46th Annual
Collection System Operators Conference

Jasper, Minnesota Lift Station

March 23-25, 2020
Marriott Northwest, Brooklyn Park
The Minnesota Pollution Control Agency Certification and Training Unit welcomes you to the 46th Annual Collection System Operators Conference. It is our objective that you will find this event interesting, innovative, and educational.

Our exceptional planning committee has worked hard to design a program with relevant industry topics. We encourage you to explore all of the sessions, and to take time to network with fellow attendees.

We appreciate and gratefully acknowledge the contributions of all involved in putting together this conference – the planning committee, developers, speakers, presenters, presiders and vendors.

Finally, we thank you – the attendees and participants – for your support. You are the reason we do this. Enjoy the conference!

The Training Team
Nick, Annaliza, Gabe, Matt, Tracy, Don, Marc, Aaron

On-line conference survey

Please share your comments and feedback about the 2020 conference on-line. You may use a computer or your mobile device to access the conference evaluation at this link www.tinyurl.com/2020MPCA

The survey is brief and your feedback helps focus on your wants and needs for the coming year. There are two laptop computers near the registration booth if you'd like to complete your evaluation there. You can also obtain a paper copy at the registration desk if you would prefer to submit comments that way. Thanks for your help to make this conference better!
Contents
Welcome .............................................. 2
General information ............................ 3
Monday at-a-glance ............................ 4
Monday morning ............................... 5-6
Monday afternoon ............................ 7-8
Tuesday at-a-glance ............................ 9
Tuesday morning ............................. 10-11
Tuesday afternoon ........................... 12-13
Wednesday at-a-glance ...................... 14
Wednesday morning ....................... 15-16
Vendors/Exhibitors .......................... 17
Developers/Planners ........................ 18
Speakers ....................................... 19-21
Maps.............................................. 22-23

General Information

Lunch – Your name badge is required and will be checked for lunch on Monday, Tuesday, and Wednesday.

Breaks – Breaks held in the hallway outside the Northland Ballroom.

Smoking – Smoking is not allowed in the Conference Center.

Exam Refreshers – The exam refreshers are working sessions; please bring a pencil and calculator.

Contact hours – To receive 16 direct contact hours, you must attend all day on Monday, Tuesday, and until 2:30 on Wednesday. You must fill out the attendance sheets for each session you attend. Attendance sheets will be passed around towards the end of each session (morning and afternoon).

Vendor drawing – Prize winners will be posted during the Wednesday Vendor show. You must be present to win.

Ask MPCA – MPCA staff will be available Tuesday and Wednesday in the hallway adjacent to the Northland Ballroom to answer any questions you may have.
Monday at-a-glance

7:30 am
Registration

8:30 am
Welcome & Introduction – Nick Haig, MPCA – Northland Ballroom

8:35 am
Sewers, Public Health, Coronavirus, and You – Scott Schaefer, P.E., AE2S – Northland Ballroom

9:30 am
Pipe & Manhole Rehab

12:00 pm
Lunch – Great Room

1:00 pm
Lift Station Rehab

4:30 pm
End of day
Monday morning

Plenary Session  
Northland Ballroom  
Developer: Marc Weikert

8:30 Welcome & Introduction – Nick Haig, MPCA
8:35 Sewers, Public Health, Coronavirus, and You – Scott Schaefer, P.E., Wastewater Practice Leader, AE2S

Class SA & SB Exam Refresher  
Hennepin Salon 3  
Developer: Joe Rubbelke

9:30 Two-day session reviewing material for the Class SA and SB Collection System Exams.  
*Must be registered separately for this session. Class is limited to 50.

Class SC & SD Exam Refresher  
Elm Creek Amphitheater  
Developer: Dave Simons

9:30 Two-day session reviewing material for the Class SC and SD Collection System Exams.

