949	Dickinson	George Toman	Mandan
1990	Williston	Richard Resell	Williston	1948	Minot	R.J. Lockner	Cooperstown
1989	Minot	Dwight Wurzbacher	Grand Forks	1947	Grand Forks	John Kleven	Grand Forks
1988	Grand Forks	Phil Furaus	Harvey	1946	Mandan	S.K. Svenkeson	Minot
1987	Dickinson	Dale Hanson	Valley City	1945	Fargo	F.W. Pinney	Fargo
1986	Bismarck	Dan Boyce	Grand Forks	1944	Bismarck	Dave MacDonald	Bismarck
1985	Fargo	Lyle Weeks	Minot	1943	Grand Forks	Joe Morrissey	Jamestown
1984	Williston	Kenneth Reynolds	Bismarck	1942	Williston	Elmer Pearson	Minot
1983	Minot	Dale Townsend	Carrington	1941	Jamestown	R.M. Jenson	Grand Forks
1982	Mandan	Peter Bilstad	Fargo	1940	Wahpeton	William Nordley	Edgeley
1981	Jamestown	Don Cuskelly	Dickinson	1939	Dickinson	William Yegen	Bismarck
1980	Grand Forks	Don Erikson	Waford City	1938	Minot	S.S. Calvelage	Jamestown
1979	Bismarck	Ken Skuza	Fargo	1937	Mandan	Ora Ayliffe	Fargo
1978	Dickinson	Gerald Zander	Mandan	1936	Fargo	S.P. Ravnos	Mandan
1977	Fargo	Keith Cornell	Grand Forks	1935	Grand Forks	H.T. Hintgen	Wahpeton
1976	Minot	Peter Mellmer	Bismarck	1934	Bismarck	W.H. Robinson	Williston
1975	Mandan	Lyle Mitzel	Wahpeton	1933	Jamestown	O.N. Bergman	Valley City
1974	Grand Forks	Daniel Reiter	Minot	1932	Minot	E.L. Lium	Grand Forks
1973	Jamestown	Russell Kain	Neche	1931	Fargo	W.P. Tarbell	Fargo
1972	Williston	John Muus	Grand Forks	1930	Grand Forks	E.J. Thomas	Minot
1971	Fargo	Donald Wenaas	Jamestown	1929	Bismarck	A.L. Bavone	Bismarck
1970	Minot	Harry Hanson	Bismarck				
1969	Bismarck	Clarence Johnson	Garrison				

AWWA Basic and Advanced Management Institutes Scheduled

The five-day Basic AWWA Water Utility Management Institute will be presented in Salt Lake City, Utah, September 13-17, 2010. All sessions are held at the Comfort Suites Hotel (3 miles from the airport and downtown Salt Lake City) for AWWA members and water department personnel nationwide. This class brings together water company personnel from every region of the country (and Canada as well) in an atmosphere of learning and sharing important leadership principles. This affordable, top-notch training teaches practical, "real world" supervisory and management skills needed to be effective in today's workplace.

The schedule is as follows:

- Day 1 - Foundations of Leadership
- Day 2 - The Leader's Role in Performance Management
- Day 3 - Managing Conflict
- Day 4 - Employee Selection
- Day 5 - The Leadership of Change

The Institute registration fee is \$499.00.

An Advanced AWWA Water Utility Management Institute is scheduled at the same location the week of October 18 - 22, 2010.

That schedule is as follows:

- Day 1 - Assessment Of Leadership Vision, Values and Strategy
- Day 2 - Teambuilding
- Day 3 - Decision Making
- Day 4 - Transformational Leadership and Vision Alignment
- Day 5 - Critical Thinking Skills For Problem Resolution and Innovation

The Advanced Institute registration fee is \$499.00.

Optional certification from Utah State University will be available for \$50.00 extra to members needing to meet training requirements for professional affiliations. To obtain the Basic Institute and/or Advanced Institute schedule and registration information, call Chuck Christensen at (801) 281-0107, or email him at chuckets@msn.com.

Darin Eugene Billing



Darin Eugene Billing, 43, passed away July 12, 2010, at his home in Bismarck. Services were held Monday, July 19, at Bismarck Funeral Home.

Darin was born June 1, 1967, to Eugene and Jolene Billing of Beltrami, Minn. He graduated from Fertile-Beltrami High School in 1985. He was baptized and confirmed at Trinity

Lutheran Church, Beltrami. He worked on the family farm until 1991 and graduated from North Dakota State University with a degree in agricultural engineering. He worked for the North Dakota State Health Department as an environmental engineer from June 1991 until the time of his death.

