



Water Quality & Treatment Solutions, Inc.
An Environmental Engineering & Science Consulting Company

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EDUCATION:

D. Env., University of California, Los Angeles	1988
M.P.H., University of California, Los Angeles	1982
B.A., Biology, University of California, San Diego	1979



PROFESSIONAL EXPERIENCE:

WQTS, Inc	Sept 2012-present
Glendale Water and Power	2006 –2012
McGuire Environmental Consultants/Malcolm Pirnie	2005-2006
MWH (Montgomery Watson Harza)	1991-2005
Metropolitan Water District of Southern California	1985-1990

SUMMARY:

Dr. Askenaizer is a Principal Scientist with WQTS. He leads WQTS' work on regulatory compliance support for many of our water agencies clients. Dr. Askenaizer tracks water quality and treatment regulations at the Federal and State levels and provides regulatory updates to our clients. Dr. Askenaizer has strong expertise in the development of Regulatory Monitoring and Compliance Plans (RMCPs), which he has completed for a number of water agencies. He has also been working on projects dealing with the development of distribution system monitoring plans, introducing a new source into the distribution system, evaluation of corrosion control strategies and review of nitrification control strategies. Prior to joining WQTS, Dr. Askenaizer was the Water Quality Manager for the Glendale Water and Power. Under his leadership, the Water Quality Group conducted a demonstration-scale study of chlorite for nitrification control and a pilot-scale study of biological treatment for removal of nitrate. The Water Quality Group was responsible for managing Glendale's Title 22 compliance program, the nitrification monitoring and control program, the City's cross connection control program, two NPDES discharge permits and responding to customer calls. Dan has over 30 years of experience working on projects dealing with regulatory, water quality and public health issues. Dan has given numerous presentations to local community groups as well as at workshops and roundtables across the country for water utilities. Dan was instrumental in developing and implementing a Mentoring Program for water staff and was a member of a company Sustainability team.

EXPERIENCE:

Introducing a New Source ***City of Ceres, California***

The City of Ceres retained WQTS to evaluate potential water quality challenges and provide recommendations to mitigate any adverse impacts with introducing a new surface water source into a distribution system historically served 100% groundwater. Water quality data for the existing groundwater supply and the future surface water supply were collected along with production data, customer complaints, distribution system piping material, lead and copper home tap results were collected, reviewed and presented in a series of figures and tables. A series of recommendations were prepared to mitigate potential adverse water quality and customer concerns when the new source is introduced.

On-Call Regulatory Support City of Sacramento, Sacramento, California

The City operates two large surface water treatment plants and 33 wells. Dan prepares an annual updated Regulatory Monitoring and Compliance Plan. The RMCP presents a review of all Title 22 Drinking Water Regulations and includes calendars that present monthly monitoring requirements for all of the City's sources and the distribution system. Dan works with City staff for the preparation of the annual Consumer Confidence Report, the 3-year PHG report, review and evaluation of grey water treatment system for the City, provides as needed review and evaluation of source and treated water quality data, and provide support to staff in developing responses to DDW requests.

Watershed Sanitary Surveys Various Agencies, California

WQTS has been involved in preparing five-year watershed sanitary survey updates for large and small water systems throughout California. These agencies include the Trabuco Canyon Water, District, Irvine Ranch Water District, Contra Costa Water District, City of Fresno, South San Joaquin Irrigation District, Calaveras County Water District, and the Stockton East Water District. Site visits to sources and treatment plants are conducted, five years of water quality data is compiled and reviewed to identify any changes over time and location, identify potential sources of contamination, the final Reports include recommendations for improving water quality over the next five year period.

Implementation of Ozone and Conversion of Distribution System to Chloramine Serrano Water District, Villa Park, California

The Serrano Water District owns and operates a 4 MGD surface water treatment plant. To comply with the Stage 2 DBP Rule, the District converted the primary disinfectant from free chlorine to ozone and the distribution system residual disinfectant was converted to chloramine with ammonia addition. WQTS provided services throughout the project including pilot studies, design review, assisted with construction oversight, conducted a tracer study of the new ozone contactor, prepared a Nitrification Monitoring and Control Plan and trained staff on implementing the Plan. Throughout the project WQTS worked regularly with the Santa Ana office of the Division of Drinking Water to provide project updates, and the development updated monitoring plans. WQTS managed the process to obtain an amended operating permit from DDW.

