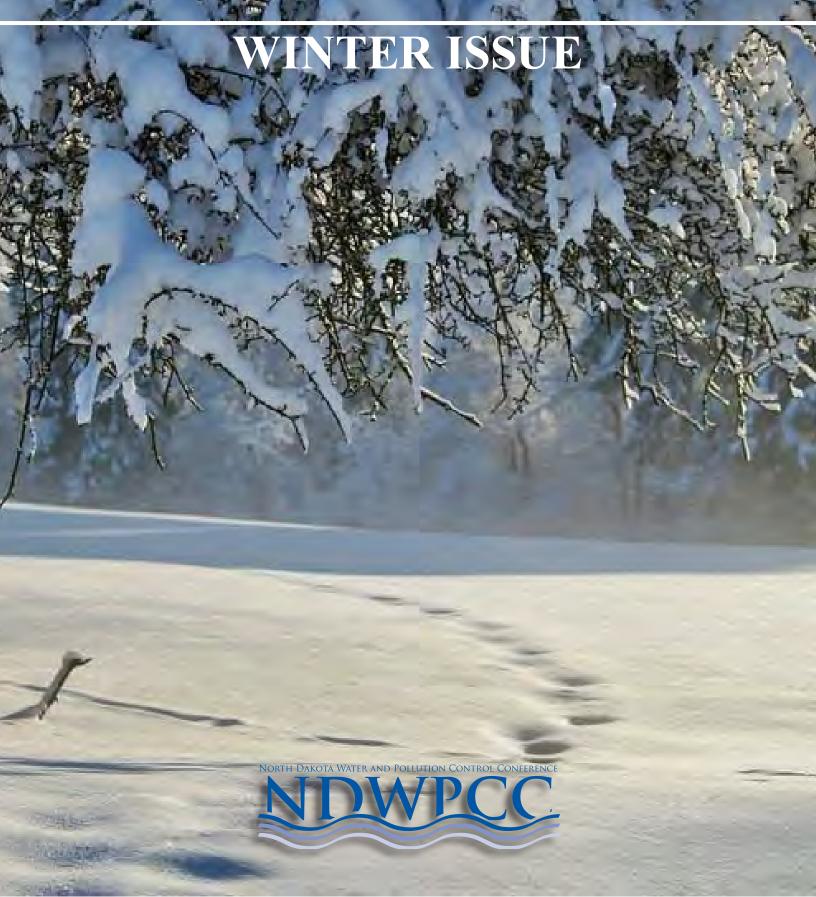
ORICIAI BUILLIN

VOLUME 107

OCTOBER - DECEMBER 2019

NUMBERS 10-12



If you set the bar at competence,

how do you reach excellence?



Editor

Jake Schafer

Business Manager

Laura Lee

Contributing Authors

Drinking Water Program Staff
NDWPCC Officers
AWWA Officers

OFFICIAL BULLETIN

Official Publication of the
North Dakota Water and Pollution Control Conference

Winter Issue

Established 1935

VOL. 107

DACE

October-December 2019

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If you are interesting in submitting articles please contact the editor, Jake Schafer at jrschafer@nd.gov.

INDEX TO ADVERTISERS

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FIRM	PAGE
Ackerman Estvold	12, Inside Back Cover
AE,S	22, 34
Apex Engineering	Inside Cover, 33
Backflow Prevention Services	26
Bartlett & West	10
Bolton & Menk	17, 21
Dakota Pump & Control	11, 33
Electric Pump	25
Ess Brothers & Sons, Inc	
Ford Meter Box	
Hawkins Water Treatment Group	23, 34
Houston Engineering	4, 27
Moore Engineering	
MVTL	9, 36
NDLTAP	15
ND Rural Water Systems	27
ND Sewage Pump & Lift Station Service	5, 12
SEH	2, 36
Treatment Resources	25
Visu-Sewer	10
Widseth Smith Nolting	Back Cover
Wold Engineering	29

TABLE OF CONTENTS

SUBJECT	PAGE
NDWPCC Joint Board Meeting Minutes	6
2019 Operator of the Year Awards	12
Operator of the Year Awards History	13
91st Annual NDWPCC	16
NDSU Wins 2019 Environmental Challenge	24
2019 NDWPCC Attendance	
Water For People Thanks You	35
Operators Pass Exams	36
What Makes a Utility Resilient?	37
Program Directories	42

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

The objectives of this Conference shall be: the advancement of the knowledge of design, construction, operation and management of water, wastewater systems, and stormwater 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, wastewater treatment facilities and stormwater treatment; and the promotion of water, wastewater, and stormwater system operator education and certification programs.

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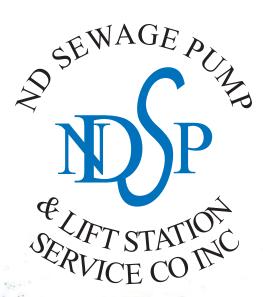
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NDWPCC JOINT BOARD OFFICERS MEETING MINUTES October 8th, 2019 Bismarck, ND

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); North Dakota Section of the American Water Works Association (NDAWWA); and the North Dakota Chapter of the American Stormwater and Erosion Control Association (NASECA-ND) was held on October 8th, 2019, in the Governor's Room of the Ramkota, Bismarck, ND. The following board members and guests were present: Mike Berg, Raj Bhattarai, David Bruschwein, Tracy Eslinger, Sarah Waldron Feld, Joe Ferguson, Bill Gefroh, Rick Gillund, Fred Goetz, Erik Gilbertson, Troy Hall, Marty Haroldson, Shawn Heinle, Jeff Hruby, Barry Johnson, Alan Kemmet, Jasper Klein, Wei Lin, Lance Meyer, Matt Moltzan, Michael Quamme, Meredith Quinn, Jake Schafer, Gabe Schell, Scott Schneider, Dean Sletten, Luci Snowden, Matt Sperry, Don Wald, Greg Wavra, Adam Zach, and Gary Zuroff.

The meeting was called to order at 9:40 a.m.by NDWPCC President Mike Berg. Copies of the meeting agenda and January 1 through October 4, 2019, financial report was provided to those in attendance.

The first order of business President Berg called for a motion to dispense with the reading of the minutes from the May 22, 2019 minutes and approve the copy mailed to all board members. Michael Quamme so moved, Tracy Eslinger seconded, and the motion carried.

Next, President Berg called for the Treasurer's Report. Shawn Heinle read the 2019 NDWPCC financial report, which showed a net gain of \$61,936.00 and total assets of \$212,404.94. President Berg asked for any discussion. Hearing none, President Berg called for a motion to approve the Treasurer's Report. Dean Sletten so moved, Scott Schneider seconded, and the motion carried.

Next, President Berg called for any old business. No old business.

President Berg called for new business. First, Mr. Berg asked for volunteers to serve on the nominating committee. Luci Snowden, Bill Gefroh, and Mike Berg volunteered. Also, the auditing committee needed three volunteers. Alan Kemmet, Scott Schneider, and Tracy Eslinger volunteered. Shawn Heinle then discussed the activities for the 2019 Conference. He indicated that conference booklet contained all the meeting times, presentation times, the golf tournament, and tour. President Berg then asked for nominations of Life Membership, there were none. Mr. Heinle also asked for presenters at the Spring trainings. The dates will be as follows:

March 2-4, 2020 March 9-11, 2020 March 23-25, 2020 March 30 – April 1, 2020 April 13-15, 2020 April 20-22, 2020

Mr. Heinle then proposed the Conference explore its own website. He indicated it would allow him to upload current agendas, meeting dates, and could be linked to the Eventbrite registration site. There was a lot of discussion that followed. Jake Schafer indicated creating a site through an online domain is relatively inexpensive. Tracy Eslinger inquired about just using the Department website. Greg Wavra said the Department sight contains a lot of information and is

not easy to navigate. Sarah Waldron Feld asked if the website could be linked to the Department's website. Bill Gefroh asked if the groups that comprise the conference would be associated with the website. Mr. Heinle indicated that would be a possibility. Tracy Eslinger said we should explore existing website to evaluate what we would want. It was decided to form a committee that will explore various website options and costs. They will present their findings at the Joint Board meeting in January. The committee volunteers include Luci Snowden, Jake Schafer, Shawn Heinle, Alan Kemmet, Tracy Eslinger, and Matt Moltzan.