Many municipal operators knew Darin as an inspector or as the advanced math instructor at operator training. His duties at the Health Department also included providing technical support, assisting with the planning for the North Dakota Water and Pollution Control Conference, and assisting with the *Official Bulletin*. He was especially recognized for his computer knowledge, technical expertise and helping with building maintenance at the Environmental Training Center. If there was

a problem with any of the audio visual equipment, Darin was the guy to call. Darin always had a ready smile and a willing attitude.

He married Shelly (Holden) on Aug. 3, 1996, in Rapid City, S.D. They had one beautiful daughter together, Taylor Mischele, born Feb. 12, 1998. Darin was an avid fan of NASCAR and loved antique airplanes, camping and spending time with his family and friends.

He is survived by his loving wife, Shelly and daughter, Taylor; mother, Jolene; sister, Tammy (Dean) Smith; grandparents, Alfred and Adelia Ehlert; mother-in-law, Myrna Holden; sister-in-law, Lisa (Rod) Becker; brother-in-law, Todd (Cristie) Holden; his nephew and nieces, Mariah and Austin Smith, Sydney Becker and Destinie Whitmire; and will be missed by all.

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Minutes of the Statewide North Dakota Water/Wastewater Agency Response Network

May 25, 2010

A statewide meeting of North Dakota Water/Wastewater Agency Response Network (ND WARN) was held May 25, 2010 at the North Dakota Department of Health located at 918 East Divide Avenue in Bismarck, N.D. The meeting was held in the downstairs video conference room. Video conferencing calls were made to sites located in the cities of Fargo, McVillage and the North Dakota Department of Emergency Services, Bismarck. In attendance at these sites were statewide committee members: State-Chair Skip Rapp, city of Dickinson and Secretary Hazel Sletten, city of Grand Forks. Vice-Chair Joe LaFave was absent. Members: Alice Perarski, City of Montpelier; Mary Massad, Southwest Water Authority; Steve Ellefson and Greg Larson, South Central Regional Water District; and several people from the city of McVillage. Associate members: Eric Volk, Melody Kruckenburg, ND Rural Water Systems Association; Glen Lueck, Midwest Assistance Program; Ken Jarolimek, ND Department of Emergency Services; Greg Wavra, ND Department of Health. Visiting participants: Sean Fredricks, Legal Council Cass Rural Water Users; Steve Spilde, Executive Director of the North Dakota Insurance Reserve Fund.

The meeting was called to order at 1:30 p.m. by Skip Rapp, and introductions were made. Hazel Sletten made a motion to accept the agenda, Glen Lueck seconded.

Secretary's Report

Hazel Sletten presented a summary of the February 19, 2010 meeting. It was noted that the minutes will be published in the upcoming *Official Bulletin*.

Old Business

1. Website Development - Website is 97 percent complete and can be viewed at ndwarn.org. Greg Wavra encouraged everyone who needs login information to contact him at 328-5224. You can also e-mail Greg at gwavra@nd.gov. If you already have the login information, please begin populating the site with resources.
2. Resource Typing by Agreement Holders - This has now been linked to the website. All members are encouraged to work with the site and follow the guidelines for inputting emergency resources.
3. NIMS/ICS Employee Training - Classes to be offered this fall are NIMS 300 (2 ½ days) and 400 (1 ½ days). Prerequisites for attending these classes are NIMS 100 and 200 and are available on-line if you need to take them. Ken Jarolimek will provide Greg Wavra with the dates and locations, and Bob Disney will post them on the ND WARN website.
4. Accessing WARN During Emergencies - Eric Volk reported that he had asked Cal WARN representative Ray Riordan how the ND WARN program was doing

when he was in Fargo during the ND WARN Table Top exercise. Ray responded that ND WARN was right on track. The power point slides used during the exercise for accessing WARN will be posted to the ND WARN website.

5. Utility Development of Emergency Response Plans (ERPs) – Skip Rapp encouraged everyone to keep working on their ERPs. Resources for developing them can be found on the ND WARN website.
6. ND Non-Profit Corporation Article of Incorporation – A federal 501-c(3) tax exempt status is being perused. Greg Wavra has the paperwork in his office.
7. EPA Security/Preparedness Grant – Greg Wavra reported that this funding resource is no longer available at this time. ND WARN will continue to look for new sources of money.
8. Table Top Exercise Planning Provided by EPA – See attached file.
9. EMAC Coordination - Greg Wavra and Skip Rapp will be participating in a webcast coming up in July entitled, “Reimbursement for Resource Typing.”
10. Water Security Congress – This has been rescheduled for September 22 in Washington, D.C. due to the ongoing flood recovery efforts at the original location of Nashville, Tennessee. US EPA will be providing funds for air travel and accommodations for this meeting .

New Business

1. Mutual Aid Agreement Revision - Revision to Articles II (Period of Assistance), III (Membership and Officers), IX (Indemnification) and XV (Modification) of the Mutual Aid Agreement were discussed.