Evaluation of Distribution System Water Quality & Operation Mid-Peninsula Water District, Belmont, California

MPWD is a retail customer of the San Francisco Public Utilities Commission. WQTS was hired to conduct an assessment of the water quality program. Dan collected and reviewed years of water quality data, reviewed written procedures, spent time with field staff as they conducted their routes. Dan prepared a written assessment, updated SOPs for District staff and provided recommendations for improving the water quality compliance program. WQTS assisted the District with responding to nitrification in several of their storage tanks, developed a chlorine calculator to assist staff when calculating chlorine needed to boost chlorine residual in targeted storage tanks, prepared an updated Nitrification Monitoring and Control Plan and provided training to staff. After working with MPWD on nitrification issues, WQTS was retained by two other SFPUC customers; Purissima Hills Water District and the Westborough Water District, to provide support in dealing with nitrification in their storage tanks.

Corrosion Control Evaluation Various Agencies

WQTS has conducted corrosion control evaluations dealing with lead and copper and iron and manganese for a number of water agencies in California. Dan has worked with clients including the Los Angeles Department of Water and Power, City of Lakewood, City of Santa Barbara, Las Virgenes Water District, and the Zone 7 Water Agency and its Member Agencies. For each project, water quality data were collected from all sources along with production data, and customer complaint information. The data was organized, reviewed and presented in tables and plots; corrosion indices were calculated using an internal WQTS water quality model, corrosion control treatment alternatives were evaluated and final reports with recommendations were prepared.

Water Quality Manager**Glendale Water and Power, Glendale, California**

Dan served as the Water Quality Manager for the utility. The group was responsible for meeting all Title 22 monitoring and reporting requirements, implementing a nitrification monitoring and control program, managing the water Department's two NPDES permits and administering the City's cross connection control program. While at GWP, under Dan's leadership the utility conducted a demonstration-scale study on the use of chlorite for nitrification control and conducted a pilot-scale study of biological treatment for the removal of nitrate. Dan managed the effort to obtain two amended operating permits from DDW. One amended operating permit was for a new well and one was for modifications to an existing disinfection process.

Principal Regulatory Specialist**Metropolitan Water District of Southern California, California**

Dan was Principal Regulatory Specialist for MWD, a large wholesale agency. Dan was responsible for reviewing and evaluating proposed federal and state water quality regulations and legislation. Dan prepared and delivered public comments to regulatory agencies and legislative committees. Dan led teams that developed Action Plans identifying the impacts, resources needed and the requirements of new regulations; designed to ensure the utility complied with new drinking water regulations.

PUBLICATIONS AND PRESENTATIONS

McGuire, M., Wu, X., Blute, N., Askenaizer, D., Qin, G. Prevention of nitrification using chlorite ion: Results of a demonstration-scale project in Glendale, CA. Journal AWWA, October 2009, Vol 101, pp 47-59.

Askenaizer, D., Sakaji, R., Jacangelo, J. "Evaluation of California's Approach to Assignment of Pathogen Removal Credits and Membrane Acceptance as an Alternative Filtration Technology." AWWA Membrane Technology Conference. Phoenix, AZ. March 2005.

"Water and Sustainable Development. Opportunities for the Chemical Sciences. A Workshop for the Chemical Sciences Roundtable." National Academies Press. Washington DC. 2004. Workshop participant.

Askenaizer, D. "Drinking Water Quality and Treatment." Encyclopedia of Physical Science and Technology, Third Edition, Vol., 4, Academic Press, 2002, pp 651-671.

Askenaizer, D., Heart, S. "Breaking Down Barriers—Implications and Opportunities of the Safe Water Drinking Act and the Clean Water Act Watershed Provisions," WEF Watershed Conference. (January 8, 1998).

Askenaizer, D. "How EPA Sets an MCL" New England Water Works Association, Annual Meeting, Portland, Maine (September 1997).

Askenaizer, D. "Update on Regulations Affecting Disinfection Byproducts and Microbial Pathogens," CA/Nev AWWA Joint Instrumentation Conference. Anaheim, CA (August 1997).

Askenaizer, D. "Understanding the D/DBP and ESWTR," Louisiana Water Quality Technology Conference, Baton Rouge, LA (December 1996).

Askenaizer, D. "Drinking Water Regulations Under the 1996 Amendments to the Safe Drinking Water Act", New England Water Works Association, Boston, MA (November 1996).

Askenaizer, D. "Regulation Negotiation in the Development of Safe Drinking Water Regulations" American Society of Civil Engineers, Washington, D.C. (November 1996).