Next, Jacob Schafer spoke about changes with the Official Bulletin. First, the publication dates. The Spring issue will cover January to April, with publication in May. Articles submitted no latter than April 30th. The Pre-Conference issue will cover May to August, with publication in September. Articles no latter than August 31st. The Winter issue will cover September to December, with publication in January. Articles no latter than December 31. Mr. Schafer then spoke on changes to Adobes tech support and how Adobe is switching to a cloud-based system with a monthly fee of about \$53.00/month or \$636/year. Jake said he can explore other options, and Dean Sletten said to report back on the findings in January. Tracy Eslinger looked at the Adobe cost and said it would not cost the Conference much. Dean agreed. Meredith Quinn suggested that Jake should present his opinion on what option he prefers since he is the editor and will be using the program.

Lastly, Michael Quamme proposed that a representative from each conference group, along with Mr. Heinle, comprise a committee that will review submitted presentation proposals and make presentation selections for upcoming conferences. Meredith Quinn suggested that a form be emailed, with a submittal date range and deadline. Similar to the AWWA's submittal process of March to May with a deadline of June 15. Shawn Heinle seconded. The proposal passed. Each group will present their selected representative at the January joint board meeting.

President Berg then called for a motion to adjourn. Motion made by Dean Sletten, seconded by Rick Gillund. Meeting adjourned.

The meeting adjourned at 10:45 a.m.

Respectfully submitted,

Shawn Heinle Secretary/Treasurer

SH:II

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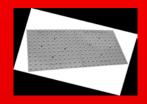
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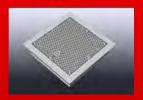
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Operator of the Year Awards

Thank you for your hard work!

The North Dakota Department of Environmental Quality, in an effort to encourage proper operation and maintenance of water and wastewater systems, instituted an annual operator awards program in 1981 at the Annual North Dakota Water and Pollution Control Conference in Jamestown. This year marks the 39th anniversary of the awards program which has honored 200 plus operators and three military units (the U.S. Army Reserve, the ND Army National Guard, and the ND Air National Guard) for outstanding service.

The awards are based on:

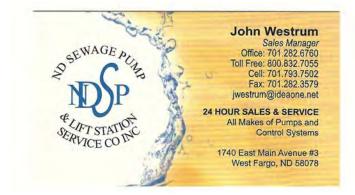
- 1. Field and inspection reports.
- 2. Compliance with state and federal regulations.
- 3. Participation in the North Dakota Operator Training and Certification Program.
- 4. Participation in the North Dakota Water and Pollution Control Conference, North Dakota Chapter of the American Public Works Association, North Dakota Water Environmental Association, the North Dakota Section of the American Water Works Association, and the North Dakota Chapter of the North American Stormwater and Erosion Control Association.

Recipients of the 2019 Operator of the Year Awards are:

James Kershaw – City of Bismarck

Jim Kershaw graduated from the Power Plant Technology course at Bismarck State College in February 1984. In March of 1984 he was hired as an operator for the City of Bismarck Water Treatment Plant. Jim was a shift operator for 29 years. He then became the Water Plant supervisor in February of 2013. Jim has been in the role of Superintendent of the Bismarck Water Treatment Plant since September of 2017. In the past few years he has tried to be as active as possible in the AWWA as a board member for the ND section, and serving on the BSC Water and Wastewater Technology Advisory Committee. Jim has also been a 30 plus year member of the Sterling ND Lion's Club and serves on the board of Directors for the Bismarck Rural Fire Department. In the past he has also competed in many different action shooting competitions. In his spare time, Jim likes to hunt, shoot, reload ammunition, cook and Bar-B-Q. Jim and his wife Lori have 3 grown children and enjoy their 4 grandchildren. Jim looks forward to helping develop the current water plant staff for the future, and he hopes to serve the City of Bismarck for at least another 10 years





Ronald Narum – City of Rutland

Ronald Narum has served as mayor of Rutland since 1972. In addition, Ron has been the City Water Works Supervisor and manages the municipal waste site, and all water and sewer needs and general building maintenance for the City. Ron has served as state softball commissioner, vice-president of the Rutland Community Development Corporation, President of the Sargent County Job Development Authority and was named Citizen of the Year in 1992 by the ND League of Cities. He worked for Melroe Company for 34 years before his retirement. He was named "City Elected Official of the Year 2008" by the ND League of Cities and he served on the League Board, representing cities under 2,500 population, for several years. Ron is president of the Sargent County Museum Historical Society. He was an active firefighter from 1965-2014 and was the past Fire Chief of the Rutland-Cayuga Rural Fire District and Secretary Treasurer of the Fire District Board. He was fundamental in establishing in the fire district. He was inducted into the ND Firefighter's Museum Hall of Fame in 2015. He serves on the Lake Agassiz Regional Development Corporation Board. Ron is Chairman of the Sargent County Weed Control Board and has served on many area boards.

Matt Routledge – City of Bismarck

Matt worked as a part-time employee for the City of Minot in the Sewer Department from 2001-2002. After moving to Bismarck, he began working full-time for the city in 2007 as a Water and Wastewater Maintenance Technician. In 2017, Matt was promoted to Water Distribution and Wastewater Collection Supervisor. Matt is a certified Grade 04 Water Distribution and Grade 04 Wastewater Collection Operator.

Past Recipients: Operator of the Year Awards

2018	Roger Kristiansen, Napoleon Dan Schaefer, All Seasons WD Donald Vetter, South Central RWD	2013	Darrell Haman, Towner Don Hartman, Wildrose Bradley Moser, Medina Dale Neubauer, Fargo	2007	Duane Golliet, Fargo Raymond Peterson, Fargo Terry Rust, West Fargo Jerome Olson, Traill Rural Water District
	Allan Weiand, Wahpeton	2012	Alan Beyries, Garrison Frank Mosser, Maddock	2006	Kelly Berentson, Westhope
2017	Kenny Bergstrom, Williston Mike Hall, Lake Metigoshe Recreation Service District		Sam Shutt, Minto Michael Tank, Medora	2000	Jerry Imhoff, Elgin Jay Haugen, Michigan
	Alice Pekarski, Montpelier Stephen Weiser, Richardton	2011	Kent Bickler, R&T Water Supply Mike Houska, Grafton	2005	Keith Olson, Harvey Bob Weninger, Harvey Ken Blilie, Kindred
2016	Dane Fuchs, New Salem Brian Harrington, Carrington		Rick Larson, Rugby William "Bill" McQuiston,		Del Kindelspire, LaMoure
	Grace Rixen-Handford, Southwest Water Authority		Williston	2004	Ron Hendrickson, Fargo Pete Bilstad, Fargo
	Jerry Tufte, Glenfield	2010	Wade Hesch, Valley City Mark Peterson, Fargo		Delvin Stemen, Burlington Mark Paddock, Burlington
2015	Kelly Jemtrud, Velva Barry Schulz, Missouri West		Donald Wald, Wahpeton Keith Winson, Maddock	2003	Rick Anderson, Central
	Water System		Tion willion, maddon	2005	Plains Water District
	John Silvenail, Lisbon Dell Widmer, Kulm	2009	Dennis Larson, Park River Ken Miskavige, Grafton Gary Neuberger, Beulah		Keith Fulsebakke, Bottineau Don Horning, Zap
2014	Clay Kruger, Riverdale Wayne Offerdahl, Fargo		Jason Sorenson, Minot	2002	Arlis Bischoff, Grafton Allan Kraft, Cavalier
	Lyle Quenzer, South Central Water District Adam Thomas, Washburn	2008	Bill Gefroh, Bismarck Steve Himmelspach, Mandan Richard Jacobson, Hazen Roy Hayes, Hazen		Doug Neibauer, South Central Regional Water District Gary Zander, Mandan

