WSDOT Research Results Webinar

Please join us for the latest in WSDOT’s Research & Library Services bimonthly Research Results Webinars.


When: 10:30—11:30 a.m., July 25, 2018.

Who: Participation is open to any WSDOT employee, with supervisor’s approval. If you know someone outside of WSDOT who might be interested in this topic, feel free to share this announcement. All who are interested in this topic are welcome.

How: Please register at: https://attendee.gotowebinar.com/register/8558636285248585729

After registering, you will receive a confirmation email containing information about joining the webinar.

Those who are interested but cannot make the live webinar are still encouraged to register. All who register will receive a link to a recording of the webinar.

About this webinar

This month’s webinar presents research into new methods for estimating the hydraulic conductivity of soils in compacted embankments as well as soils not subjected to compaction. Natural and engineered sloped vegetated areas, typically on or immediately adjacent to the highway embankment, are designed to receive highway runoff for the purpose of runoff treatment and flow control. The Highway Runoff Manual design criteria require knowledge of the saturated hydraulic conductivity (Ksat) to estimate the dispersion area. Accurate and cost-effective methods of estimating Ksat allows embankment side slopes and natural dispersion areas to be designed at the optimal size, potentially lowering costs and maximizing ecological benefit.
About the presenters

Tony Allen PE | State Geotechnical Engineer, WSDOT

Upon graduation from OSU in 1983, Tony began his career working for a geotechnical consultant in Corvallis, OR, and shortly thereafter moved to Washington to work for WSDOT. Tony has worked in the WSDOT Geotechnical Office for the past 35 years, initially as a geotechnical staff engineer, but quickly moving up to the chief foundation engineer position. Tony took over as the State Geotechnical Engineer in 1993. In his role as the State Geotechnical Engineer, Tony develops and carries out the geotechnical engineering program statewide for WSDOT, establishing geotechnical policy for WSDOT, and functioning as the principal in charge for all WSDOT geotechnical designs, and construction support. With regard to infiltration design, Tony was one of the writers of the infiltration sections in the DOE Stormwater Manual for western Washington and the WSDOT Highway Runoff Manual.

Alex Nguyen PE | Highway Runoff Program Manager, WSDOT

Alex Nguyen has been with the Washington State Department of Transportation for 20 years. He started out doing general transportation design work but moved into the exciting world of stormwater. His current duties as the Highway Runoff Program Manager include writing stormwater and hydraulics policies for WSDOT and managing the updates to the WSDOT Highway Runoff Manual. He is also the point person for WSDOT’s stormwater research and stormwater and hydraulics training.

About Webinar Wednesdays

WSDOT’s Research & Library Services Office hosts Webinar Wednesdays, a series of bimonthly, one-hour webinars. Each webinar showcases a research project with results that could eventually be implemented around the state.

Webinar topics include: highway lighting, innovative bridge design and construction, underwater noise mitigation, pollinator habitats, connected and autonomous vehicle technology, and others.