

TIMOTHY DENISON

Environmental Scientist



tdenison@johnsoneng.com
239.461.2458

Years Experience

23 years

Education/Training

B.S. Physics Engineering (1996),
University of Central Oklahoma

FDEP SOP water quality sampling
for ground, surface, & wastewater

USEPA ultra-trace
metals sampling techniques

WERC water quality

SFWMD water use
accounting calibration
flow monitoring

ASTM International Environmental
Site Assessment Standards

Professional Affiliations

Water Environment Federation

Florida Stormwater Association

Florida Society of
Environmental Analysts

Tim joined Johnson Engineering in 2003 as an environmental scientist. He currently manages water quality monitoring projects for our water resources group. Tim has developed project specific water quality monitoring programs for several of our clients including Florida Department of Transportation (FDOT), Lee County Natural Resources, Collier County Stormwater, Hendry County, Lee County Port Authority (LCPA), and City of Bonita Springs. His current projects involve testing best management practices (BMPs), total maximum daily load (TMDL) monitoring, stormwater runoff characterization, flow monitoring, and calculating pollutant load reductions. Tim is proficient in Florida Department of Environmental (FDEP) Standard Operating Procedures (SOP) for surface water/groundwater sampling, is active in the Florida Stormwater Association (FSA), and has presented project findings at a variety of stormwater conferences. He has also been published in *Florida Scientist*. In addition, he has completed the Environmental Site Assessment Standards for Commercial Real Estate course and has 5 years of experience providing Phase I and Phase II ESA services for our clients

Relevant Projects:

- ↪ **City of Bonita Springs TMDL Monitoring** - A comprehensive water quality monitoring program was developed and implemented to evaluate surface water discharge impacts to sensitive Water Body Identifications (WBIDs) such as Spring Creek and Imperial River. The program has been expanded recently to provide additional sampling locations as part of the Basin Management Action Plan (BMAP) to evaluate progress toward the Total Maximum Daily Load (TMDL) assigned to Imperial River.
- ↪ **City of Sanibel NPDES Sampling** - Monthly water quality grab samples and field instrument measurements are collected along the Sanibel River in support of the National Pollutant Discharge Elimination (NPDES) permit.
- ↪ **Sarasota County** – Performed Phase I and Phase II ESAs on properties formerly used by water treatment facilities; services included soil/water quality sampling, review of laboratory sample analysis, and comparison of concentrations to FDEP Surface Water and Groundwater Cleanup Target Levels (CH 62-777 SWCTL & GWCTL).
- ↪ **Freedom Water Quality Park Evaluation** - Monthly water quality samples are collected along with continuous water levels and flows to determine the benefit of pollutant load reduction to Gordon River, an impaired water body which has been assigned a TMDL. A chain of constructed and natural wetlands is used to improve water quality and restore hydrology. The site has also been outfitted with continuous recording water level dataloggers, flowmeters, and conductivity sensors. Data is monitored and downloaded remotely to optimize pump use and hydrologic conditions.
- ↪ **FDOT District One Water Quality Characterization** - Water quality evaluation of stormwater runoff was conducted along several state roadways with various levels of service. Automated, refrigerated, programmable samplers, as well as water level dataloggers and rainfall collection sensors were installed to determine runoff concentrations and treatment pond pollutant load removal efficiency. The data was incorporated into the Statewide Stormwater Rule and resulted in reduction of nutrient runoff concentration values for specific road use.
- ↪ **Naples Elks Lodge** – Screened soil samples for presence of petroleum during field installation of temporary monitor wells while conducting Phase II ESA.
- ↪ **Ten Mile Filter Marsh Pollutant Load Reduction** – Automated samplers, rain gauges, flowmeters and water level dataloggers were installed to provide continuous monitoring of this water quality treatment BMP project. The data is evaluated to determine the pollutant removal efficiency of the overall system.
- ↪ **Sarasota County Microbial Source Tracking** – A water quality monitoring plan was developed to assist in determining sources of bacteria contamination within the Phillippi Creek basin. Water quality samples are collected along tributaries near areas previously identified as “hot spots” for fecal coliform. The samples are tested for DNA and personal products associated with human use as well as for common microbiological indicators.