2001	Verdeen Backstrom, Minnewaukan Jerome Broz, Fairmount Jack Knudson, Jamestown Paul Lacina, Barnes Rural	City of Grand Forks Water Treatment Plant Operators and Employees Brian Borden Jason Coyle Andy Job	Opera	f Grand Forks Wastewater tors (Storm and Wastewater tments) Thomas Helle Kenneth Stevenson
	Water	Greg Batzer		Peter Aamold
		Steven Bolton		Dennis Dunn
2000	Tim Gjovig, Crosby	David Brose		Robert Fetsch
	Jim Fixen, Alexander	James Evenson		Duane Fontaine
	Ed Rekkedal, Arvilla	John Ferguson		Gary Goetz
	Reuben Grosz, Bismarck	Larry Hadland		Dennis Gunderson
1000	D. 1 1111 D. 1	Erik Johnson, Jr.		Edward Haskell
1999	Richard Wanner, Bismarck	Richard Jurgens		David Kresel
	Tom Sieg, Anamoose	Rodney Kalis		Thomas Mikelson
	Ron Kleven, Grafton	Ken Mather		Lawrence Morrison
	Bill Emerson, Minot	Robert Peterson		Carl Sherlock
1000	D	Wayne Tunseth		Richard Winkels
1998	Bill Link, Walsh Water Users	Dan Tupa	1006	D 1 G 1: 1:1
	Ross Carter, Sherwood	Craig Lacher	1996	Randy Seelig, Lisbon
	Bob French, Bismarck	Steve Kolar		Skip Rapp, Dickinson
	Terry Leingang, Riverdale	Linda Schumacher		Larry Thomas, Washburn
1007	C. CCM 1 C.1 2401	Hazel Sletten		Gary Hager, Upper Souris
1997	Staff Members of the 348th	City of Carry 1 Franks Weter		Water Users
	ermaster Detachment (Water	City of Grand Forks Water	1005	Doe d Massa Madina
	eation) United States Army	Distribution Operators	1995	Brad Moser, Medina
Reserv	ve	Ron Borden		Les Sigette, McVille
C4 - CC N	1	Darrel Danielson		Don Olafson, Valley City
	Members of the 136th	Robert Deitz		Charles Jaszkowiak, Bismarck
-	ermaster Battalion North	Perry Hart Jackie Heidrich		DISITIATER
Dakota	a Army National Guard	Michael Klemisch	1994	Gregg Christensen, Cass
Stoff N	Members of the 119th Civil	David Kratochvil	1774	Rural Water Users
	eering Squadron North Dakota	David Kratochvii Dennis Kulas		Gordon Johnson, North
	tional Guard	Shirley Litchy		Valley Water Assoc.
7111 110	tional Guard	John Scheffer		Kerry Miller, Stanton
Onerat	tors of Grand Forks-Traill	Mark Skow		Virgil Sund, Oakes
Water		Peter Stoute		viigii baila, bakes
water	Randy Loeslie	Randy Thompson	1993	Jeff Huwe, Columbus
	Mike Thompson	Dwight Wurzbacher	1,,,,	Clay Pettys, Lake Metigoshe
	Neil Breidenbach	Donald Zhorela		Recreation
	Ray Rakoczy			Service Dept.
	3			Richard Resell, Williston
Operat	tors of Agassiz Water Users			,
•	Gus Cronquist		1992	Dave Auch, Mandan
	Clark Cronquist			Joel Heitkamp, Southeast
	-			Water Users
				Michael Schneider, Jr.,
				Strasburg
				Joseph Leo Tupa, Grand
				Forks

1991	Jim Moe, Devils Lake
	Lyle Mitzel, Wahpeton
	Joe Manning, Fargo
	Howard Plum, Maddock

1990 Keith Demke, Bismarck Rick Gillund, Enderlin Greg Nordsven, Killdeer Byron Thronson, Minot

1989 Ed Braunagel, Harvey
Greg Larson, R&T Water Supply
Ingram Opp, New Salem
Dale Townsend, Carrington

1988 David Burckhard, Minot Ray Feltman, Minto Dale Hanson, Valley City Robert Job, Linton

1987 Don Erickson, Watford City Dave Johnson, Washburn Marvin Johnson, Jamestown Harland Peterson, Carrington

1986 Dan Reiter, Minot
Larry Thelen, South Central Regional Water
District
Bill Werle, Velva
Jerry Zander, Mandan

1985 Ray Foss, Hillsboro
Phil Furaus, Harvey
Francis Leintz, Lisbon
LaRay Reis, Lisbon
Dwight Wurzbacher, Grand Forks

1984 Larry Boepple, Halliday Lester Carman, Bismarck Joe Roshau, Killdeer Beven Shaw, Williston

1983 Gary Armstrong, Rolla
Cliff D'Heilly, Neche
Virgil Houim, Rugby
Bud Lund, Bismarck
Arnonld Stokkeland, Cooperstown

1982 Fred Clark, Grafton
Harry Hanks, Beulah
Don Larson, Gwinner
Bill Mendewald, Hankinson
John Muus, Grand Forks

1981 Marvin Baska, Mohall Alvin Carlson, Langdon Al Swanson, Jamestown Gene Thomas, McVille Casper Volk, Rugby



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91st ANNUAL MEETING OF THE NORTH DAKOTA WATER AND POLLUTION CONTROL CONFERENCE

The 91st Annual Meeting of the North Dakota Water and Pollution Control Conference (NDWPCC) was held October 8, 9, and 10, 2019, at the Ramkota, Bismarck, North Dakota. The annual meeting/convention was held jointly with the North Dakota Chapter of the American Public Works Association (NDCAPWA), the North Dakota Water Environment Association (NDWEA), the North Dakota Section of the American Water Works Association (NDAWWA), and the North Dakota Chapter of the North American Stormwater and Erosion Control Association (NASECA-ND).

There was a pre-conference Workshop on The Power of Partnership: Sharing Resources with Neighboring Systems, Monday, October 7, 2019, from 9:00 a.m. to 4:30 p.m. in the Governor's Room of the Ramkota, 800 S. 3rd Street, Bismarck, ND.

Board meetings were held Tuesday, October 8, 2019, by NDAWWA at 7:30 a.m. in the Governors Room, NDCAPWA at 8:00 a.m. in Room 2160, NDWEA at 8:00 a.m. in Room 3130, and Wednesday, October 9, 2019, by NASECA-ND at 8:00 a.m. in Room 3130. The associations planned their business meetings, gave committee reports, and accepted volunteers for committees. Association business meetings were held Tuesday, October 8 (NDCAPWA); Wednesday, October 9 (NDAWWA); and Thursday, October 10 (NDWEA and NDWPCC).