Article II

Steve Spilde, Executive Director of the North Dakota Insurance Reserve Fund also spoke to the designation of Period of Assistance being “portal to portal.” The designation that all WARN members are insured through the North Dakota Insurance Reserve Fund (NDRIF) does not apply to private utilities and that 100 percent of all public utilities are not insured through the NDRIF, making seamless insurance coverage questionable. It was suggested that ND WARN look at language from 2005-2007 legislative action referencing 37-17.1.25 (interstate mutual aid) as it did a good job of defining responsible parties.

Article III

With the start of the ND WARN website, there became a need to raise funds and pay bills that are associated with the program. ND Rural Water Systems

Association has assisted in providing a treasurer role to handle these funds. The ND WARN agreement needs to reflect the addition of the treasurer's position with language such as "the Treasurer shall be an individual or entity designated by the members." This was suggested as a means of coordinating banking requirements as the position changes and for having an internal audit system should future grants be awarded to the ND WARN program.

Article IX

Sean Fredricks, representing Cass Rural Water Users, brought up the need to review the language on indemnification as it is currently in conflict with state law adopted after the Mutual Aid Agreement was finalized. Article IX is in conflict with Statute 32-12.2-13 of the ND Century Code which states that political subdivisions (e.g., WARN members) only have those authorities provided by statute. This was passed during the last legislative session. Discussion on this issue noted that legislative action giving the ND WARN program specific statutory authority under Chapter 37-17.1 (Emergency Services) may be one way to permit political subdivisions to accept these indemnity obligations. Other discussion on this matter was to strike out the indemnification section and have members re-sign the agreement. Ken Jarolimek commented that the ND Department of Emergency Services and other state agencies were facing the same issues regarding indemnification and that this issue needs to be looked into further.

Two courses of action were suggested for Article IX:
 A) Delete the indemnification points A, B and C and replace with a reference to state law.
 B) Delete the indemnification points A, B and C and pursue legislative action during the next legislative session as discussed above.

Article XV

The Mutual Aid Agreement currently requires agreement of all members (29 at this time) to make any modifications. A suggestion was made to change this requirement to 2/3 of quorum present at the meeting with at least 30 days notice given to all members before that meeting is held.

A working group was named to propose language changes for the Mutual Aid Agreement on the above items and present back to the members as soon as possible. Members of this group will be Skip Rapp, Greg Wavra, Mary Massad, Hazel Sletten and Eric Volk. It was agreed that they will meet at 11:00 a.m. on Tuesday, June 1st in Bismarck.

2. Miscellaneous issues - Information was exchanged on participating in future meetings of county auditors. July 14 in Center, N.D. is their annual meeting. The Oliver County auditor is in charge of the program for this event. Greg Wavra will contact her to see if we can get someone on their agenda. Hazel Sletten will look into meetings with municipal auditors.

Skip Rapp suggested we think about expenses ND WARN is incurring and how we may fund them in the future. Greg Wavra cautioned that ND WARN has been promoted as a no-cost program and encouraged donations rather than dues or membership fees. Eric Volk extended a thank you to Sean Fredricks for his help and comments on the indemnification issue of the Mutual Aid Agreement.

A motion was made by Greg Larson to adjourn, Mary Massad seconded. Motion passed.



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- **State or Provincial Agencies**—Number of rostered members and annual dues for the group would be determined using the "Population Served" row representing 10% of total state population. (Please also mark applicable category and provide names and contact information for all those who should be included on the group roster.)
- **County Agencies**—Number of rostered members and annual dues for the group would be determined using the "Population Served" row representing 50% of total county population. (Please also mark applicable category and provide names and contact information for all those who should be included on the group roster.)
- **Special Districts**—Number of rostered members and annual dues for the Group would be determined using the "Population Served" row representing 20% of total district population. (Please also mark applicable category and provide names and contact information for all those who should be included on the group roster.)
- **All others**—Refer to row representing total population served by the agency. (Mark the category representing total population served by the agency and provide names and contact information for all those who should be included on the group roster.)

Population Served	Number of Rostered Members Covered*	Annual Dues (\$US)	Annual Dues (\$CN)
<input type="checkbox"/> 0 – 10,000	2	\$ 232	\$ 250
<input type="checkbox"/> 10,001 – 25,000	4	\$ 464	\$ 500
<input type="checkbox"/> 25,001 – 50,000	6	\$ 696	\$ 750
<input type="checkbox"/> 50,001 – 100,000	10	\$1160	\$1250
<input type="checkbox"/> 100,001 – 300,000	16	\$1856	\$2000
<input type="checkbox"/> 300,001 – 500,000	20	\$2320	\$2500
<input type="checkbox"/> 500,001 – 1,000,000	26	\$3016	\$3250
<input type="checkbox"/> More than 1,000,000	30	\$3480	\$3750
<input type="checkbox"/> Federal Agency	50	\$5800	\$6250

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<input type="checkbox"/> Heritage	2	\$ 351	\$ 378
<input type="checkbox"/> Prestige	10	\$1445	\$1557
<input type="checkbox"/> Crown	40	\$6967	\$7506

*You may designate additional members for \$116 US (\$125 CN) each.

