

2020 Online Tile Drainage Design & Water Management Workshop



PREREGISTRATION REQUIRED

Register for one or two days

Register Free: <https://www.wq.illinois.edu/ws2020>



Interactive sessions involve the use of QGIS

The latest long-term stable release can be downloaded free:

<https://qgis.org/en/site/forusers/download.html>

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Tuesday, August 4th 8:30am – 1:00 pm

Creating Drainage Maps with Public Domain Applications
(Essential for participants without prior QGIS experience)

Coordinate Reference Systems

Latitude/Longitude, UTM, State Plane Coordinates*

Google Earth, SoilWeb*

Introduction to QGIS, QGIS Print Layout 3D Mapping in QGIS*

Wednesday, August 5th 8:30am – 5:15 pm

Subsurface (Tile) Drainage Design

**INTRODUCTORY
DRAINAGE DESIGN**

**ADVANCED
DRAINAGE DESIGN**

Surveying Basics *
Calculating Lengths and Slopes*

Illinois LiDAR data *
LiDAR Resampling*
Creating Contour Lines*

Water Quality (Bioreactors)

Soil Properties*
Drainage Coefficient*
Lateral Depth and Spacing*

Watershed Delineation*
Watershed-scale Topo map creation*

Drainage Law

Sizing Mains*
System Layout*

Sizing Control Zones, Lay Lines, Illinois
Drainage Water Management Plan*

Water Quality (Saturated Buffers)

Proper Installation Procedure

* Hands-on (interactive) sessions

Presentations & example datasets available for download on July 21st