Midwest Assistance Program held an Emergency Response/Vulnerability Assessment training Tuesday, October 8, 2019, from 7:30 to 11:30 a.m. in the Cannonball Room. Wastewater Operator pH Certification training was held 9:00 to 11:00 a.m. at the Environmental Training Center. Registration opened at 8:00 a.m., Tuesday, October 8, 2019, with Patty Carman, Laura Lee, Stacey Herreid, Alexis Steinman, Jacob Stokes, Jake Schafer, Bob Markhouse, Mike Trythall and Shawn Heinle welcoming all attendees. A total of 380 preregistered with final attendance being 385.

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); North Dakota Section of the American Water Works Association (NDAWWA); and the North Dakota Chapter of the American Stormwater and Erosion Control Association (NASECA-ND) was held on October 8th, 2019, in the Governor's Room of the Ramkota, Bismarck, ND. The following board members and guests were present: Mike Berg, Raj Bhattarai, David Bruschwein, Tracy Eslinger, Sarah Waldron Feld, Joe Ferguson, Bill Gefroh, Rick Gillund, Fred Goetz, Erik Gilbertson, Troy Hall, Marty Haroldson, Shawn Heinle, Jeff Hruby, Barry Johnson, Alan Kemmet, Jasper Klein, Wei Lin, Lance Meyer, Matt Moltzan, Michael Quamme, Meredith Quinn, Jake Schafer, Gabe Schell, Scott Schneider, Dean Sletten, Luci Snowden, Matt Sperry, Don Wald, Greg Wavra, Adam Zach, and Gary Zuroff.

The meeting was called to order at 9:40 a.m.by NDWPCC President Mike Berg. Copies of the meeting agenda and January 1 through October 4, 2019, financial report was provided to those in attendance.

The first order of business President Berg called for a motion to dispense with the reading of the minutes from the May 22, 2019 minutes and approve the copy mailed to all board members. Michael Quamme so moved, Tracy Eslinger seconded, and the motion carried.

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President Berg then called for a motion to adjourn. Motion made by Dean Sletten, seconded by Rick Gillund. Meeting adjourned.

The meeting adjourned at 10:45 a.m.

Water samples for the 28th Annual Water Taste Test, sponsored by NDAWWA were accepted throughout the day Tuesday with nine public water systems competing. The Tuesday luncheon and NDCAPWA business meeting were held in the Courtyard with NDCAPWA Chair, Erik Gilbertson, presiding. Bismarck Mayor, Steve Bakken, welcomed all attendees on behalf of Bismarck.

The annual golf tournament was held at Hawktree Golf Course on Tuesday, October 8, 2019 with Alan Kemmet from the local arrangement committee in charge.

Tuesday sessions started at 1:30 pm and were held in the Heart Room, the Missouri Room and the Cannonball Room. Tuesday's sessions were moderated David Bruschwein, NDDEQ, Michael Quamme, Apex, and Gary Zuroff, Dickinson.

Tuesday topics included:

- "Fluoridation Facts and Fiction" Johnny Johnson, President, American Fluoridation Society
- "H2O-Why Water is Different than Other Molecules" Todd Seibel, Bismarck State College
- "AWIA: The Law You Need to Know if You Serve Over 3,330 Customer" – Kyle St. Clair, EPA Region 8
- "Are Your Bugs Happy? Treatment Optimization and Stabilization" Harvey Gullicks, AE2S
- "Backflow Prevention" Mitch LeBas, Backflow Prevention Services
- "Collection System Fundamentals" Ben Julson, AE2S
- "Odor and Corrosion Fundamentals" Harvey Gullicks, AE2S
- "Asbestos Pipes" Justin Otto, NDDEQ
- "Implementing Single Stream Recycling in Western ND" Rachel Shumaker, City of Dickinson
- "Small Cell Wireless" Gabe Schell, City of Bismarck
- "Biosolids Dewatering Case Studies" Delron Peters, HDR
- "Electrical Use Tracking and Cost" Troy Hall, City of Fargo and Adam Wahler, AE2S

The 3:00 p.m. break was held at the Lobby Area with all breaks sponsored by the business firms, vendors, and commercial suppliers listed in the program.

Early set up for the 31st Annual Exhibitor Program was from 4:00 to 9:00 p.m. on Tuesday in the Dakota Ball Room. Late set up was from 6:30 to 7:30 a.m. on Wednesday, October 9, 2019. Display hours were from 7:30 to 11:30 a.m. with 60 firms/suppliers reserving 65 booths. A breakfast buffet sponsored by the exhibitors was held from 8:00 to 10:00 a.m. along with a breakfast buffet poker game. Poker hands were turned in at the registration desk and the registration table, with winners announced at the Wednesday Banquet. Poker dealers included; AE2S; Apex Engineering Group; Backflow Prevention Services; Bolton & Menk; Core & Main; HDR; Interstate Engineering; KLJ; Moore Engineering; and American Fluoridation Society. The following business firms, suppliers and associations participated in the exhibitor program: NDAWWA; NDWEA; NDCAPWA; Ackerman-Estvold; AE2S; American-USA; Apex Engineering Group; Bartlett & West; Bolton & Menk; Braun Intertec; Core & Main; Dakota Pump & Controls; Dakota Supply Group; ESS brothers; Ferguson Waterworks; Flow Control; Great Northern Environmental; Hancock Concrete; Hawkins; HDR; Houston Engineering; Innovative Foundation Support works; Interstate Engineering; Kamstrup; KLJ; KLM Engineering; Larson Data Communications; Leonard Rice; Metrohom USA; Moore Engineering; MNX Inc/Triplepoint; MVTL; NDRWSA; ND Sewage Pump & Lift; NDSU/NDLTAP; Normont Equipment; Novaspect; Oral Health; Sanitation Products; SEH; Tech Sales; Sherwin Williams; Thein Well; Tnemec Coating; Treatment Resources; Ulteig; USDA-Rural Development; Vector Construction; Vessco; Widseth Smith Nolting; and William E Young.

The Annual Public Works Directors' and City Engineers' meeting was held Wednesday, October 9, 2019, at 9:00 a.m. in the Govenors Room.

The NDAWWA luncheon and business meeting was held at 12:00 p.m. in the Courtyard with NDAWWA President, John Goetz, presiding. Also, Guest Speaker, Elizabeth Carter, Vice-President, AWWA, updated the members on AWWA activities.

The Wednesday concurrent sessions started at 1:30 p.m. with Rick Gillund, Enderlin, Sarah Waldron Feld, NDDEQ, and Erik Gilbertson, Moore moderating.

Wednesday's topics included:

- "SCADA Security Strategies to Ensure Reliability" Michael Chorne, AE2S
- "Planning for the Future: The Role of Water Distribution Modeling in Master and Capital Improvement Planning" – Michael Quamme, Apex
- "Metal Eating Bugs: A Case of Microbiologically Influenced Corrosion" Jim Lennington, Bartlett & West
- "NAWS Biota Water Treatment Plant" Alan Kemmet, Houston Engineering
- "Wahpeton Pond Study" Don Wald, Wahpeton
 - "Mandan Diesel Fuel Remediation

Project" – Jim Neubauer, Mandan

- "Wipes and Grease Control" Dean Woehl, Bismarck
- "Dental Amalgam" Bill Gefroh, Bismarck and Marty Haroldson, NDDEQ
- "H2S in Wastewater" Bill Gefroh, Bismarck
- "Using New Aeration Technology to Rehabilitate Wastewater Lagoon Systems" –

Brady O'Leary, TriplePoint Environmental

- "UAV in Public Works" Brian Simmons and Kyle Mullen, Bolton & Menk
- "Medora Wastewater Treatment Improvements" Mike Berg, Apex
- "Endless Configurations Elements of Well Field Design" Mike Plante, Leonard Rice, Inc.

