



Northeast Wisconsin Stormwater Consortium

Filtration Systems Workshop Thurs. Dec 6th, 2018 (8am - 3pm)

Workshop Agenda



8:00 – 8:30am	Registration						
8:30 – 8:45am	Welcome & IntroductionJeff Mazanec – raSmith, Inc						
8:45 – 8:50am	Why are we here?Pete Neuberger: <i>Project Engineer, City of Appleton Department of Public Works</i>						
8:50 – 9:05am	Overview of State Regulations for Filtration Systems <i>Amy Minser: Stormwater Engineer, Wisconsin Department of Natural Resources</i>						
9:05 – 9:35am	Technical Standard 1002: Site Evaluation for Infiltration <i>Jan Kucher: Water Resources Engineer, Wisconsin Department of Natural Resources</i> - Guidance on considering an Infiltration System)						
9:35 – 10:15am	Site Considerations & Systems Design <i>Gary Raasch: Senior Water Resources Project Manager, raSmith</i> <i>Amy Minser: Stormwater Engineer, Wisconsin Department of Natural Resources</i> - Airport Overlay Districts, Shallow Groundwater, Shallow Soils/Bedrock, Size, Costs - System Options, Proprietary vs non-Proprietary, Water Quality & Quantity, Lifecycle Costs & other cost factors						
10:15 – 10:30am	Break & Refreshments						
10:30 – 10:45am	Morning Topics....Q & A Session						
10:45 – 12:15pm	Non-Proprietary Devices - Panel Discussion <i>Gary Raasch: Senior Water Resources Project Manager, raSmith</i> <i>Amy Minser: Stormwater Engineer, Wisconsin Department of Natural Resources</i> <i>Tom Duffey: Horticulturalist, City of Appleton</i> <i>Pete Neuberger: Project Engineer, City of Appleton Department of Public Works</i> - Overview, Design, Installation/Construction, Inspections/Maintenance, Case Studies, Problems, Solutions & Costs for Technical Standards: <table border="0" style="margin-left: 40px;"> <tr> <td>1004-Bioretention for Infiltration</td> <td>1007-Infiltration Trench</td> </tr> <tr> <td>1003-Infiltration Basins</td> <td>1008-Permeable/Porous Systems</td> </tr> <tr> <td>1005-Vegetated Swales & Filtration Strips</td> <td>100?-Raingardens</td> </tr> </table>	1004-Bioretention for Infiltration	1007-Infiltration Trench	1003-Infiltration Basins	1008-Permeable/Porous Systems	1005-Vegetated Swales & Filtration Strips	100?-Raingardens
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- 12:15 – 1:00pm **Lunch (Provided)**
- 1:00 – 1:35pm **Proprietary Devices: ADS Pipe & Hydro-International**
Jake Brunoehler - Regional Engineer
 - Stormtech Chambers, Upflow Filters, Inlet Filters
- 1:35 – 1:45pm **Changeover Break**
- 1:45 – 2:20pm **Proprietary Devices: Contech Engineered Solutions**
Kevin Klein-Stormwater Consultant
 - Stormfilter, Jellyfish Filter, Filterra Filter & More
- 2:20 – 2:30pm **Break**
- 2:30 – 3:00pm **Proprietary Devices Q & A Panel Discussion**
Jake Brunoehler, Keith Johnson & Kevin Klein
- 3:00 – 3:05pm **Workshop Wrap-up**

Speakers & Presenters

Jeff Mazanec, raSmith

Pete Neuberger, City of Appleton

Amy Minser, Wisconsin Department of Natural Resources

Jan Kucher, Wisconsin Department of Natural Resources

Gary Raasch, raSmith

Tom Duffey, City of Appleton

Jake Brunoehler, ADS Pipe

Kevin Klein, Contech Engineered Solutions

Workshop Planning Team

NEWSC Municipal Committee Members:

Jeff Mazanec - Chair (raSmith)

John Neumeier (City of Kaukauna)

Karen Heyrman (Town of Grand Chute)

Bob Schmeichel (Town of Neenah)

Matt Smits (City of Manitowoc)

Scott Ahl (City of Two Rivers)

Chris Pagels (Town of Greenville)

Thank You Workshop Partners!