Pipe & Manhole Rehab  
Minnesota Salon 1  
Developer: Todd Stelmacher

9:30 Rehabilitating Concrete Structures – A Look to Technology to Speed Up the Process – John Sierzega
10:30 Air Release Valve Inspecting and Cleaning – Doug Kilanowski
11:15 Options for Pipe and Manhole Rehab – Todd Stelmacher

Asset Management & Technology Tools  
Minnesota Salon 2  
Developer: Carol Kaszynski, Bert Tracy

9:30 Fight Like You Train: How to Think About Normal Operations in a Response Mindset – Mark Ray
10:30 Odor Management Program – Jeff Schwarz
11:15 Forcemain Condition Assessment Without Disruption to Pipeline Service – Bill Johnson, Michael Villari
Pump Applications – Arbor Lakes
Case Studies
Developer: Pete MacPherson

9:30 Successful Lift Station Retrofits – Jason Draeger
10:20 Little Falls I/I Study Using the Most Innovative Technology – Chad Kubasch
11:10 The Use of Diesel Driven Pumps to Ensure Redundancy in your Collection System – Pete MacPherson

Commercial Vehicles/Traffic Zones/Utility Safety
Hennepin Salon 1
Developer: Don Berger

9:30 Utility Safety – Mike Mendiola, P.E.
10:15 Traffic Zone Safety – Recent Changes – Kathleen Schaefer

12:00 – Lunch
Monday afternoon

Class SA & SB Exam  Hennepin Salon 3
Refresher  Developer: Joe Rubbelke
1:00  Two-day review session continues.

Class SC & SD Exam  Elm Creek
Refresher  Amphitheater  Developer: Dave Simons
1:00  Two-day review session continues.

Lift Station Rehab  Minnesota Salon 1
Developer: Stan Meyer
1:00  Lift Stations and Resulting Sewer Back-up Claim Decisions – Robert Bernier, DeAnn Miller
2:00  Lift Station Risk Assessment: How the City of Fargo WW Utility Analyzed Risk to Prioritize Critical Sanitary Sewer Lift Stations – Kellen Grubb
3:00  Lift Station Pump and Valve Retrofits – Steve Alaspa
4:00  Upgrading Level Sensing Devices – Steve McCuskey

Stormwater  Minnesota Salon 2
Developer: Rachel Kranz
1:00  Building Community Resilience Leveraging City-Wide 2D Flood Modeling – Justin Klabo
1:50  Duluth Stormwater – Culverts and Capacity – Todd Carlson
2:50  Minneapolis Urban Flood Mitigation Program – Lisa Goddard, Paul Hudalla, Jonathan Libby
3:40  Surface Drinking Water Source Planning in Minnesota – Dereck Richter, Tracy Lund
### MnWARN/Emergency Response/Duty Officer

**Developer:** Mark Hugeback

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00</td>
<td>Vapor Intrusion in Collection Systems – Kevin Mustonen</td>
</tr>
<tr>
<td>1:35</td>
<td>Meet the Minnesota State Duty Officer – Justin Meyer</td>
</tr>
<tr>
<td>2:00</td>
<td>MnWARN 101 – Justin Ahlers</td>
</tr>
<tr>
<td>2:45</td>
<td>Sampling 101 – Amy Schreader</td>
</tr>
<tr>
<td>3:15</td>
<td>Sanitary Sewer Release Case Study – Joe Haller</td>
</tr>
<tr>
<td>3:45</td>
<td>Sanitary Sewer Overflow – Towards Zero SSOs – Mark Hugeback</td>
</tr>
<tr>
<td>4:00</td>
<td>Stay Ahead of the Media – Ben Martig</td>
</tr>
</tbody>
</table>

### Retirement

**Developer:** Marc Weikert

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00</td>
<td>Social Security – Securing Today and Tomorrow – Brian Rudolph</td>
</tr>
<tr>
<td>2:15</td>
<td>Retirement Planning Basics – Kirk Soland</td>
</tr>
<tr>
<td>3:00</td>
<td>MSRS Pension, Deferred Compensation, and Health Care Savings – Kirk Soland</td>
</tr>
<tr>
<td>3:30</td>
<td>MNPERA – From New Hire to Retire – Luis Argueta</td>
</tr>
<tr>
<td>Time</td>
<td>Activity</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------</td>
</tr>
<tr>
<td>7:30 am</td>
<td><strong>Hot Breakfast</strong> – hallway</td>
</tr>
<tr>
<td>8:00 am</td>
<td>Collection System Technologies &amp; Maintenance</td>
</tr>
<tr>
<td>11:30 am</td>
<td><strong>Lunch – Great Room</strong></td>
</tr>
<tr>
<td>12:30 pm</td>
<td>Leadership</td>
</tr>
<tr>
<td>4:30 pm</td>
<td><strong>End of day</strong></td>
</tr>
</tbody>
</table>
Tuesday morning

7:30  Hot breakfast in hallway outside Northland Ballroom

Class SA & SB Exam Refresher  Hennepin Salon 3
Developer: Joe Rubbelke

8:00  Two-day review session continues.