Attendees met at 3:00 p.m. in the Registration Area for an afternoon break.

A social hour was held from 5:30 to 6:30 p.m. in the Courtyard prior to the awards banquet. The following companies graciously sponsored the social hour, door prizes, coffee breaks, and golf tournament:

Platinum Level: Bartlett & West, Bolton & Menk, Hawkins, and Moore Engineering

Gold Level: Apex Engineering, Ferguson Waterworks, Great Northern Environmental, HDR, Interstate Engineering, Jet-Way Services, and Novaspect

Silver Level: Ackerman-Estvold, SHE, Travis Cummings, Vector Construction, and Williams Young.

The annual banquet and awards ceremony were held in the Dakota Ballroom with 155 members and guests in attendance. Mike Seminary served as master of ceremonies introducing the officers and dignitaries at the head table and calling on Chaplain Greg Carr to deliver the invocation. After dinner, Mr. Seminary called on the visiting dignitaries to present the 2019 awards. Elizabeth Carter, Vice-President, AWWA presented the Operator Meritorious Award to Randy Seelig, City of Lisbon. She then presented the Fuller Award to Joe Ferguson, City of Grand Forks.

Then Michael Quamme, NDAWWA, announced Kris Knutson as the 2019 poster winner.

Next, Mr. Zach indicated that nine public water systems participated in the 28th Annual Water Taste Test with the City of Lisbon being the 2019 winner.

Next, Erik Gilbertson, President, NDCAPWA, announced the 2018 APWA Project of the Year Awards with the City of Langdon receiving the small system award and the City of Minot Water Treatment Plant receiving the large system award.

Raj Bhattarai, WEF Trustee, presented the Bedell Award to Gary Zuroff, City of Dickinson. He then presented the Hatfield Award to Don Wald, City of Wahpeton.

Next, Bill Gefroh, NDWEA, present the 5S pins to Steve Himmelspach, City of Mandan, Jessica Wagner, KLJ, and Gary Zuroff, City of Dickinson. An Honorary pin was also presented to Raj Bhattarai, WEF Trustee.

Next, Shawn Heinle, NDDOH, presented Operator of the Year Awards to James Kershaw, Water Treatment Plant Superintendent, City of Bismarck; Ronald Narum, City Superintendent, City of Rutland; and Matt Routledge, Water Distribution and Wastewater Collection Supervisor, City of Bismarck.

Mr. Heinle also announced the winning poker hands.

The three Thursday morning concurrent sessions started at 8:00 a.m. with Shawn Heinle, NDDEQ; Marty Haroldson, NDDEQ; Brett Mock, AE2S, moderating.



Thursday's topics included:

- "Backflow Prevention" Mitch LeBas, Backflow Prevention Services
- "Solids Precipitation and Water Quality in a Home" Bill Gefroh and Michelle Klose, Bismarck
- "Distribution/Premise Plumbing Panel Discussion" Mitch Lebas, Backflow Prevention Services, Brent Beechie, ND Plumbing Board, Greg Wavra, NDDEQ, Bill Gefroh, Bismarck, and Michelle Klose, Bismarck.
- "Speed Dating" NDWEA Members
- "NDDEQ Regulation Updates" Marty Haroldson and Sarah Waldron Feld, NDDEQ
- "Bismarck Southside Stormwater Improvements"
 Scott Schneider, Apex
- "Better Prediction of Urban Flood Risk Using 2D Models" Justin Klabo, AE2S
- "Alternative Approaches to Sizing Multiple Water Quality BMP's in Large Watersheds" – Jeff Hruby, AE2S
- "What is Water? The Evolving Definition of Water in the U.S." Daniel DeJoode, Braun Intertec
- "City of Bismarck Stormwater Approval Process Panel Discussion" – Gabe Schell, Bismarck Mike Greer, Bismarck Ken Nysether, SHE, Brad Krogstad, KLJ, and Hunt Boustead, Trademark Reality

A break was held at the Registration Area at 10:00 a.m.

The joint business meetings and luncheon of the NDWEA and NDWPCC were held at 12:00 noon Thursday, October 10, 2019, with the NDWEA Past President Marty Haroldson and NDWPCC President Mike Berg presiding. Past President Haroldson opened the NDWEA meeting at 12:30 p.m. with the NDWEA financial report and announcement the slate of officers.

Next, Raj Bhattarai, WEF Trustee, spoke on current WEF programs.

President Berg called the NDWPCC meeting to order at 1:05 p.m. As the first order of business President Berg called for a motion to dispense with the reading of the minutes from the 2018 annual meeting in Grand Forks and approve the minutes as published in the Official Bulletin, October-December 2018, Volume 106, Numbers 10-12. Luci Snowden so moved. Sarah Waldron Feld seconded, and the motion carried.

Next, Mr. Heinle presented the 2018 NDWPCC financial report, showing a net income of \$61,936.00 and total assets of \$212,404.94. President Berg, called for a motion to approve the financial report. Jake Schafer so moved. Gary Zuroff seconded, and the motion carried.

Next, President Eslinger ask for nominations for life membership. Hearing none, President Berg called for a motion to close nominations. Jake Schafer so moved. Karla Olson seconded, and the motion carried.

Next, Chair of the Nominating Committee, Bill Gefroh, read the slate of officers received from the nominating committee:

Wei Lin, President
Michael Quamme, President Elect
Jim Lennington, Vice-President
Lance Meyer, Director
Scott Schneider, Director
Gabe Schell, Director
Luci Snowden, Director
Jeannie Shultz Mock, Associate Director
Shawn Heinle, Secretary-Treasurer

President Berg called for other nominations from the floor. Hearing none, President Berg called for a motion to close nominations and the secretary to cast a unanimous ballot. Tim Paustian so moved. Matt Sperry seconded, and the motion carried.

Next, President Wei Lin presented outgoing President Berg the NDWPCC President's Service Award and thanked him for his dedicated service.

President Wei Lin called for a motion to close the meeting. Michael Quamme so moved. Matt Sperry seconded, and the 91st Annual Meeting of the NDWPCC adjourned at 1:30 p.m., Thursday, October 10, 2019.

Respectfully submitted,

Shawn Heinle Secretary-Treasurer We don't innovate for innovation's sake. We innovate when it brings

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NDSU Students Win 2019 Environmental Challenge



A team of students from the NDSU Department of Civil and Environmental Engineering won the 2019 Environmental Challenge. The competition was held at the Minneapolis Convention Center Nov. 7 as part of the annual Conference on the Environment.

This year's competition was focused on reducing chloride discharge from ion exchange water softeners used by residents and industries in a hypothetical small town. Teams are judged on written reports, table-top displays and formal presentations.

"This event gave our students the chance to use the knowledge they learned in the classroom to solve a real-world problem," said Wei Lin, associate professor of civil and environmental engineering.

Students were asked to analyze existing data and establish a chloride reduction goal; present and evaluate alternatives for chloride reduction; propose capital improvements at the water treatment plant and wastewater treatment plant; propose changes to industrial user agreements and city ordinances; and provide cost estimates and analyses.

