

Samantha Schreiner, EIT

Education

BS, Environmental Engineering,
University of Florida, Gainesville

MS, Environmental Engineering,
University of Florida, Global
Campus (in-process)

Professional Registrations

Engineer in Training, No.
92204EI

Professional Experience

Ms. Schreiner is an Engineer-in-Training with environmental engineering experience focused on water and wastewater treatment systems, distribution system modeling, and water resources planning. Her graduate studies focused on hydrology, ecological systems, wetland treatment, and restoration. Her academic projects provided her experience with drinking water treatment design and natural treatment systems for decentralized wastewater treatment in rural communities.

Representative Projects

Otay Water District, As-Needed Hydraulic Modeling Services, Spring Valley, CA. Staff Engineer. Provide as-needed services for computerized hydraulic models to manage the District's potable water distribution, recycled water distribution, and wastewater collection pipe networks. Modeling services will optimize current operations, evaluate potential improvement projects, and allow for planning of future developments.

Big Bear City Community Services District, On-Call Engineering and Construction Management Services, Big Bear City, CA. Staff Engineer. Big Bear City Community Services District is responsible for providing domestic water, sewer, solid waste collection, street lighting, and fire protection service to areas within the Big Bear Valley. Responsibilities as on-call engineer include serving as a technical advisor for planning, and engineering related issues; develop CIP budgets; prepare UWMPs, and Water and Sewer Master Plans; plan checking; prepare feasibility studies; provide project life cycle support from planning, preliminary design, detailed design, bidding, through construction; recommend annual inflationary connection fee increases; and attend Board meetings and stakeholder meetings.

County of San Luis Obispo, CSA 10A Cayucos Tanks Replacement, San Luis Obispo County, CA. Staff Engineer. Preparing design plans and specifications for the replacement of an aging 210,000 gallon water storage tank. Design includes the addition of a second storage tank of equal size adjacent to the replaced tank. Project involves a water quality impact evaluation to guide the mitigation of potential increases in Disinfected By-Products formation.

Tualatin Valley Water District, Project Management and Support for Finalization of Design Standards, Beaverton, OR. Staff Engineer. Serving as support to Project Manager to finalize design standards and technical specifications for the District. Project enables the District to efficiently communicate the high level of standards for resiliency and cost-effectiveness to engineers and contractors.

Agua Caliente Band of Cahuilla Indians, Mission Hills Well Assessment and Section 24 Alternatives Analysis, Palm Springs, CA. Staff Engineer. Providing well assessment and alternatives analysis for providing water source to Section 24. Evaluating cost and benefit for five alternative scenarios of water supply to the area.

Academic Project Experience

Greywater Treatment Wetland Design, Nicoya WaterKeepers, Santa Teresa, Costa Rica. Graduate Project. Performed site assessment and water usage evaluation for small-scale greywater treatment wetland for a school to improve wastewater discharge and reuse in

a rural, water scarce environment. Developed wetland size using k-C* sizing method, desired treatment efficiency, and literature estimated contaminant loads. Coordinated site development, construction timeline, and cost estimate with client and construction team. Collaborated with university department advisors to generate project proposal and final design documents.

Drinking Water Treatment Design Project, University of Florida, Gainesville, FL.

Senior Project. Team project manager for the capstone design project. Evaluated given site parameters including drinking water sources, water quality, population, and regulations to determine the most effective and efficient drinking water treatment system. Led the team in design of treatment train, sizing, and preparation of final report and presentation.

Professional Endeavors

Water Systems Consulting, Inc.
March 2017 to present

CH2M
June 2015 to August 2015
May 2014 to August 2014