Class SC & SD Exam Refresher  Elm Creek Amphitheater
Developer: Dave Simons

8:00  Two-day review session continues.

Collection System Technologies & Maintenance  Minnesota Salon 1
Developer: Fasil Yitbarek

8:00  Trenchless Investigation – Taking a look at Sewer Manholes and Private Sewer Laterals – Spencer Cossalter
9:15  Utilizing Ultra Violet (UV) Cure for CIPP Lining of a Small City Sanitary Sewer System – Dave Hutton, Chris Dillon, Johannes Bauer, Fasil Yitbarek
10:50 Trenchless Technologies – Tony Ostgulen
11:00 Pipe Plug Safety – Karl Trott

Utility Locating  Arbor Lakes
Developer: Joe Rubbelke

8:00  Locating Overview & The Evolution of the Tracer Wire Spec – Jeff Dale, Frank Stuemke
9:15  Natural Gas Safety – Jerry Almgren, Steve Olinger
10:30 City of Faribault – Tracer Wire Case Study – Ellen Scheffler
Tuesday morning

**SCADA**  
*Minnesota Salon 2*  
*Developer: Kelley Janes*

8:00  Searching for Energy Savings and Efficiency – *Paul Hoeschen*

9:20  SCADA Security: Implementing the New Requirements – *Anthony Pittman*

10:45 What You Need To Know BEFORE a Control Panel Replacement – *Jason Salber, Kelley Janes*

---

**F.O.G. Alert!**  
*Hennepin Salon 1*  
*Developer: Eric Schoon*

8:00  Interceptor Design & Sizing Repercussions on H2S Build-up – *Silvano Ferrazzo*

9:15  Designing & Sizing the Precast Concrete Gravity Grease Interceptor– *Claude Goguen, Andy Winkler*

10:00 F.O.G. Alert! Reducing F.O.G. in Sanitary Sewer Systems – *Tim Kieffer, Derek Goddard*

11:00 Fats, Oils, & Grease: Reducing F.O.G. in the Sanitary Sewer – *Travis Schlangen*

---

11:30 – Lunch
Tuesday afternoon

Class SA & SB Exam
Hennepin Salon 3
Refresher
Developer: Joe Rubbelke
12:30 Two-day review session continues.

Class SC & SD
Elm Creek Amphitheater
Exam Refresher
Developer: Dave Simons
12:30 Two-day review session continues.

Leadership
Minnesota Salon 1
Developer: Rachel Kranz
12:30 Leadership 2.0 – Dr. Stephanie Dustrud
1:20 Ten Lessons From Ten Books for Utility Leaders – Colton Janes, P.E.
2:10 BOLD Trust – Dr. Stephanie Dustrud
3:10 Working Alongside Your Coworkers & Personality Assessment – Dr. Mike Monroe Kiefer

The Ins & Outs of Designing and Constructing Wastewater Collection Systems
Arbor Lakes
Developer: Angie Craft, Jeannie Reardon
12:30 Reading Drawings – Tom O’Connor
1:30 Project Design and Development – Costa Dimitracopoulos
2:00 Construction Management – Jeannie Reardon
3:00 St. Paul Beltline Storyboard – Joel Benton
3:30 Mound 7021 Forcemain – Kathryn Mol


**Tuesday afternoon**

**Lift Station Tour**  
*Minnesota Salon 2*

*Developer: Ray Anderson*

12:30  Pre-tour Metropolitan Council Lift Station #27 in Hopkins – *Ray Anderson*

*Limited to 40; bus provided.*

---

**What Not to Flush**  
*Hennepin Salon 1*

*Developer: Aaron Kilpo*

12:30  Wipes Clog Pipes: How to Spread the Message – *Cathy Malakowsky, Mary Connor*