Eight teams from four universities participated in the 2019 Environmental Challenge. NDSU's team included students Troy Borud, Dustin Grandbois, Mara Roteliuk and Arianna Christian.

The event is sponsored by the Air & Waste Management Association-Upper Midwest Section and Central States Water Environment Association-Minnesota Section.

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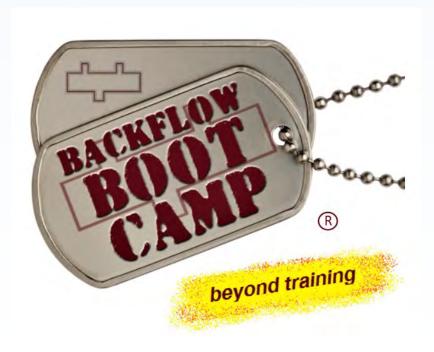
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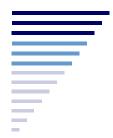
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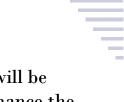


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Pete Aamold	Mark Blonigen	Ryan David	Brent Erickson
Grand Forks	Fargo	Houston Engineering	AE2S
Justin Ahmann	Brian Borden	Tyson Decker	Tracy Eslinger
Ackerman-Estvold	Grand Forks	Bartlett & West	Moore Engineering
Nikomaldeus Alvira	Lisa Botnen	Tyler Dehne	Joe Ferguson
Jamestown	Grand Forks	Bismarck	Grand Forks
LeahRae Amundson	Andy Brunen	Jeremy Deitz	Mike Fischer
Grand Forks	New Salem	Grand Forks	Bismarck
Lisa Ansley	David Bruschwein	Jordan DeLorme	Shannon Fisher
AE2S	NDDEQ	Minot	NDDEQ
Craig Batholomay	Steve Carroll	Grace Demars	Todd Flynn
NDDEQ	Cass RWD	Watford City	Ellendale
Zach Bartholomew	Travis Carufel	Thomas Demke	Tim Folden
Grand Forks	Bismarck	Apex	Sawyer
Jesse Berg	Mike Chorne	Sam Devries	Matt Fredrickson
Minot	AE2S	NDDEQ	Fargo
Mike Berg	Scott Christie	Randall Dietz	Curt Frey
Apex	Buxton	Beach	Bismarck
Beau Bergeron	Garrett Clark	Travis Dillman	Matthew Friesen
Williston	Bismarck	Interstate Engineering	Oberon
Jody Bertrand	Curt Clarys	Paul-Djamen Djamen	Duane Friesz
Fargo	Williston	NDDEQ	Mandan
Rajendra Bhattarai	Patricia Carmen	Eric Dodds	Justin Froseth
WEF	NDDEQ	AE2S	Mandan
Mike Bibow	Elizabeth Carter	Mike Dora	Jeron Fueller
AE2S	AWWA	Ulteig	Bismarck
Russ Binstock	Dean Corcoran	Megan Dunbar	Todd Fugere
Bismarck	Fargo	Bismarck	Fargo
Bart Bishop	Nic Cullen	Tony Eback	Doug Gahner
Beach	Houston Engineering	Oberon	Fargo

Jason Grzadzieleski **Brock Garaas** Ward Heidbreder Derek Houim Bismarck Mandan **NDRWSA** Fargo Shawn Heinle Steven Gee Harvey Gullicks Corey Houim Fargo AE2S **NDDEO** Fargo Bill Gefroh Daryn Gullickson Jeff Heintz Darrell Hournbuckle Bismarck Mandan **Bismarck Interstate Engineering** Erik Gilbertson Steve Gylten Dan Heitzman Kasey Hudson **Houston Engineering** Moore Engineering Hatton Minot Rick Gillund Toni Haider Gary Helland **Emily Huettl** Enderlin Pembina Barr Engineering Minot **Brad Glass** Karson Henke Troy Hall Tom Huncovsky Mandan Fargo New Salem NDDOT Casey Gleich Terry Halstengard Yoel Heredia Floyd Hurt **NDDEQ** Bismarck Dickinson South Heart John "Fred" Goetz Daniel Haman Stacey Herreid Carl Jackson **Grand Forks NDDEQ** Fargo Barry Johnson Christine Goldader Robert Hanson Wade Hesch Bolton & Menk Minot Williston Valley City Dan Jonasson Paula Gores Stacey Hanson Devonno Heupel Minot NDDOT MVTL. Fargo Thomas Jones Allen Grasser Marty Haroldson Steve Himmelspach Minot Grand Forks Mandan **NDDEO** Ben Julson Susan Hazelett Kellen Grubb Laith Hintz AE2S AE2S AE2S Apex Josh Kadrmas Ryan Grubb Keith Hegney Bruce Hirchert Braun Intertec



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Brian King	James Landenberger	Nick McNelis	Shawna Nieraeth
HDR	Bartlett & West	Grand Forks	NDDEQ
Paul King	Stephen Latham	Lance Meyer	Wayne Offerdahl
American Crystal Sugar	Minot	Minot	Fargo
Justin Klabo AE2S	Mitch LeBas Backflow Prevention Services	Bill Middleton Dickinson	Nathan Olmsted Wyndmere
Jerod Klabunde	Laura Lee	Dennis Miranowski	Keith Olson
Moore Engineering	NDDEQ	Wahpeton	Harvey
Tom Klabunde	Jim Lennington Bartlett & West	Chuck Mischel	Karla Olson
Moore Engineering		NDRWSA	Apex
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Bismarck	NDDEQ	Fargo	Granville
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Tim Stetz
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On behalf of the North Dakota Section of the American Water Works Association and its Water for People Committee, we would like to thank the golf sponsors and all the individuals who attended the NDWPCC and donated to this project. We appreciate your support

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What Makes a Utility Resilient?

By incorporating resilience into a risk management framework, a utility can improve its response and recovery strategies, thereby mitigating the potential for loss of service.

BY KEVIN M. MORLEY

Kevin M. Morley is AWWA's federal relations manager at the association's Government Affairs office (www.awwa.org) in Washington, D.C.

Resilience is defined by an array of indicators that characterize a desired end state or goal. According to Section 2013 of America's Water Infrastructure Act (AWIA) of 2018, resilience is the "ability of a community water system or an asset ... to adapt to or withstand the effects of a malevolent act or natural hazard without interruption to the asset's or system's function, or if the function is interrupted, to rapidly return to a normal operating condition." AWIA requires community water systems serving populations of 3,300 or more to perform two tasks: (1) conduct a risk and resilience assessment and (2) pre- pare or revise an emergency response plan on a prescribed schedule every five years, starting in 2020. For more information, see Priority Action on Risk and Resilience, *Journal AWWA*, February 2019 (https://doi. org/10.1002/awwa.1229).

Drinking water and wastewater systems have been designed to be resilient given the critical functions they provide to the communities they serve. However, various incidents have revealed the need for a more strategic perspective to resilience that goes beyond some of the tactical actions typically defined in an emergency response plan. This need led to the development of the Utility Resilience Index (URI) as a means to provide an all-hazards, system-level assessment of resilience.

PUTTING THE URI INTO PRACTICE

The URI is based on 12 indicators of resilience that a utility can readily and quickly assess to determine where potential gaps or opportunities exist to improve its capacity to respond and recover from an incident. These resilience indicators were selected based on findings from historical records, after-action reports, best practices, and lessons learned from multiple incidents. When considered as a whole, the indicators provide a snapshot of a utility's resilience capacity.

