

86th Annual Fall Water School for Water & Wastewater Operators & Managers

Sponsored by: Montana Environmental Training Center
Montana Department of Environmental Quality

MSU - College of Engineering
Montana Water Center

October 8 - 10, 2019 - Montana State University - Bozeman

CONTINUING EDUCATION CREDIT REPORT FORM FOR WATER & WASTEWATER OPERATORS

Complete, Sign and Return to the Registration Table:

Operator Number: _____ Type & Classification: _____ System Operated: _____

OR

Well Driller Number: _____ Name of Well Drilling Company: _____

NAME:

ADDRESS:

PHONE:

STATE:

ZIP:

SIGNATURE:

(To receive credit you MUST have stamped verification at the end of each session attended.)

CEC INFORMATION: (Training Provider Completes)

TOTAL Credits Earned: Water _____ Wastewater _____

Approved Training Provider: Montana Environmental Training Center

ATP: #2

Signature of Verifying Official: _____

**Each Session Except Breaks & Vendor Show Must Be Stamped in Order to Receive Credit
To Get Credit for Breaks You Must Attend Sessions Right Before and After Each Break**
(Please note: NO CECs will be given for the Certification Review Sessions.)

TUESDAY ~ October 8, 2019

7:00 AM	Registration				
8:00 AM	Welcome to the 86th Annual Fall School Gretchen Rupp - MSU Civil Engineering, Wyatt Cross - Montana Water Center, Greg Butts - DEQ PWS, Pete Boettcher - DEQ WW, & Rory Schmidt - METC 0.025 Dual CECs				
8:15 AM	Ballroom A		Ballroom D		
	Changes to the Operator Certification Program Greg Olsen & Jon Dilliard, Montana Department of Environmental Quality Mod: Karl Carlson 0.100 Dual CECs		Certification Review How to Take a Certification Exam Reta Therriault, DEQ All Water and Wastewater Classes No CECs		
9:15 AM	2018 Infrastructure Report Card Shari Eslinger, Montana Section President, ASCE Mod: Karl Carlson 0.100 Dual CECs		Water Ballroom D	Wastewater - All Classes Room 235	
			Source Water Scott Patterson, DEQ No CECs	Mechanical Plants DEQ Staff All Classes 1-4 No CECs	
10:15 AM	BREAK - Must have sessions stamped right before and after the break to get credit for the break! 0.025 Dual CECs				
10:30 AM	Why We Worry about Water - Waterborne Outbreaks, A Public Health Perspective Nina Heinzinger & Rachel Hinnenkamp, Montana Department of Public Health & Human Services Mod: Rebecca Landewe 0.150 Dual CECs		Source Water - Continued Scott Patterson, DEQ No CECs	Mechanical Plants - Cont'd DEQ Staff No CECs	
12:00 PM	LUNCH - ON YOUR OWN				
1:00 PM	Wastewater - Room 233	Water - Ballroom C	W & WW - Ballroom B	Treatment	Wastewater Operation & Maintenance
	"Who's in Control" - Lift Station Control Panel Maintenance & Troubleshooting Troy Hertog, PRIMEX Mod: Michelle Pond 0.100 WW CECs	Emergencies & Security of Public Water Supplies in Montana Kirk Yoder, DEQ Mod: Rebecca Landewe 0.100 Water CECs	Ecohydraulics and Fish Passage Engineering at Montana State University Dr. Katey Plymesser Mod: Steve Shope 0.100 Dual CECs		
2:00 PM	Public Health & Onsite Wastewater Systems - the Good, the Bad & the Ugly Nina Heinzinger & Rachel Hinnenkamp, MT DPHHS Mod: Tammy Jacobson 0.100 WW CECs	Gallatin Local Water Quality District's "Water Quality Interactive Mapper" Christine Sundnas & Tory Haraldson, GLWQD Mod: Rebecca Landewe 0.100 Water CECs	SCADA Systems - Preventing Sabotage Chuck Wambeke, ECI Mod: Steve Shope 0.100 Dual CECs		
				Katie Luther, DEQ No CECs	DEQ Staff No CECs
3:00 PM	BREAK - Must have sessions stamped right before and after the break to get credit for the break! 0.025 Dual CECs				
3:15 PM	Operation Considerations in Design of the Big Sky WRRF MBR Brian Viall, Operations Manager AE2S Mod: Jodi Stoner Granberg 0.075 WW CECs	Chemical Waiver Program Overview & Proposed Changes and Update on DEQ's Reminder Services Scott Patterson, DEQ Mod: Michelle Pond 0.075 Water CECs	Temperature effects on iconic Madison River Salmonflies Lindsey Albertson, MSU-Bozeman Mod: Karl Carlson 0.075 Dual CECs	Security, Safety & Administration	Troubleshooting Wastewater Treatment Plants
	4:00 PM	Benefits of Brewery Waste Experiments at the Havre Wastewater Treatment Plant Drue Newfield, City of Havre & Brian Viall, AE2S Mod: Jodi Stoner Granberg 0.100 WW CECs	Membrane Plant from Piloting to Operations Jill Miller, City of Bozeman Mod: Tammy Jacobson 0.100 Water CECs	Farm Soil Management for Source Water Protection Adam Sigler, MSU Extension Mod: Karl Carlson 0.100 Dual CECs	Kirk Yoder, DEQ No CECs
5:00 PM	Adjourn				