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Questions? Contact a membership specialist at 800-848-APWA or membership@apwa.net.

APWA Headquarters: 2345 Grand Blvd, Suite 700, Kansas City, MO 64108-2625

APWA North Dakota Chapter Executive Committee Meeting Minutes

May 26, 2010

Call to Order: President Darin Schaeffer called the meeting to order.

Roll Call:

Present were: Rusten Roteliuk, Chuck Abel, Darin Schaeffer, Shawn Soehren, Chad Zander, Lance Meyer, Dan Jonasson and Rick Gillund.

Minutes: Motion: Shawn Soehren - to approve the minutes from the February meeting. Second: Rick Gillund
Motion carried unanimously.

Treasurer's Report:

Motion: Chad Zander – to approve the treasurer's report.
Second: Lance Meyer. Motion carried unanimously.

Delegate Report: Rusten Roteliuk reported that he is looking at attending the next delegate's meeting.

Committee Reports: Diversity – Rusten will also try to attend this committee at the next meeting.

Old Business: North Dakota Water and Pollution Control Conference Sessions – Several possible sessions were discussed: GIS presentations, fly ash performance in concrete, pavement maintenance/crack filling, storm water management, work force issues because of oil impact, slurry/micro surfacing. Members will make contacts and get

information back to Darin Billing and Mike Brisben by the week of June 4, 2010.

Drinking Water Week – May 2-8, 2010 – this was advertised in the four major newspapers.

National Public Works Week – May 16-22, 2010
– Proclamation was signed by the governor and the picture with the governor will be published in the next *Official Bulletin*.

Keep North Dakota Clean - Request for Monetary Support – this was denied.

New Business: Project of the Year Awards – Chuck Abel suggested that the awards be given out at the banquet Wednesday night instead of at the NDAPWA – chapter lunch. Chuck will contact Mike and set this up.

Projects of the Year were as follows:

Cities < 5,000 population: Cavalier N.D. Lift Station Improvements – city of Cavalier, Owner – AE2S, Engineer.

Cities > 5,000 population: NAWS High Service Pump Station – City of Minot and State Water Commission, Owner – Houston Engineering, Engineer.

Criteria used in the selection process include: good construction techniques, safety, community relations, protecting the environment, unusual accomplishments.

ND WARN - ndwarn.org – A thank-you letter was received for the donation to help fund their website.

Nomination of 2011 Executive Committee by Past President for the Fall nominations. Requests were received asking that Jeff Heintz, city of Bismarck, be considered for delegate or director position and Terry Boehm, KLJ, be considered for director position.

Adjourn: Motion: Shawn Soehren – moved to adjourn.

Second: Lance Meyer. Motion carried unanimously.

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Comparison of Current Total Coliform Rule Requirements to the Proposed Revised Total Coliform Rule

By Larry Thelen, North Dakota Department of Health

The Environmental Protection Agency (EPA) is proposing revisions to the 1989 Total Coliform Rule (TCR). According to EPA, the proposed Revised Total Coliform Rule (RTCR) maintains and strengthens the objectives of the 1989 TCR. The rule objectives are: (1) to evaluate the effectiveness of treatment, (2) to determine the integrity of the distribution system, and (3) to signal the possible presence of fecal contamination. EPA indicated the proposed revisions better address these objectives

by requiring systems that may be vulnerable to fecal contamination (as indicated by their monitoring results) to do an assessment, to identify whether any sanitary defects are present, and to correct the defects. Therefore, EPA anticipates greater public health protection under the proposed RTCR (compared to the 1989 TCR) because of its more preventive approach to identifying and fixing problems that affect or may affect public health. The following table gives an overview of the key provisions of the proposed RTCR.