The URI includes two classes of indicators that either affect utility functions or the community served:

- Operational (O) indicators reflect the utility's tactical capacity to react quickly and/or cope with various incidents that have the potential to disrupt service.
- Financial (F) indicators reflect the utility's fiscal capacity to react quickly and/or cope with various incidents that have the potential to disrupt revenue and costs.



Let's apply the URI to a medium-size mid-Atlantic utility that is considering AWIA and what actions may be beneficial after some close calls in recent years. The utility's manager inputs the utility profile to the URI and finds the utility scored a 44 out of 100. What does that mean? It means there is a lot of opportunity for improvement, including accepting certain limitations that should inform strategies for alternatives, as it may not be feasible to "fix" all the limiting indicators. Consider the following URI inputs, as reflected in the accompanying table:

01: Emergency Response Plan (ERP) shows that while the utility has a plan, it hasn't been exercised with tabletop or functional exercises. In addition, the utility hasn't prepared any resource typing for its system that could help the utility's staff determine what they may need to request from others and what they may be able to provide others during an incident. This is all about pre-incident planning and

preparedness, which reduces the stress and chaos associated with an actual incident. Training, exercises, and resource typing are examples of strategies, plans, and procedures that support the intent of AWIA's ERP provisions. For more information, download AWWA's new *Water Sector Resource Typing Guidance* manual at https://bit.ly/2G7hczw.

O2: National Incident Management System (NIMS) Compliance is voluntary, but it's an eligibility requirement for certain federal homeland security grant programs. The utility has participated in basic awareness training available from the Federal Emergency Management Agency and the US Environmental Protection Agency (USEPA). However, staff who are most likely to lead (i.e., the incident commander) would benefit from higher-level training to facilitate engagement with other stakeholders during a significant incident. Understanding the process for incident management tracking and documentation pre-incident is much better than learning it while trying to manage an emergency.

O3: Mutual Aid and Assistance has been critical to water-sector resilience for years. The value of these agreements has been demonstrated time after time, spanning myriad incidents from hurricanes to earthquakes to blizzards. This utility is part of its state's Water/Wastewater Agency Response Network (WARN), which provides state-level support and means by which interstate mutual aid can be facilitated.

O4: Emergency Power for Critical Operations is often the rate-limiting fac- tor in recovery following an incident that affects power supply. This utility reports the ability to sustain power for critical operations for up to 24 hours, which is likely limited by fuel capacity. Regulation can also hamper investment in backup power generators, as their use during nonemergency periods often triggers stringent Clean Air Act limits. The cost of generators has made them a key shared resource among WARN utilities, especially in regions depending on multiple booster pump or lift stations.

O5: Ability to Meet Minimum Daily Demand or Treatment is at the core of a utility's function. In the case of a drinking water system, how long can typical daily demand be sustained? The answer depends on a combination of finished water storage and, where applicable, the ability to service customers with gravity. Whatever the threshold, this represents a critical planning decision point at which alternative water supply options may become necessary. This is one of the new provisions in AWIA that a utility is expected to determine. Resources such as the USEPA's report Planning for an Emergency Drinking Water Supply (https://bit.ly/32zADL0) can be used to assess options and consider how distribution would be achieved in coordination with state/local partners. In less than 24 hours this utility would be in crisis, which could be caused by source water contamination, cyanotoxins, or the plant's physical impairment from a natural or man-made incident. This low threshold suggests that some critical planning is needed to ensure options to mitigate the impacts on the

com- munity are developed and ready to be implemented if necessary. AWIA requires systems to develop alternative source water options.

O6: Critical Parts and Equipment is an important factor in recovery, especially in this era of just-in-time delivery. A robust asset management program may aid a utility considering this indicator. This utility has a moderate maintenance yard with a limited stock of critical spares, meaning it could take several weeks to locate and deliver a replacement. Mutual aid has facilitated the location and delivery of unique parts. It's important to consider these limitations within a risk and resilience assessment, and staff knowledge should support preparation of a "what if" strategy if a spare part isn't economically feasible. Resource typing can also help a utility assess the limitations of its capacity to assist others and identify resources it may need to request.

O7: Critical Staff Resilience is the per- centage of response-capable staff available for critical operations and maintenance positions who have cross-trained backups. Given the size of this utility, there is a fair amount of cross-training—likely out of necessity. Utilities that have prepared for staffing outages for pandemic planning or work stoppage may have a higher level of capability in this category.

F1: Business Continuity Plan (BCP) provides an indication of the integration of risk management into the utility's culture. A BCP is often where/how a utility has addressed some level of cybersecurity risk management as part of a disaster recovery plan. In addition, a BCP is typically where continuity of enterprise functions like payroll and accounting are documented. This utility hasn't developed a BCP, suggesting there is likely a need to address critical AWIA provisions related to securing cyber assets and financial infrastructure.

F2: Utility Bond Rating indicates a utility's financial stability and capacity to repay debt. This utility has received a good rating from an independent bond agency, and the utility's fiscal health is sound.

F3: GASB Assessment entails deter- mining how the utility has evaluated its infrastructure risk. Specifically, it determines how much of the system has undergone a condition assessment to evaluate the remaining life of its assets so rehabilitation and replacement investments can be properly considered with financial risk management plans. This utility has assessed a small proportion of its system, meaning it doesn't have a complete estimate of prospective future financial obligations.

F4: Unemployment and F5: Median Household Income are included to reflect the capacity of the community to react quickly and/or cope with various incidents that have the potential to disrupt utility revenue and/or influence operational response. Research has demonstrated that communities with high levels of unemployment and low median household income are more vulnerable. Although a utility can't directly alter such measures, it can provide key indicators of the potential impact a

loss-of-service incident may have on the population served.

Utility Resilience Index (URI) Worksheet

The URI is the product of the weighting developed for each indicator (V_{ij}) and the maximum value indicated in the utility profile (w_i) .

Utility Resilience Indicators (j)	Utility Profile	Wj	V _{ij}	MAX Wj*V
O1: Emergency Response Plan (ERP)			0.1389	0.0347
No ERP		0.00	1	
ERP developed and/or updated	х	0.25	1	
Staff training on ERP (i.e., Tabletop)		0.50	1	
Resource typed assets/teams defined and inventoried		0.75	1	
Functional exercises on the ERP conducted		1.00	1	
O2: National Incident Management System (NIMS) Compliance			0.1561	0.078
No ICS/NIMS training		0.00	1	
ICS 100/200 provided to key staff	х	0.25	1	
ICS 700/800 provided to key staff	х	0.50		
ICS 300/400 provided to key staff		0.75	1	
Utility certified as NIMS compliant		1.00	1	
O3: Mutual Aid and Assistance			0.1868	0.140
None		0.00	1	
Mutual aid/intramunicipal (within own city/town agencies)		0.25	1	
Mutual aid/local-local (with adjacent city/town)		0.50	1	
Mutual aid/intrastate (e.g., Water/Wastewater Agency Response Network [WARN])	х	0.75		
Mutual aid/interstate and intrastate		1.00		
O4: Emergency Power for Critical Operations			0.0595	0.014
None		0.00	1	
Up to 24 hrs	х	0.25		
25—48 hrs		0.50		
49—72 hrs		0.75	1	
Greater than or equal to 73 hrs		1.00		
O5: Ability to Meet Minimum Daily Demand (Water) or Treatment (Wastewater)			0.0966	0.048
None		0.00	1	
Up to 24 hrs		0.25	1	
25—48 hrs	х	0.50	1	
49—72 hrs		0.75	1	
Greater than or equal to 73 hrs		1.00	1	
O6: Critical Parts and Equipment			0.0878	0.022
3—4 weeks or greater		0.00		
1 — <3 weeks	х	0.25	1	
3 — <7 days		0.50	1	
1 — <3 days		0.75		
Less than 24 hrs		1.00		
O7: Critical Staff Resilience			0.0605	0.030
<10%		0.00]	
10-25%		0.25	1	
>25-50%	х	0.50]	
>50-75%		0.75]	
>75—100%		1.00	1	