1:30  Rochester’s Efforts to Keep “Non-Desirables” Out of the Wastewater System – *David Lane*

2:00  Effects of Flushables on Pumping Equipment – *Pete MacPherson*

3:15  Panel Discussion – *Cathy Malakowsky, David Lane, Pete MacPherson, Charlie Gammon*
### Wednesday at-a-glance

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am</td>
<td><strong>Welcome &amp; Introduction</strong> – Nick Haig, MPCA – Northland Ballroom</td>
</tr>
<tr>
<td>8:05 am</td>
<td><strong>Understanding Minnesota’s Changing Hydroclimate</strong> – Kenny Blumenfeld, Ph.D. – Northland Ballroom</td>
</tr>
</tbody>
</table>
| 9:00 am  | **Minnesota Salon 1**
|          | Workplace/Personnel Strategies                                      |
|          | **Minnesota Salon 2**
|          | Pumps & Controls                                                  |
|          | **Arbor Lakes**
|          | New Technologies & the Problems They Solved                       |
|          | **Hennepin Salon 1**
|          | Combating Climate Change                                          |
|          | **Elm Creek Amphitheater**
|          | (7:45 Exam check-in)
|          | Certification Exams                                               |
| 12:00    | **Lunch** – Great Room                                          |
| 12:30 pm | **Vendor/Professional Organization Displays** – Northland Ballroom |
|          | *(Prizes awarded; must be present to win.)*                      |
| 1:30 pm  | **Meet & Greet w/MPCA staff** – Northland Hallway               |
| 2:30 pm  | **Conference adjourns**                                          |
### Plenary Session  
**Northland Ballroom**  
**Developer: Don Berger**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>Welcome &amp; Introduction – <em>Nick Haig</em></td>
</tr>
<tr>
<td>8:05</td>
<td>Understanding Minnesota’s Changing Hydroclimate – <em>Kenny Blumenfeld, Ph.D.</em>, <strong>Sr. Climatologist, DNR</strong></td>
</tr>
</tbody>
</table>

### Certification Exams  
**Elm Creek Amphitheater**  
**Developer: Tracy Finch**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:45</td>
<td>Exam check-in</td>
</tr>
<tr>
<td>8:00-12:00</td>
<td>Bring non-programmable calculator, pencil and photo ID. No smartphones. Formulas provided. See Exam List posted at the table across from Registration to confirm your application has been accepted.</td>
</tr>
</tbody>
</table>

### Pumps & Controls  
**Minnesota Salon 2**  
**Developer: John Selvog, Steven Forsythe**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>Odor Control, F.O.G. Remediation and Corrosion Control using Hydroxyl Radicals – <em>Michael Tuel</em></td>
</tr>
<tr>
<td>10:00</td>
<td>Grinders: Protecting Pump and Valves – <em>Troy Heimerl</em></td>
</tr>
<tr>
<td>11:00</td>
<td>Arc Flash Safety, Solutions for Water/Wastewater – <em>Dave Block</em></td>
</tr>
</tbody>
</table>

### New Technologies & the Problems They Solved  
**Arbor Lakes**  
**Developer: Steve McCuskey**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>New Technologies for On-Line Analytical Work – <em>Mike Savelli</em></td>
</tr>
<tr>
<td>9:35</td>
<td>New Technologies Used in Utility Locates – <em>Joe Rubbelke</em></td>
</tr>
<tr>
<td>10:10</td>
<td>New Radar and Pressure Instruments for Multiple Applications – <em>Steve McCuskey</em></td>
</tr>
<tr>
<td>10:45</td>
<td>Opworks and How It’s Solving Problems in the Control Room – <em>Scott Schaefer</em></td>
</tr>
<tr>
<td>11:20</td>
<td>Odor and Corrosion Control – <em>Mark Oberhelman</em></td>
</tr>
</tbody>
</table>
Wednesday morning

Workplace/Personnel Strategies

Developer: Tim Gratke

9:00 Finding the Next Public Servants, What Do the Data Tell Us? – Luke Greiner
9:40 Hutchinson TigerPath Academies: Promoting Skilled Trades in High Schools – Andrea Moore
10:45 Financing Options for Workplace Internships – Melanie Schroeder
11:00 Industry Recruitment – Wade Klingsporn
11:30 Wipes Clog Pipes! – Hutchinson WWTF Continued Fight Against Flushables – Tim Gratke

