

Rebecca Nissley, EIT

Education

BS, Environmental Engineering,
Penn State

Professional Registrations

Engineer in Training, No.
ET020084

Professional Experience

Ms. Nissley is an Engineer-in-Training with experience in stormwater management and nutrient run off. She has experience in the development of site layouts, plans, and permitting for erosion and sediment control. Her knowledge also includes developing unit processes for wastewater treatment, sludge handling, chemical storage, and hydraulic design.

Representative Projects

Sawmill Well Pumping Plant – Big Bear Lake Department of Water and Power, Big Bear Lake, CA. Engineering Support. Providing design services for a 350 gpm well pumping plant, which includes site improvements and a CMU building. Project includes the design of over 600-ft of 6-inch PVC pipeline to connect the new well to the existing distribution system. Following the design phase, WSC will provide construction management services during well construction.

City of Pismo Beach, Regional Groundwater Sustainability Project, Pismo Beach, CA. Staff Engineer. Providing program management and design engineering services for the development of an Indirect Potable Reuse (IPR) project to recharge the Santa Maria Groundwater Basin. The RGSP will provide additional treatment of the water, including micro/ultra-filtration, reverse osmosis and advanced oxidation, and injection of the advanced purified water into the groundwater basin to maintain groundwater levels and prevent seawater intrusion. Project is being funded by approximately \$30 million in regional, state, and federal funding initiatives.

Camp Roberts, Water System and Wastewater Treatment Facility Evaluation, Staff Engineer. Developing an infrastructure and operational evaluation of Camp Roberts Army Base water production, water distribution system, and wastewater treatment facilities. The Camp Roberts Main Garrison WWTP is in the process of upgrading their facility to achieve compliance with their new wastewater discharge permit requirements. As part of the evaluation, the WWTP upgrade design and construction will also be assessed to ensure that the upgraded facility can achieve compliance with the new permit requirements. The upgrades will consist of retrofitting the existing facility to provide secondary clarification and denitrification abilities.

Northern Cities, Engineering Services. Engineering Support. Provided as-needed engineering services for the City of Arroyo Grande, City of Grover Beach, City of Pismo Beach, and the Oceano Community Services District. Coordinated monthly meetings of the Northern Cities Management Area Technical Group. Interfaced with local and statewide regulatory agencies as an authorized agent of the Northern Cities.

San Luis Obispo County Flood Control and Water Conservation District – Zone 3, Low Reservoir Response Plan. Engineering Support. Developed Low Reservoir Response Plan for Lopez Reservoir. The purpose of the LRRP is to limit downstream releases and municipal diversions from Lopez Reservoir during periods of low reservoir storage (i.e. less than 20,000 AF) to preserve water within the reservoir, above the minimum pool level, for a minimum of 3 to 4 years under continuing drought conditions. Developed a model for Lopez Reservoir to evaluate possible drought scenarios and their potential impact on reservoir storage. Hosted a series of workshops with District Staff, Zone 3 agencies and agriculture representatives to obtain input and gain buy-in for the LRRP.

Pipeline Replacement – Big Bear Lake Department of Water and Power, Big Bear Lake, CA. Project Engineer. Project includes the design and replacement of 4,000 LF of existing 12-inch steel pipe with 12-inch PVC pipe along Big Bear Boulevard and Georgia Street.

Pipeline Replacement – Big Bear City Community Services District, Big Bear City, CA. Project Engineer. The Peter Pan Area portion of this project includes the design and replacement of approximately 8,250 feet of existing 2-inch and 6-inch steel and 4-inch asbestos cement (AC) water mains with new 8-inch pipeline. The Sheridan Drive component of the project includes the design and replacement nearly 450 feet of existing 2-inch steel water mains with new 8-inch pipeline.

Sawmill Well Pumping Plant – Big Bear Lake Department of Water and Power, Big Bear Lake, CA. Engineering Support. Project included the design and construction management services for a 350 gpm pumping plant. Reviewed construction plans for the Sawmill Well Equipping including civil, mechanical, architectural, structural, electrical, and pump discharge pipeline plan and profile drawings.

Sanitary Sewer Modeling - The City of San Luis Obispo, San Luis Obispo, CA. Engineering Support. Developed model to represent existing and future sanitary sewer flows within the City of San Luis Obispo. Utilized spatially allocated sewer model flows and an all-pipes collection system hydraulic model to determine remaining sewer capacity under existing and build-out flows.

Sanitary Sewer Modeling – The City of Santa Maria, Santa Maria, CA. Engineering Support. Utilized the city of Santa Maria’s sewer model and developed a system to calculate average and peak flow velocities. Incorporated calculated velocities into GIS to display the citywide sanitary sewer velocities using a color-coded ranking system.

Well Pad Site Development – Shell Appalachia, Various Locations, PA. Project Designer. Project entails field visits of prospective gas well sites, review of site constraints and permitting issues with the client, site design, erosion and sedimentation control design, preparation of construction plans, and preparation of site of packages. Responsible for the preparation of well pad sign development plans and supporting information for permit applications.

Well Pad Site Development – Cabot Oil and Gas, Various Locations, PA. Designer. Project entails field visits of prospective gas well sites, review of site constrains and permitting issues with the client, site design, erosion and sedimentation control design, preparation of construction plans, and preparation of site bid packages. Responsible for the preparation of well pad site development plans and supporting information for permit applications.

Pipeline Permitting Design – UGI Utilities, Various Locations, PA. Designer. Project entails field visits for constructability review, review of site constraints and permitting issues with the client, erosion and sedimentation control design. Responsible for the preparation of E&S plans.

Highway Occupancy Permitting – Southwestern Energy, Various Locations, PA. Permitting Engineer. Projects entail coordinating and gathering information with clients, creation of permitting plans, and the submission of required documents to the appropriate permitting agencies. Responsible for the permitting of any HOP’s and/or township driveway permits required for the project.

Academic Projects

Professional Endeavors

Water Systems Consulting, Inc.
January 2015 to Present

URS/AECOM
September 2014 – December 2015