

12:30 p.m. Depart Community Center

1:00 p.m. **Arrive at 2nd Stop – Moore’s Property: Tour Siphon Dose System with demonstration**

The site visit will include a descriptive explanation of the siphon dosed LPP on-site wastewater treatment system. The system is designed for 240 gallons of maximum daily flow. The septic tank is a 1,000 gallon capacity along with a 500 gallon dosing tank. The siphon used is a model 212 by Fluid Dynamics Inc. The absorption field is 4 LLP lines 60 feet long, 12 inches deep by 12 inches wide. The diameter of the lateral lines is 1.5 inch SCH 40 PVC with 5/32 orifices at 5 foot spacing bedded in 1 to 1.5 inch lateral rock. The supply line from the dosing chamber to the field is 2 inch SCH 40 PVC.

The soils had somewhat slower permeability in the lower horizons due to higher clay content thus requiring a LPP dosed system. An interceptor drain was placed upslope to divert subsurface ground water above the absorption field.

The siphon was able to exceed the projected head pressure of 3 feet. At inspection time each line had approximately 4 feet of head pressure. The only notable difference at inspection being that the draw down was gradual rather than abrupt as with a pump system. Follow up field checks have shown the system to be functioning properly without any failure. A demonstration of the siphon will also be included in the field trip to show the head pressure via manometers at the distal end of the absorption lines.

2:15 p.m. Depart Moore’s Property

2:45 p.m. **Arrive at 3rd Stop – Missouri OWTS Training Center**

The OWTC, located adjacent to the Watershed Center, serves as an outdoor classroom for wastewater installers. This facility showcases several alternative onsite septic systems, as well as innovative stormwater techniques. Failing septic systems have been shown to contaminate surface and groundwater resources, including wells used for drinking water. Community outreach projects included workshops, onsite rehabilitation and on-site coupons that will cost-share for maintenance. A cost share project provided a landowner enough incentive to work with the Watershed Committee to replace a failing system that was surface discharging directly into the Little Sac.

4:00 p.m. Depart Training Center for hotel

4:30 p.m. **Arrive back at University Plaza Hotel**

Note: *Itinerary and times subject to change. All attendees are expected to ride the bus transportation provided. No private vehicles are allowed on the field trip tour.*