Element	Current TCR	Proposed RTCR
Rule construct	<ul style="list-style-type: none"> • Total coliform (TC) monthly maximum contaminant level (MCL) based on the number of TC positive (+) samples in a month • Fecal coliform(FC)/<i>E. coli</i> (EC) acute MCL based on FC/EC+ samples • Public Notification (PN) required for MCL violations 	<ul style="list-style-type: none"> • The proposed RTCR sets an <i>E. coli</i> (EC) maximum contaminant level goal (MCLG) of zero and an EC maximum contaminant level (MCL) and a coliform treatment technique (TT) based on total coliform (TC) and/or EC monitoring results. • Compliance is based on the presence or absence of TC and EC and is determined each calendar month the public water system (PWS) serves water to the public (or each calendar month that sampling occurs for systems on reduced monitoring). See sections on “Assessment” and “Violations and Public Notification (PN)” in this table for conditions when the coliform TT and EC MCL are violated. • Assessment and corrective action (if necessary) are required if PWS has a coliform TT trigger. See sections on “Assessment” and “Corrective Action” in this table.
Transition from the 1989 TRC to the RTCR	N/A	<ul style="list-style-type: none"> • PWSs continue on their existing TCR monitoring schedule when the RTCR is effective. • Ground water (GW) systems serving 1,000 or fewer persons remain on their TCR schedule unless or until the conditions occur as described below or unless otherwise directed by the state. <ul style="list-style-type: none"> • Non-community water systems (NCWSs) on quarterly/annual monitoring remain on that schedule unless/until they have an event that triggers increased monitoring. See the section on “Increased Monitoring (NCWS)” in this table. • Community water systems (CWSs) on reduced monitoring remain on that schedule unless/until they have an event that triggers them to go to routine monitoring. See the section on “Return to Routine Monitoring (CWS)” in this table. • Monitoring schedules will be evaluated during the “special monitoring evaluation” conducted by the state as part of the periodic sanitary survey.

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<p>Routine Monitoring</p>	<ul style="list-style-type: none"> • 1 sample per quarter for NCWS <1,000 people served by ground water (GW). • 1 sample per month for NCWS <1,000 people (SW) and all CWS <1,000 • For all PWS >1,000 sampling is monthly based on population • Provisions for reduced monitoring for all GW PWS <1,000 people 	<ul style="list-style-type: none"> • Total coliform samples must be collected at sites which are representative of water quality throughout the distribution system according to a written sample siting plan subject to State review and revision. • Samples must be collected at regular time intervals throughout the month except some small systems may collect them on the same day. • The number of monthly samples is based on population served. Reduced monitoring is available for some small GW systems that meet certain criteria. See the section on “Reduced Monitoring” in this table. • Systems on less than monthly monitoring may be triggered to increase their monitoring if certain conditions occur. See the sections on “Increased Monitoring (NCWS)” and “Return to Routine Monitoring (CWS)” in this table. • Each total coliform-positive routine sample must be tested for the presence of <i>E. coli</i> and three repeat samples must be taken. • Monitoring provisions are included for seasonal systems, which require them to monitor monthly, have a sample siting plan, and to demonstrate State-approved startup procedure. Reduced monitoring may be available for some small seasonal GW systems that meet certain criteria. See the section on “Reduced Monitoring” in this table.
<p>Reduced Monitoring</p>	<ul style="list-style-type: none"> • NCWS <1,000 people (GW) can reduce to 1 sample per year if system is free of sanitary defects • CWS <1,000 people (GW) can reduce to 1 sample per quarter if no history of TC contamination, no sanitary defects, and protected GW source • No other systems are eligible for reduced monitoring 	<ul style="list-style-type: none"> • NCWSs serving 1,000 or fewer people (GW) – can be eligible to reduce their routine monitoring of 1 sample per quarter (i.e., quarterly) to no less than 1 sample per year (i.e., annual) if they meet the following criteria: <ul style="list-style-type: none"> • Most recent sanitary survey shows that system is free of sanitary defects, has a protected water source, and meets approved construction standards; • Clean compliance history for a minimum of 12 months; • An annual site visit by the State (or a Level 2 assessment by party approved by State) within the last 12 months and correction of all identified sanitary defects. System must have an annual site visit (or its equivalent) every year thereafter to remain on annual monitoring. • Seasonal systems serving 1,000 or fewer people (GW) can be eligible for reduced monitoring by having an approved sample site plan that designates the time period for monitoring based on demand and vulnerability. • For quarterly monitoring the seasonal system must also have a sanitary survey or site visit or Level 2 assessment within last 12 months; a protected water source; a clean compliance history for a minimum of 12 months, and be free of sanitary defects. <ul style="list-style-type: none"> • To reduce to 1 sample per year, the seasonal system must meet the criteria specified above for quarterly monitoring and have in place or adopt one or more additional enhancements to barriers to contamination (cross connection control, certified operator, meet disinfection criteria, maintenance of at least 4-log removal or inactivation of viruses, other equivalent enhancements).