WEDNESDAY ~ October 9, 2019

TIME	Wastewater Room 233	Water Ballroom C	Water & Wastewater Ballroom B	Cert Review Water Ballroom D	Cert Review WW - All Classes Room 235	
8:00 AM	Sampling Techniques for Compliance & Process Control Lisa-kay Keen, DEQ Mod: Steve Shope 0.100 WW CECs	Municipal Water Conservation - a Source of New Supply Jessica Ahlstrom, City of Bozeman Mod: Tammy Jacobson 0.100 Water CECs	The NEW DEQ Webpage and "Where to find your Forms!" Elizabeth Murray Henrikson, DEQ Mod: Michelle Pond 0.100 Dual CECs	Classes 1 - 4 Practice Test	Disinfection	
9:00 AM	FACTS: Montana DEQ's Water Discharge Permitting System Abbie Ebert, DEQ Mod: Steve Shope 0.100 WW CECs	Lead in School Drinking Water Jon Dilliard & Myla Kelly, DEQ Mod: Tammy Jacobson 0.100 Water CECs	Colloidal and Truly Dissolved Metals in Wastewater Lagoons and their Removal with Floating Treatment Wetlands Ben Colman, University of Montana Mod: Michelle Pond 0.100 Dual CECs			Karl Carlson, DEQ No CECs
10:00 AM	BREAK - Must have sessions stamped right before and after the break to get credit for the break!					0.025 Dual CECs
10:15 AM	All about Chain of Custody & Laboratory Analytical Forms Lisa-kay Keen, DEQ Mod: Karl Carlson 0.075 WW CECs	Lead in Drinking Water: The Big Picture Gretchen Rupp, MSU Civil Engineering Mod: Jodi Stoner Granberg 0.075 Water CECs	Increasing Capacity Using the Resort Tax and Build out to a Fixed Base Water Meter Reading System Ron Edwards, Big Sky Co W&S District #363 Mod: Rebecca Landewe 0.075 Dual CECs	Equipment Operation & Maintenance	Sludge Disposal	
11:00 AM	Understanding Your MPDES Permit Renewal	Lead and Copper; What is Next?	"Greening" of the Gallatin River & Update on the Gallatin River Task Force			DEQ Staff No CECs
11:30 AM	Haley Sir & Joanna McLaughlin, DEQ Mod: Karl Carlson 0.100 WW CECs	Sienna Meredith, EPA - via internet Mod: Jodi Stoner Granberg 0.100 Water CECs	Valerie Bednarski, Gallatin River Task Force Mod: Rebecca Landewe 0.100 Dual CECs	Kirk Yoder, DEQ No CECs	Michele Marsh, DEQ No CECs	
12:00 PM	LUNCH - ON YOUR OWN					
1:00 PM	The Changing World of Pretreatment	Manganese Health Effects & the Proposed Manganese Rule Myla Kelly & Eugene Pizzini, DEQ Mod: Karl Carlson 0.100 Water CECs	Project Funding for W & WW Systems: (W2ASACT) Water, Wastewater & Solid Waste Action Coordinating Team! Anna Miller, DNRC & Steve Troendle USDA/Rural Development Mod: Michelle Pond 0.100 Dual CECs	Laboratory Analysis	Wastewater Math Continued	
2:00 PM		Arsenic in Water Ken Crisp, Crisp Water Technologies Mod: Karl Carlson 0.100 Water CECs	Capital Improvement Planning for Small Systems Brian Bohnsack, WSU Environmental Finance Center Mod: Michelle Pond 0.100 Dual CECs			Tammy Jacobson, DEQ No CECs
3:00 PM	BREAK - Must have sessions stamped right before and after the break to get credit for the break!					0.025 Dual CECs
3:15 PM	Lagoon Management Rick Allen, BioLynceus Mod: Steve Shope 0.075 WW CECs	City of Bozeman Water Plant Tour	Workforce Planning: How to Attract & Retain Talent at Your System Tonya Bronleewe, WSU Environmental Finance Center Mod: Tammy Jacobson 0.075 Dual CECs	Water Math	Laboratory Analysis	
4:00 PM	Collection System Strategies Rick Allen, BioLynceus Mod: Steve Shope 0.100 WW CECs		Introduction to Asset Management for Small Systems Brian Bohnsack, WSU Environmental Finance Center Mod: Tammy Jacobson 0.100 Dual CECs			Karl Carlson, DEQ No CECs
5:00 PM	Adjourn					