Combating Climate Change

Developer: Jennifer Thoreson, Chris Harrington

9:00 MPCA’s Climate Change Efforts – Aaron Luckstein
10:00 Duluth Historical Wet Weather – Todd Carlson
10:45 Combating Wet Weather – Bridget Osborn
11:20 Reaching Net Zero – Patrick Smith, Lindsay Anderson

12:00 – Lunch

Reminder –

Please share your comments and feedback about the 2020 conference on-line. You may use a computer or your mobile device to access the conference evaluation at this link www.tinyurl.com/2020MPCA

The survey is brief and your feedback helps focus on your wants and needs for the coming year. There are two laptop computers near the registration booth if you’d like to complete your evaluation there. You can also obtain a paper copy at the registration desk if you would prefer to submit comments that way. Thanks for your help to make this conference better!
Vendor/Professional Organization Displays  
Northland Ballroom

Developer: Annaliza Heesch, Jean Evers

12:30-4:30 An opportunity to discuss products and meet with industries vendors; drawing for prizes. Refreshments will be available inside the Ballroom.

Exhibitors as of 2/27/20:

- ABM Equipment and Supply
- AE2S
- Alden Pool
- Apex Engineering Group
- A.W. Research Laboratories, Inc.
- Bolton & Menk, Inc.
- Core & Main
- DGR Engineering
- D & H Field Services
- Dukes Root Control, Inc.
- Electric Pump
- Ess Brothers and Son’s, Inc.
- Flexible Pipe Tool Company
- General Repair
- Great Northern Environmental
- Hach Company
- Hawkins, Inc.
- Hose Pros, LLC
- HR Green, Inc.
- Kodiak Power Systems
- Local 49
- Master Electric
- MRWA
- MVTL
- Public Works Sales Holding
- Quality Flow Systems, Inc.
- R & H Painting, LLC
- Team Lab Chemical
- Tech Sales Company
- Telemetry and Process Controls, Inc.
- Thul Specialty Contracting
- TNEMEC
- Treatment Resources
- Tri-State Pump & Control Inc.
- UC Lab
- VEGA
- Visu-Sewer, Inc.
- Waterbalance and Operation, LLC
- WSB & Associates
- W.W. Goetsch Associates

Meet & Greet w/MPCA Staff  
Northland Hallway

1:30 – 3:30 pm An opportunity to meet MPCA staff assigned to your region and put a face to a name, in an informal setting.

2:30 – Conference adjourns
Developers/Planners

Anderson, Ray – General Repair
Berger, Don – MPCA St. Paul
Christensen, Paul – PeopleService
Craft, Angie – MCES
Finch, Tracy – MPCA St. Paul
Forsythe, Steven – Electric Pump
Friel, John – SEH
Gillingham, Brad – MPCA Marshall
Haig, Nick – MPCA St. Paul
Harrington, Christopher – HR Green
Heesch, Annaliza – MPCA St. Paul
Janes, Kelley – AE2S
Kaszynski, Carol – MCES
Kilpo, Aaron – MPCA St. Paul
Kranz, Rachel – Foth Infrastructure & Env.
Logelin, Jaramie – MPCA Duluth
MacPherson, Pete – MN Pump Works
McCuskey, Steve – VEGA
Meyer, Stan – General Repair
Posteuca, Gabe – MPCA St. Paul
Rodewald, Pam – MPCA Mankato
Rotz, Matt – MPCA St. Paul
Rubbelke, Joe – Utility Logic
Schoon, Eric – City of Bloomington
Selvog, John – Electric Pump
Simons, Dave – MCES
Stelmacher, Todd – Visu-Sewer
Thoreson, Jennifer – MPCA St. Paul
Tracy, Bert – MCES
Weikert, Marc – MPCA St. Paul
Yitbarek, Fasil – SEH
Speakers