(Continued on next page)

Element	Current TCR	Proposed RTCR
Reduced Monitoring (Continued)		<ul style="list-style-type: none"> • CWSs serving 1,000 or fewer people (GW) – may reduce their routine monitoring (1 sample per month) to 1 sample per quarter if it meets the following criteria: <ul style="list-style-type: none"> • Operator is state certified. • Most recent sanitary survey shows that system is free of sanitary defects (or has an approved plan and schedule to correct them), has a protected water source, and meets approved construction standards. • Compliance history is clean for a minimum of 12 months. • System meets at least one of the following criteria: annual site visit by the state or a voluntary Level 2 assessment by a party approved by the state and correction of all identified sanitary defects (or an approved plan schedule to correct them); cross connection control; meet disinfection criteria; maintenance of at least 4-log removal or inactivation of viruses; other equivalent enhancements to water systems as approved by the state. • No other systems are eligible for reduced monitoring.
Increased Monitoring (NCWSs)	<ul style="list-style-type: none"> • N/A (none specified) 	<ul style="list-style-type: none"> • NCWSs serving 1,000 or fewer people (GW), including seasonal systems, increase from quarterly or annual monitoring to monthly monitoring if one of the following occurs: <ul style="list-style-type: none"> • triggered Level 2 assessment or a 2nd Level 1 assessment in 12 months • EC MCL violation • coliform TT violation • two monitoring violations within 12 months if on quarterly monitoring or one monitoring violation if on annual monitoring
Return to Routine Monitoring (CWSs)	<ul style="list-style-type: none"> • N/A (none specified) 	<ul style="list-style-type: none"> • CWSs serving 1,000 or fewer people (GW) on quarterly monitoring return to monthly monitoring based on same criteria above for NCWSs serving 1,000 or fewer people (GW).
Return to Reduced Monitoring (NCWSs) (after being triggered to increased monitoring)	<ul style="list-style-type: none"> • N/A (none specified) 	<ul style="list-style-type: none"> • NCWSs serving 1,000 or fewer people (GW) must meet the following criteria to return to routine quarterly monitoring after being triggered to increased monitoring: <ul style="list-style-type: none"> • Within the last 12 months, system must have completed a sanitary survey or a site visit by the state or a voluntary Level 2 assessment by a party approved by the state, must be free of sanitary defects, and must have a protected water source. • Compliance history is clean for a minimum of 12 months. • NCWSs serving 1,000 or fewer people (GW) must meet the following criteria to return to reduced annual monitoring in addition to meeting the criteria for returning to routine quarterly monitoring: <ul style="list-style-type: none"> • an annual site visit by the state or a voluntary Level 2 assessment and correction of all identified sanitary defects <p style="text-align: right;"><i>(Continued on next page)</i></p>

Return to Reduced Monitoring (NCWSs) (after being triggered to increased monitoring) (Continued)		<ul style="list-style-type: none"> • adoption of one or more additional enhancements to the water system barriers to contamination (cross connection control, certified operator, meet disinfection criteria, maintenance of at least 4-log removal or inactivation of viruses, other equivalent enhancements)
Return to Reduced Monitoring (CWSs) (after being triggered to increased monitoring)	<ul style="list-style-type: none"> • N/A (none specified) 	<ul style="list-style-type: none"> • CWSs serving 1,000 or fewer people (GW) must meet the same criteria for qualifying for reduced quarterly monitoring. See section on “Reduced Monitoring” for CWSs serving 1,000 or fewer people (GW) in this table.
Repeat Monitoring	<ul style="list-style-type: none"> • PWSs serving <1,000 must take 4 repeat samples for every TC+ sample • For GW PWSs, 1 sample can be a source water sample to comply with the GWR. 	<ul style="list-style-type: none"> • All PWSs must take three (3) repeat samples after a TC+ sample at locations specified in the sample siting plan. • For GW PWSs serving 1,000 people or fewer, a single sample can meet both the triggered source water requirements of the GWR and the repeat sample requirements of the proposed RTCR, but only if the state approves the use of the single sample to meet both rule requirements and the use of EC as the fecal indicator. Otherwise, the system must take an additional source sample to comply with the GWR.
Additional Routine Monitoring	<ul style="list-style-type: none"> • PWSs taking <5 routine samples per month must take at least 5 routine samples after a monthly TC+ sample 	<ul style="list-style-type: none"> • A PWS taking routine samples less than monthly is required to take a minimum of three (3) routine samples the following month it serves water to the public after a TC+ sample, unless the state waives the requirement.
Assessment	<ul style="list-style-type: none"> • N/A none required in the current TCR 	<ul style="list-style-type: none"> • The PWS must conduct a Level 1 assessment if it exceeds any of the following triggers: <ul style="list-style-type: none"> • For systems taking ≥ 40 samples per month, the PWS exceeds 5.0% TC+ samples for the month; or • For systems taking < 40 samples per month, the PWS has ≥ 2 TC+ samples for the month; or • The PWS fails to take every required repeat sample after any single routine TC+ sample. • The PWS must ensure that a Level 2 assessment is conducted either by the state or a state-approved party (which could include a qualified PWS employee(s)) if it exceeds any of the following triggers: <ul style="list-style-type: none"> • The PWS has an <i>E. coli</i> MCL violation. • The PWS has a second Level 1 trigger within a rolling 12-month period, or in two consecutive years for systems on annual monitoring. • The system must complete the assessment as soon as practical after failure to take a repeat sample or after notification of results (i.e., after it determines that an assessment trigger has been exceeded). • Assessment results and description of corrective action(s) taken will be submitted to the state within 30 days after determination of exceeding the trigger. The state must determine if the assessment is sufficient whether or not a sanitary defect is found.