THURSDAY ~ October 10, 2019

TIME	Wastewater Room 233	Water Ballroom C	Water & Wastewater Ballroom B	Cert Review Water Ballroom D	Cert Review WW Room 235
8:00 AM	City of Bozeman Water Reclamation Facility Tour Josh French, City of Bozeman Mod: Steve Shope 0.200 WW CECs	Interpreting Groundwater Nitrate Levels in the Gallatin Valley Cole Histon, Resource Technologies, Inc. Mod: Rebecca Landewe 0.100 Water CECs	Cla-Val Hydraulic Control Valves - Troubleshooting, Maintenance & Electronics Jeremy Peterson, Pipestone Equipment Mod: Jodi Stoner Granberg 0.100 Dual CECs	Distribution Karl Carlson, DEQ No CECs	Facultative & Aerated Lagoons DEQ Staff No CECs
9:00 AM		A Strategic Approach to Water Loss Reduction Cory Simonson, USA Utility Services Associates Mod: Rebecca Landewe 0.100 Water CECs	Preparing your Utility for Growth and Uncertainty - an "asset management" approach Craig Woolard, MSU-Bozeman Mod: Jodi Stoner Granberg 0.100 Dual CECs		
10:00 AM	BREAK - Must have sessions stamped right before and after the break to get credit for the break! 0.025 Dual CECs				
10:15 AM	"Aerobic Digestion" Brian Viall, Operations Manager AE2S Mod: Rebecca Landewe 0.075 WW CECs	Calibrating pH and Other Water Quality Meters... Tammy Jacobson Mod: Tammy Jacobson 0.075 Water CECs	Status Report, Mr. Data Jac Miller, City of Bozeman Mod: Michelle Pond 0.075 Dual CECs	General Review Karl Carlson, DEQ No CECs	Pumps, Valves & Blowers DEQ Staff No CECs
11:00 AM	EPA's Water Quality Trading Policy - General Overview: by Erik Makus, EPA Helena Office 11:30 to 12:00pm O&M Site Visit Findings - Common Issues: by Terry Campbell, DEQ Mod: Steve Shope 0.100 WW CECs	Tank Mixing: To prevent stagnation, icing & DBP's control. Automated Residual management needs – Mysteries Solved! Craig F. Steve, Regional Manager, Medora Corporation Mod: Tammy Jacobson 0.100 Water CECs	E. coli Contamination of Rivers & Homes (Michelle Pond - MAP, Dr. Mari Eggers - MSU, John Doyle - Little Big Horn College, Keenan Brame - MSU, & Dr Steve Hamner - U Mass Amherst) Mod: Michelle Pond 0.100 Dual CECs		General Review & Questions DEQ Staff No CECs
12:00 PM	LUNCH - ON YOUR OWN				
	Wastewater Room 233	Water Ballrooms C	Water & Wastewater Ballroom B	Water & Wastewater Certification Examinations Ballroom D	
1:00 PM	Stormwater Management in the City of Bozeman Cody Flammond, City of Bozeman Stormwater Technician Mod: Tammy Jacobson 0.100 WW CECs	Basics of Source Water Protection Eric Sivers, DEQ Mod: Jodi Stoner Granberg 0.100 Water CECs	Chemical Feed Storage & Handling David Carlson, Operations Manager AE2S Mod: Steve Shope 0.100 Dual CECs	Certification Examinations Registration: 12:30 PM Exams Administered 1:00 PM	
2:00 PM	Wastewater Biosolids Handling Terry Campbell, DEQ Mod: Tammy Jacobson 0.100 WW CECs	Understanding Your Source Water Delineation & Assessment Report Carolyn DeMartino, DEQ Mod: Jodi Stoner Granberg 0.100 Water CECs	Montana's Dig Law & Safe Digging Nick Pericich, City of Bozeman Mod: Steve Shope 0.100 Dual CECs		
3:00 PM	BREAK - Must have sessions stamped right before and after the break to get credit for the break! 0.025 Dual CECs				
	Water & Wastewater Ballroom B				
3:15 PM	The Future of Water and Wastewater Treatment in Montana - "Panel Discussion on Where Is Your Community Going and What are the Long Term Challenges Your Community face in terms of Water & Wastewater Planning?" City of Bozeman: John Alston Big Sky County Water & Sewer District No. 363: Ron Edwards				
4:00 PM	City of Billings: Jason Fladland City of Townsend: Tim Rauser Mod: Gretchen Rupp 0.175 Dual CECs				
5:00 PM	86th Annual Fall Water School Adjourned				