

Spencer J. Waterman

Education

B.S., City & Regional Planning,
California Polytechnic State
University, San Luis Obispo

Certifications

American Water Works
Association, California-Nevada
Section, Water Use Efficiency
Practitioner Grade 1, Certificate
1714

Professional Affiliations

American Water Works
Association, Member

Professional Experience

Mr. Waterman is a planner with an emphasis on water resources planning and water use efficiency. His experience includes development of water master plans, wastewater master plans, recycled water master plans, grant funding applications, water use efficiency and conservation services, and state water law compliance documents including Urban Water Management Plans, AB 1420 Self-Certification Statement materials, and California Urban Water Conservation Council Best Management Practices reports. His planning related experience includes urban redevelopment plans, specific plans, general plans, the CEQA process, ordinance writing, and building permit review.

Professional Project Experience

San Miguelito Mutual Water Company, Chevron Tank Farm Service Extension Feasibility Study-Phase 1. Staff Planner. Assessed the capacity of the San Miguelito Mutual Water Company's (SMMWC) water and wastewater systems under current and future conditions, including the inclusion of a proposed development at the Chevron Tank Farm. Developed water and wastewater base maps in GIS and conducting an analysis of demand, supply, capacity and storage for SMMWC's existing and projected infrastructure. Developed demand and loading estimates for the current SMMWC service area at build-out. Analyzed the projected water demand and wastewater loading from the proposed development and compared against existing SMMWC demand/loading factors and the capacity of the SMMWC's water and wastewater systems. Prepared a summary Technical Memorandum that describes the existing systems, proposed growth and recommendations completing future phases of the project.

City of San Luis Obispo, Wastewater Collection System Infrastructure Renewal Strategy. Staff Planner. Develop a Wastewater Collection System Infrastructure Renewal Strategy that includes; creation of a hydraulic model for the wastewater collection system, evaluation of pipeline capacity to deliver current and future loading, assessment of pipeline condition and the development of an asset management plan to guide future capital improvement projects. Utilize spatially allocated sewer loads, based on water demands, and an all-pipes model to implement a prioritized manhole data collection strategy that enables the City to focus its surveying efforts to the capacity impacted portions of the collection system. Intersect current wastewater loading with underlying parcel and land use data to develop area based loading factors for use in quantify loading for areas of future growth and densification. Develop a decision algorithm incorporating capacity and condition data to identify highest risk assets and prioritize replacement to limit the City's risk exposure.

Apple Valley Ranchos Water Company, North Apple Valley Water System Improvement Plan, Town of Apple Valley, CA. Staff Planner. Evaluated the capability and reliability of the water distribution system in north Apple Valley to meet current and projected demands and fire flow requirements. Developed spatially allocated existing and projected demands and performed a preliminary parcel screening to identify potential tank and booster stations sites needed to serve the study area as demands increase. Developed land use demand factors based on current demands in AVRWC's service area, compared

industrial land use demand factors for several other water utilities in California, and applied them to the projected land use of each parcel at buildout to generate spatially allocated demands at buildout.

Big Bear Lake Department of Water and Power, Atlas Map Update Services, Big Bear Lake, CA. Staff Planner. Converted AutoCAD® atlas map into a Geographical Information Systems (GIS) format to provide a robust platform to support BBLDWP's future initiatives (hydraulic modeling, CMMS integration, asset management, resource planning, emergency response, etc.). Updated the atlas map using as-built information and information from BBLDWP staff.

Nipomo Community Services District, BMP Implementation and CUWCC Support, Nipomo, CA. Staff Planner. Provides water use efficiency Best Management Practices (BMP) implementation and California Urban Water Conservation Council (CUWCC) support services including tracking, updating, planning, and reporting BMP compliance; participating, communicating, and working with the CUWCC as NCS D's representative; researching and summarizing water use efficiency programs as requested by NCS D staff; and ensuring that NCS D is up-to-date with water use efficiency trends.

City of Santa Maria, 2012 Utilities Master Plan Update, Santa Maria, CA. Staff Planner. Contributing author for the 2012 Utilities Master Plan Update. Developed spatially allocated demands for current and future demands through buildout using GIS for incorporation into a hydraulic model. Developed land use demand factors based on current development and projected land use and zoning of each parcel at buildout.

Northern Cities Management Area, Local Groundwater Assistance Grant Program Application Package, San Luis Obispo County, CA. Staff Planner. Lead author for the grant application to develop a groundwater model for a portion of the Santa Maria Valley Groundwater Basin. Facilitated stakeholder workshops to enhance inter-agency collaboration to develop a competitive grant application meeting all stakeholders' goals and objectives.

California American Water Company, Monterey County District 2010 Urban Water Management Plan, Monterey, CA . Staff Planner. Lead author of the UWMP. Prepared the 2010 UWMP to fulfill the requirements of the Urban Water Management Planning Act. Developed 20 year per capita water use projections by census block within the Division's boundary in accordance with California Senate Bill x 7-7. Evaluated supply, supply reliability, demand, supply and demand comparison, developed a water shortage contingency plan, and a recycled water plan.

West Valley Water District, Recycled Water Master Plan, Rialto, CA. Staff Planner. Lead author for the Recycled Water Master Plan. Facilitated stakeholder workshops to establish goals and objectives for the recycled water program. Facilitated outreach to potential stakeholders for jurisdictional analysis and cooperation, as well as to develop potential partnerships. Developed demand analysis of potential recycled water markets and customers in the District's current and future service areas. Analyzed jurisdictional and regulatory context for implementation of a recycled water program. Analyzed potential recycled water supply sources and facilitated outreach and workshops with potential recycled water source suppliers and partners.