(Continued on next page)

Element	Current TCR	Proposed RTCR
Corrective Action	<ul style="list-style-type: none"> N/A none required in the current TCR 	<ul style="list-style-type: none"> System must correct all sanitary defects found in the assessment. For corrections not completed by the time the assessment form is submitted, the systems must be in compliance with a state-determined schedule and must notify the state when completed.
Violations and Public Notification (PN)	<ul style="list-style-type: none"> Violation of EC/FC MCL-acute violation, Tier 1 PN Violation of monthly TC MCL- Tier 2 PN M & R violation - Tier 3 PN PWS must notify state regarding a single EC/FC(+) result 	<ul style="list-style-type: none"> EC MCL violation – when any of the following occurs; requires Tier 1 PN. <ul style="list-style-type: none"> EC+ repeat sample following a TC+ routine sample TC+ repeat sample following an EC+ routine sample failure to take all required repeat samples following an EC+ routine sample failure to test for EC when any repeat sample is TC+ Coliform TT violation – occurs when a PWS fails to conduct required assessment and/or corrective action; requires Tier 2 PN. Monitoring violation – occurs when PWS fails to take every required routine or additional routine sample in a compliance period or fails to analyze for EC following a TC+ routine sample; requires Tier 3 PN. Reporting violation – occurs when a PWS fails to submit a monitoring report or completed assessment form after a system properly conducts monitoring or assessment; requires Tier 3 PN.

This chart is based on the draft requirements of the proposed RTCR. Between now and when the rule is finalized, the requirements may change depending on the comments EPA receives on the proposed rule during the comment period. Accordingly, EPA will make the necessary changes to the final rule. A complete copy of the proposed rule is available for download at www.epa.gov/safewater/disinfection/tcr/.

Comments on the proposed rule must be submitted on or before October 13, 2010. Comments can be submitted to EPA by one of the following methods: email at www.regulations.gov and follow the on-line instructions; or by mail to the following address: Water Docket, Environmental Protection Agency, Mailcode: 4101T, 1200 Pennsylvania Ave., NW, Washington, DD 20460, Attention: Docket ID No. EPA-HQ-OW-2008-0878.



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Correction: In the Spring 2010 (vol. 96, nos. 1-6) issue of the *Official Bulletin*, there was an error on page 2 in the article titled, “Total Trihalomethanes Sample Results for System Using Lake Sakakawea or Missouri River Water.” In the

notes section, System 11 should read: Low flows in river during spring 2009, impacted TTHM sample. Taking four samples per quarter since September 2009.



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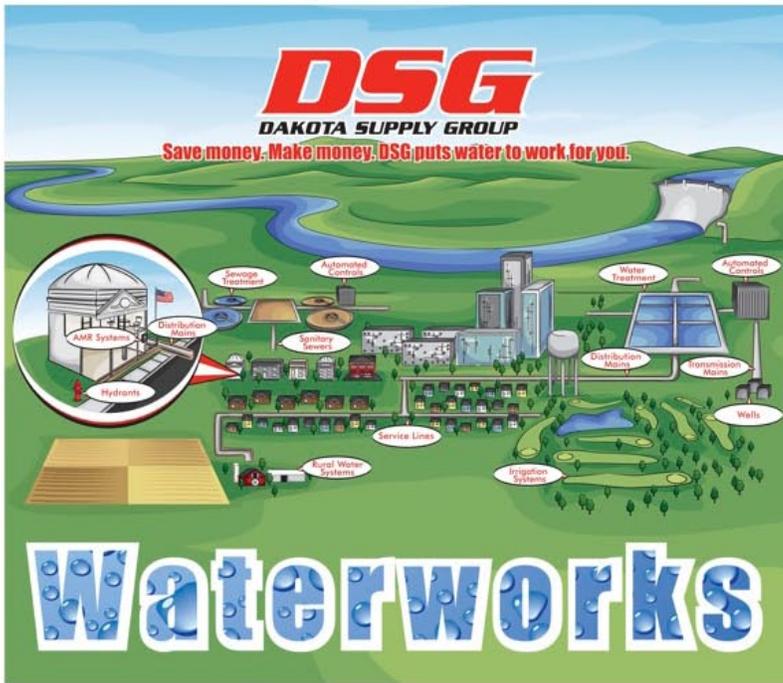


