Missouri Water Environment Association
Fall Laboratory Workshop
September 11, 2025
Location: MPUA, 2200 Maguire Blvd, Columbia, MO 65201

8:00am - 9:00pm	**"Phosphorous: Role and Analysis in Wastewater Treatment"**	*Zach Wilson* *City of Springfield, MO* *Organic Chemist* *zach.wilson@springfieldmo.gov*
9:00am - 10:00am	**"Sampling Procedures to Ensure Defensible Data"**	*Elisa Edge* *KimHEC* *Pretreatment Consultant* Elisa.Edge@kimhec.com
10:00am - 10:15am	**BREAK**	
10:15am - 10:45am	**"Laboratory Solids Analysis (SM 2540)"**	*Jacob Schwoerer* *City of Jefferson, MO* *Laboratory and Pretreatment Supervisor* *jschwoerer@jeffersoncitymo.gov*
10:45am - 11:15pm	**"Automating BOD, COD, and TKN with One Instrument"**	Keith Long Shimadzu Atomic Spectroscopy Team klong@shimadzu.com
11:15 – 12:15	**"Laboratory Ethics"**	*Ian McBride* *Kansas City Water* *Senior Chemist* *Ian.McBride@kcmo.org*
12:15pm - 1:15pm	**LUNCH BREAK – Catered Lunch**	
1:15pm - 1:45pm	**"What to Look for When Selecting a Contract Lab"**	*Jessica Jensen* *Kansas City Water* *Operations Officer* Jessica.Jensen@kcmo.org
1:45pm-2:15pm	**"Small WW Lab QA/QC"**	*Lucas Grothoff* *City of Jefferson, MO* *Laboratory Analyst* *lgrothoff@jeffersoncitymo.gov*
2:15pm-2:30pm	**BREAK**	
2:30pm-3:30pm	**"I SPY: Filamentous Edition"**	*Emily Lute* *City of Moberly* *Chief Wastewater Operator* *elute@cityofmoberly.org*
3:30-4:30pm	**"How to Read Your NPDES Permit"**	Ashley Grupe MDNR Operating Permits Section Manager Ashley.Grupe@dnr.mo.gov
4:30pm	**Sign MO-DNR & MWEA LPC Rooster** **Complete Survey**	