About the TALK: Abstract: With ever-increasing regulatory requirements the Sustainable Groundwater Management Program (SGMA), and Central Valley Salinity Alternatives for Long-term Sustainability (CV-SALTS) on production agricultural systems, accurate, timely, and comprehensive base layer data are required. Land IQ has developed a statewide land use mapping program for the California Department of Water Resources (DWR) that implements comprehensive ground truthing efforts for calibrating and validating remotely sensed models for the ultimate classification of all agricultural fields in California. Land IQ integrates its agricultural land use mapping, other lines of evidence, and robust ground truthing (i.e. multiple climate stations) to again calibrate and validate remotely sensed crop consumptive use models. The purpose of this presentation is to introduce the importance of comprehensive ground truthing to ensure accuracy for both the remotely sensed agricultural land use mapping and crop consumed water estimates.

About the SPEAKER: Dr. Kimmelshue is a founding partner and Principal Soil & Agricultural Scientist with Land IQ. He holds a Ph.D. in Soil Science with a concentration in Water Resources from North Carolina State University in addition to his certification as a Professional Soil Scientist (CPSS). He has over 22 years of consulting experience focusing on practical and applied solutions for the development and management of agricultural-based soil/water/plant systems, especially irrigated systems.