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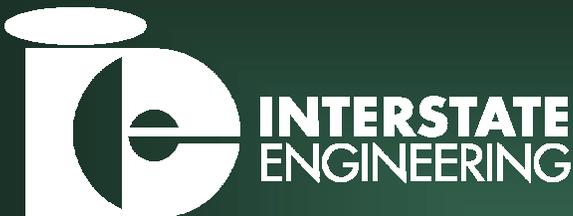
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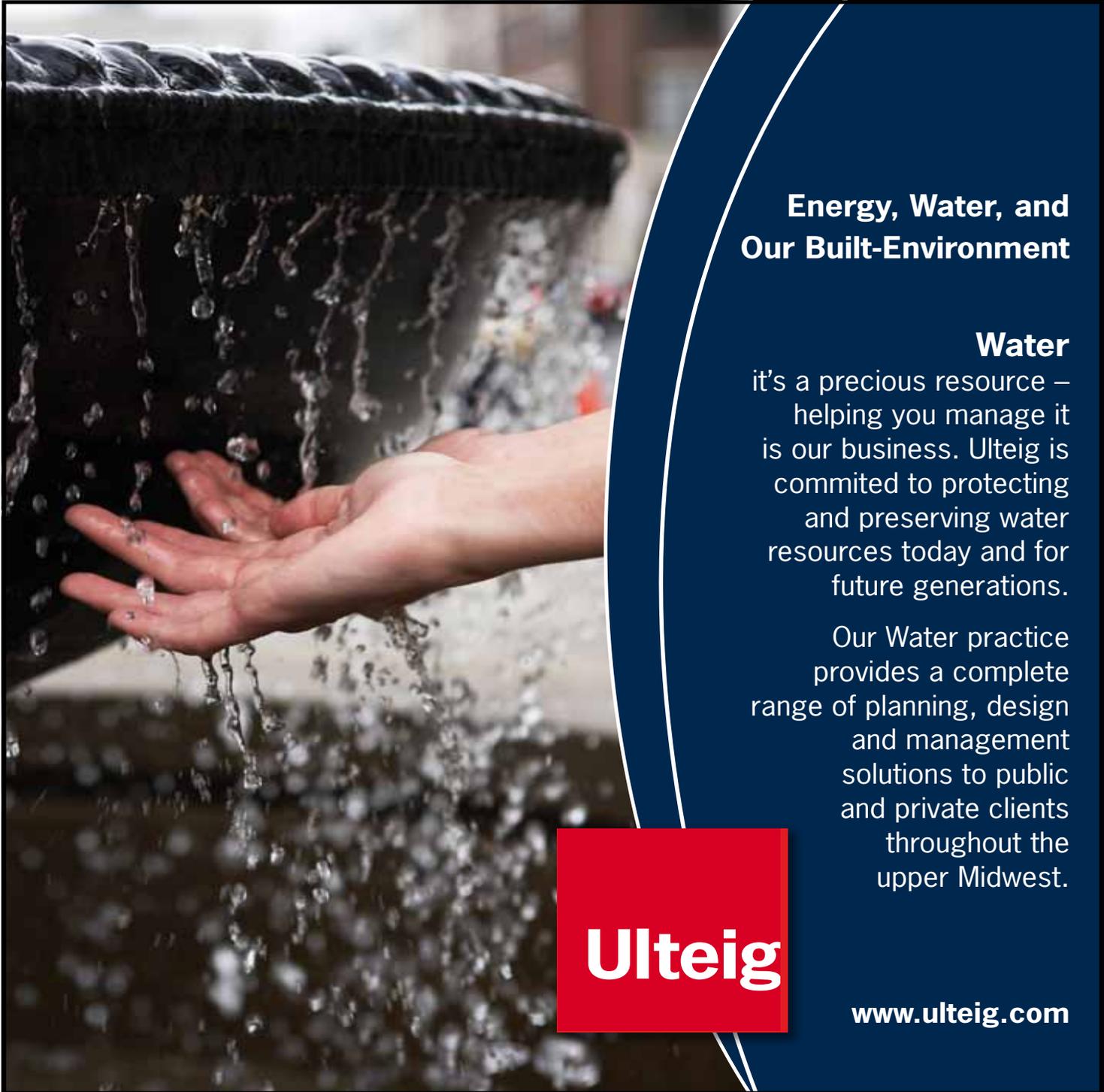
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