Ahlers, Justin – City of Lismore
Alaspa, Steve – General Repair
Almgren, Jerry – Centerpoint Energy
Anderson, Lindsay – U of M
Anderson, Ray – General Repair
Argueta, Luis – PERA
Bauer, Johnnes – Saertex
Benton, Joel – MCES
Bernier, Robert – League of Minnesota Cities
Block, Dave – Electric Pump
Blumenfeld, Kenny, Ph.D. – DNR
Carlson, Todd – City of Duluth
Cossalter, Spencer – SEH
Dale, Jeff – MRWA
Daniels, Peter – Wenck Associates, Inc.
Dillon, Chris – JC Dillon, Inc.
Dimitracopoulos, Costa – MCES
Draeger, Jason – MN Pump Works
Dustrud, Stephanie Dr. – S. Dustrud Coaching & Consulting
Ferrazzo, Silvano – Zurn Green Turtle
Gage, Michelle – MnTAP
Gammon, Charlie – Brainerd Public Utilities
Goddard, Derek – City of Golden Valley
Goddard, Lisa – City of Minneapolis Public Works
Goguen, Claude – NPCA
Gratke, Tim – City of Hutchinson
Greiner, Luke – Dept of Employment and Economic Development
Grubb, Kellen – AE2S
Haller, Joe – Annandale/Maple Lake/Howard Lake Wastewater Commission
Hedin, Jessica – SEH
Heimerl, Troy – JWC Environmental
Hoeschen, Paul – MRWA
Hudalla, Paul – City of Minneapolis Public Works
Hugelback, Mark – MPCA Rochester
Hutton, Dave – SEH
Speakers

Janes, P.E. Colton – AE2S
Janes, Kelley – AE2S
Johnson, Bill – Foth Infrastructure & Environment
Kieffer, Tim – City of Golden Valley
Kilanowski, Doug – Mueller Water Products
Klabo, Justin – AE2S
Klingsporn, Wade – Vermilion Community College
Kranz, Rachel – Foth Infrastructure & Environment
Krukowski, Michael – MN State Patrol
Kubasch, Chad – Minnesota Pump Works
Lane, David – City of Rochester
Libby, Jonathan – TKDA
Luckstein, Aaron – MPCA Rochester
Lund, Tracy – MN Dept of Health
MacPherson, Pete – MN Pump Works
Malakowsky, Cathy – MPCA Rochester
Martig, Ben – City of Northfield
Mayasics, Joseph M. Dr. – WLSSD
McCuskey, Steve – VEGA
Mendiola, P.E. Mike – MN Office of Pipeline Safety
Meyer, Justin – MN Dept of Public Safety
Meyer, Stan – General Repair
Miller, DeAnn – League of Minnesota Cities
Mol, Kathryn – MCES
Monroe Kiefer, Mike Dr. – Powermind Systems, Inc.
Moore, Andrea – Hutchinson Schools
Mustonen, Kevin – MPCA Duluth
O’Connor, Tom – MCES
Oberhelman, Mark – Hawkins Chemical
Olinger, Steve – Centerpoint Energy
Osborn, Bridget – HR Green
Ostgulen, Tony – Insituform Technologies, USA, LLC
Pittman, Anthony – AE2S
Ray, Mark – City of Crystal
Reardon, Jeannie – MCES
Richter, Dereck – MN Dept of Health
Rubbelke, Joe – Utility Logic
Rudolph, Brian – Social Security Administration
Salber, Jason – AE2S
Savelli, Mike – Hach Company
Schaefer, Kathleen – MnDOT
Schaefer, P.E. Scott – AE2S
Scheffler, Ellen – City of Faribault
Schlangen, Travis – City of Bloomington
Schreader, Amy – UC Labs
Schroeder, Melanie – Central Minnesota Jobs & Training Services, Inc.
Schwarz, Jeff – MCES
Schweiss, Brian – MPCA St. Paul
Sierzega, John – Sherwin-Williams
Simons, Dave – MCES
Smith, Patrick – U of M
Soland, Kirk – MSRS
Stelmacher, Todd – Visu-Sewer
Stuemke, Frank – MRWA
Tracy, Bert – MCES
Trott, Karl – Plug Technologies, Inc.
Tuel, Michael – Vapex Environmental
Villari, Mike – MCES
Winkler, Andy – Wieser Concrete
Maps