Utility Resilience Indicators (j)	Utility Profile	Wj	V _{ij}	MAX Wj*Vij	Utility
F1: Business Continuity Plan (BCP)			0.0463	0.0000	
No BCP	х	0.00			
BCP under development		0.25	1		
BCP completed		0.50			
BCP fully implemented		0.75	1		
Annual commutment of resources and BCP exercised		1.00	1		
F2: Utility Bond Rating			0.064	0.0480	
Caa, less than or equal to		0.00			
B-Ba		0.25	1		
Baa-A		0.50	1		
AA	x	0.75	1		
AAA		1.00	1		
F3: GASB Assessment			0.0176	0.0044	
Less than 20% assessed		0.00			
20—40% assessed	x	0.25	1		
41—60% assessed		0.50	1		
61—80% assessed		0.75	1		
Greater than 81% assessed		1.00	1		
F4: Unemployment			0.0459	0.0115	
>5% national average		0.00	1		
>2—4% national average	х	0.25	1		
±2% national average		0.50	1		
<2—4% national average		0.75	1		
<5% national average		1.00	1		
F5: Median Household Income			0.04	0.0100	
<10% state median		0.00	1		
<5—10% state median	x	0.25	1		
±5% state median		0.50]		
>5—10% state median		0.75]		
>10% state median		1.00			
					44.29

LOOKING AHEAD

Collectively, the URI provides a utility with a high-level assessment of its general resilience status. Preparing the URI is also a good opportunity to consider risk and resilience management options to ensure AWIA compliance. Also, AWWA has developed free training on AWIA and offers resources that facilitate compliance, all of which are part of the association's Utility Risk & Resilience Certificate Program (www.awwa.org/risk).

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Drinking Water P	rogram Directory	
Program Administrator	Greg Wavra	701-328-5257
Acrylamide and Epichlorohydrin Rule	Jacob Stokes	701-328-6622
Arsenic Rule	Alexis Wanek	701-328-5258
Consumer Confidence Reports	LeeAnn Tillotson	701-328-5293
Disinfectant/Disinfection Byproducts Rule (TTHM, HAA5) Stage 1 and Stage 2 Rule	Tammy Lamphear	701-328-5295
Electronic Reporting Information System (ERIS)	All Staff	701-328-5211
Filter and Backwash Recycle Rule	Jacob Stokes	701-328-6622
Fluoride Addition	Stacey Herreid	701-328-5287
Groundwater Rule	Jeni Walsh Jacob Stokes	701-328-5231 701-328-6622
Inspections: Northeast	Gregg Stewart	701-328-6621
Inspections: Northwest	Mike Trythall	701-328-5269
Inspections: East	Jacob Schafer	701-328-6375
Inspections: South Central	Bob Markhouse	701-328-6623
Lead and Copper Rule	Alexis Wanek	701-328-5258
Surface Water Treatment Rule: Interim Enhanced, Long Term 1 Enhanced, Long Term 2 Enhanced	Stacey Herreid Mike Trythall	701-328-5287 701-328-5269
Microscopic Particulate Analysis (MPA)	Jacob Stokes	701-328-6622
Nitrate/Nitrite Program	Tammy Lamphear	701-328-5295
Operator Certification	Craig Bartholomay	701-328-6626
Operator Expense Reimbursement/Public Notice Rule	LeeAnn Tillotson	701-328-5293
Operator Training	Shawn Heinle	701-328-6627
Pesticides (SOCs)	Mike Trythall	701-328-5269
Primary and Secondary Inorganics	Jacob Stokes	701-328-6621
Public Water System Updates (changes to source, treatment, contact, etc.)	Tammy Lamphear	701-328-5295
Radionuclide Rule: Gross Alpha, Total Radium, Uranium	Stacey Herreid	701-328-5287
Revised Total Coliform Rule Level 1 and 2 Assessments	Jeni Walsh Josh Seerup	701-328-5231 701-328-5257
Unregulated Contaminant Monitoring	LeeAnn Tillotson	701-328-5293
Volatile Organic Chemicals (VOCs)	Mike Trythall	701-328-5269
Central Phone: 701-328-5211		Fax: 701-328-5200
North Dakota Pollutant Discharge Eli	imination System Program I	Directory
Program Administrator	Marty Haroldson	701-328-5234
Animal Feeding Operations	Brady Espe Rachel Strommen	701-328-5228 701-328-5244

North Dakota Pollutant Discharge Elimination System Program Directory				
Program Administrator	Marty Haroldson	701-328-5234		
Animal Feeding Operations	Brady Espe Rachel Strommen Jeremy Lang	701-328-5228 701-328-5244 701-328-5219		
Biosolids	Sarah Waldron-Feld	701-328-5234		
Construction/Industrial Stormwater	Dallas Grossman Duane Sandvick Samantha Swanberg	701-328-5242 701-328-5260 701-328-52839		
Dewatering and Hydrostatic Testing	Sarah Waldron-Feld	701-328-5237		
Discharge Monitoring Reports (DMRs)	All Staff	701-328-5210		
DMR Quality Assurance (QA) Study	Marty Haroldson	701-328-5234		
Industrial Pretreatment	Jeff Roerick Duane Sandvick	701-328-5240 701-328-5260		
Inspections	All Staff	701-328-5210		
Lagoon Overflows/Releases/Spills	All Staff	701-328-5210		
MS4 Stormwater	Dallas Grossman Duane Sandvick	701-328-5242 701-328-5260		
Public Notices/NDPDES Permits	All Staff	701-328-5210		
Septic Pumper	Sarah Waldron-Feld	701-328-5237		
Wastewater Discharge Reviews	All Staff	701-328-5210		
Central Phone: 701-328-5210		Fax: 701-328-5200		

Tom's To-Do List

SAVE CLIENT \$10M

Our Senior Water Resource Engineer, Tom, loves a challenge. That's why when designing a solution for stormwater retention/detention, Tom got creative. By creating an eco-friendly solution over a traditional pump station, this portion of flood control provided an innovative approach and saved the Souris River Joint Board millions of dollars in the process.

Turning passion into progress, that's what Tom is most proud of. And we are, too.





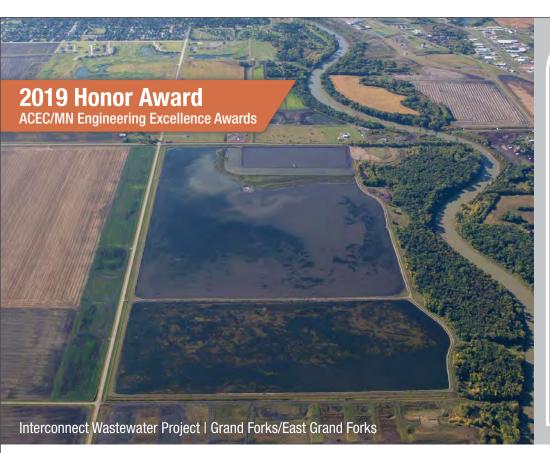
To learn more about the Centennial Pond/Perkett Ditch project, visit our website at www.ackerman-estvold.com/projects





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