City of Arroyo Grande, City of Arroyo Grande Capital Improvement Plan for the 2011 Water and Sewer Master Plan Updates, Arroyo Grande, CA. Staff Planner.

Contributing author for the Water and Sewer Master Plan Updates. Developed 20 year per capita water use projections within the City service area boundary in accordance with California Senate Bill x 7-7. Developed spatially allocated demands for current and future demands through buildout using GIS for incorporation into a hydraulic model. Developed land use demand factors based on current development and projected land use and zoning of each parcel at buildout.

City of Arroyo Grande, City of Arroyo Grande 2010 Urban Water Management Plan, Arroyo Grande, CA. Staff Planner. Primary author of the UWMP. Prepared the 2010 UWMP to fulfill the requirements of the Urban Water Management Planning Act.

Developed 20 year per capita water use projections within the City service area boundary in accordance with California Senate Bill x 7-7. Evaluated supply, supply reliability, demand, supply and demand comparisons, demand management measures, and a recycled water plan.

California American Water Company, Los Angeles County District 2010 Urban Water Management Plan, Los Angeles, CA. Staff Planner. Primary author of the UWMP.

Prepared the 2010 UWMP to fulfill the requirements of the Urban Water Management Planning Act. Developed 20 year per capita water use projections by census block within the CAW boundary in accordance with California Senate Bill x 7-7. Evaluated supply, supply reliability, demand, supply and demand comparisons, demand management measures, developed a water shortage contingency plan, and a recycled water plan.

California American Water Company, Descanso Community Water District 2011 Comprehensive Planning Study, Descanso, CA. Staff Planner. Evaluated population and demographic patterns to develop population projections and buildout population.

California American Water Company, Northern Division 2010 Urban Water Management Plan, Sacramento, CA . Staff Planner. Primary author of the UWMP. Prepared the 2010 UWMP to fulfill the requirements of the Urban Water Management Planning Act. Developed 20 year per capita water use projections by census block within the Division's boundary in accordance with California Senate Bill x 7-7. Evaluated supply, supply reliability, demand, supply and demand comparison, developed a water shortage contingency plan, and a recycled water plan.

California American Water Company, Carmel River Reroute and San Clemente Dam Removal Project, Carmel Valley, CA. Staff Planner. Assisted the Project Manager for the San Clemente Dam Removal project through coordination of multiple agencies. Involved in workshops to develop strategy for implementation of the construction, environmental mitigations, and land management of the project.

California American Water Company, National Marine Fisheries Service Settlement Phase II Sttlement Agreement, Carmel Valley, CA. Staff Planer. Assisted with coordination of multiple agencies to implement measures to reduce the impact of CAW's operations in the Carmel River on South-Central California Coast (SCCC) steelhead and California Red-Legged Frogs (CRLF), and/or otherwise aid in the recovery of SCCC steelhead and CRLF in the Carmel River Watershed.

California American Water Company, Los Angeles County District 2005 Urban Water Management Plan Update, Los Angeles, CA. Staff Planner. Prepared an update to the 2005 UWMP to address DWR comments to bring the document into compliance with the Urban Water Management Planning Act.

Nipomo Community Services District, 2010 Urban Water Management Plan, Nipomo, CA. Staff Planner. Primary author of the UWMP. Prepared the 2010 UWMP to

fulfill the requirements of the Urban Water Management Planning Act. Developed 20 year per capita water use projections by census block within the NCSO boundary in accordance with California Senate Bill x 7-7. Evaluated supply, supply reliability, demand, supply and demand comparisons, demand management measures, developed a water shortage contingency plan, and a recycled water plan. NCSO serves the communities of Nipomo and Blacklake, as well as distributing water to Golden State Water Company.

Town of Los Gatos Community Development Department, Building Permit Review, Los Gatos, CA. Reviewed building permit applications including residential and recreational uses.

Town of Los Gatos Community Development Department, News Rack Ordinance Update, Los Gatos, CA. Contributed to the development of a news rack ordinance update for the Town based upon research, community input, and economic vitality consideration. Research included creating a GIS database incorporating vendor permit status, vendor location, and other relevant information.

Academic Project Experience

Circulation and Land Use Element Update process for the County of San Luis Obispo Planning Department, San Luis Obispo, CA. Conducted buildout analysis study for three communities in northern San Luis Obispo County: Santa Margarita, Templeton, and San Miguel. Developed a constraints analysis model in GIS for each community to propose the best possible expansion site for future growth using strategic growth principles. Developed a conceptual corridor and expansion site plan for the community of Santa Margarita. Analyzed the feasibility and costs of bringing State Water Project water and a wastewater treatment facility to the community.

Downtown Urban Redevelopment Plan study proposal for Delano, CA.

Worked with the planning staff of Delano as well as the community of Delano through design charrettes and workshops as a redevelopment study. Created form based codes and design guidelines. This process included creating visual examples of the design guidelines with SketchUp, AutoCAD, GIS, Photoshop, and InDesign.

Avila Ranch Specific Plan study proposal for San Luis Obispo, CA

Incorporated site evaluation, talking to stakeholders, and creating an influential plan for the site. This project involved the use of form based codes and design guidelines. This process included creating visual examples of the design guidelines with SketchUp, AutoCAD, GIS, Photoshop, and InDesign.

Damon-Garcia CEQA Initial Study in San Luis Obispo, CA

The project involved environmental research and many site visits around San Luis Obispo as case studies of mitigation and biological impacts of planning. The end product was a complete CEQA initial study document for the Damon-Garcia property with a proposed development study.

Professional Endeavors

Water Systems Consulting, Inc.
December 2009 to present

Town of Los Gatos Community Development Department
July 2009- September 2009