

**Roger A. Migchelbrink**

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**Education:** BA from Kent State University in Kent, Ohio, 1974  
Microbiology courses from Dr. Mike Richards, CSU  
Course in Restoration of Polluted Waters, Ocean Arks International, Falmouth, MA  
Associates Degree in Water Quality Management, Red Rocks Community College  
Master's Degree, Organizational Management, University of Phoenix

**Licenses:** Class A Water Treatment License, Colorado #1891  
Class A Wastewater Treatment License, Colorado #1636  
Class A Industrial Treatment License, Colorado #1087  
Class IV Wastewater Treatment, Arizona #11581  
Class IV Water Treatment, Arizona #11581  
Class 4 Collection License #581, Colorado  
Class 4 Distribution License #629, Colorado  
Class 4 Water Treatment License, California, T4-28042  
Class 4 Water Distribution License, California, D4-31835  
Grade 5 Wastewater Operators License, California,  
Class IV Wastewater License, Nevada  
Class IV Wastewater Collection License, Nevada  
Grade 4 Collection System License, CA  
New Mexico, Oregon and Wyoming licenses available upon request

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**Experience Summary:** Roger A. Migchelbrink has 38 years of experience in the water, wastewater, and industrial wastewater fields, including operations management, client relations, budgeting, operations, operator training, treatment facility start-up, treatment facility troubleshooting, and compliance. In the past twenty-five years he has received 40-hour MSHA training, 8-hour radioactive training and 40-hour OSHA certificate (#509.01-239), as well as 8-hour OSHA supervisor training. Previously, he was on the Curriculum Advisory Board at Red Rocks Community College in Lakewood, CO, for the water quality program and taught operator mathematics in both the Colorado Plant Operator's School and activated sludge process control management at the Wyoming Rural Operator's School. He has taught safety and collection system sections at the Colorado Plant Operators' School in Leadville, CO. He wrote the Safety chapter of the most recent WEF MOP 11 manual and edited and commented on the Management, BNR, Contract Operations, and Activated Sludge chapters. He was previously on the Colorado Wastewater Plant Operators' Certification Board, developing the test questions for operations certification.

**Project Experience:****Currently:**

**WaterTalent LLC**—Working as CPO at Rancho Murieta WWTP. Also, working as a private consultant with numerous groups.

**Supervisory**

**AquaSource Services LP, ECO Resources, Inc., SWWC, Severn Trent and Inframark**—

June 2013-current, working with the Technical Services Group and its successor corporate structures of Severn Trent and Inframark as a Senior Process Control Technician and Regional Technical Support Advisor.

August 2011-June 2013, worked as troubleshooter for water and wastewater facilities that were not meeting permit requirements. Included were plants in CA, AL and in Texas. Authored updated global Standard Operating Procedures for CA operations. Conducted operational audits of facilities as requested. (SWWC)

September 2007-August 2011, I served as the EHS Regional Regulatory Manager for the Western Region of SWWC. Duties developing a Regional safety program and manual, devising a compliance program for CA, tracking a safety program for CA, CO and SD, doing research and helping formulate a response for a fine in CA and representing our firm in the Western Region with clients on compliance issues. Concurrently, for six months, I was District(Area) Manager of Operations for the South Central Region of CA.

July 2001 to September 2007, I was tasked with continuing duties as a member of the national and regional business development teams of AquaSource and ECO/SWWC and also reprising duties as an Operations Manager and Compliance Manager in order to make sure the operations department in Colorado operated within budget and turned a profit, as well as operating all of our plants within the laws of the State. I had also been tasked with renewing customer relations and expanding the breadth of services that we supply to our clients. Finally, I developed an educational program to ensure that our operators will continue improvement in certification levels and earn in-house credits for CEUs. For a three-year period, I had to create a safety program while in the Denver office for AquaSource, including hiring personnel to execute that program. Total number of contracts to maintain varied from 48 to 104 and the total number of employees under my direct management varied between 12 to 56. *n.b., all the companies were listed in this section as they were companies that succeeded each other through takeover. Often the name of the employer changed, as did the job title, but for all practical purposes, the job remained the same. Area Coordinator in one firm was the same as Operations Manager or District Manager in another.*

**AquaSource Services LP**— From November 1999 to June 2001, I was the District Coordinator of Compliance and Marketing. In this capacity, I was tasked with the business development and marketing of our firm in the Colorado region and since January 2001 was an integral part of the AquaSource Services LP national business development team (which has been tasked with the development of business development strategies as well as budgetary templates and proposal templates). I was also assigned to design an OSHA compliance and safety program for the Colorado Region as well as being the Regional interface with EPA Region VIII and the Colorado Department of Public Health and Environment over compliance issues. Part of my duties included assuring that the systems we operated remained in compliance and inventing solutions to return them to compliance when they were out of compliance. For a period of six months I served as Acting Regional Manager for the CO office (construction, repair, distribution, collection system, operations, electricians and engineers, total employees managed between 140-168) until an internal reorganization changed that position. This directly preceded the purchase of AquaSource by ECO Resources.

**Water Quality Management Corp.**— From May 1997 to November 1999, I was the Operations Manager for WQMC, in its various permutations as a separate firm prior to its merger with AquaSource. Duties included sales, operator training, purchasing, budgeting, billing, hiring and training of personnel, personnel reviews, scheduling personnel, interfacing at regular intervals with clients and engineering firms, as well as the EPA and the Colorado Department of Public Health and Environment. During this time, I was also the operator in responsible charge of 14 different water and wastewater facilities.

**Sunrise Ranch**—From May 1982 to September 1992, I was the Fleet Manager for the fleet of automobiles, trucks, and maintenance equipment at Sunrise Ranch. The fleet varied from eleven to thirty-two vehicles, at times logging 750,000 miles annually. Responsibilities included ordering and purchasing vehicles, designing the maintenance program and budgetary programs to track expense and cost effectiveness.

I have previous experience with Goodyear and Checkpoint Tire Centre (in Wheeling, IL) as a Service Manager (1975-1980) and as a Property Manager and Physical Plant Manager of a now-defunct 3,000 acre conference center in Livingston Manor, New York. (1980-1982).

## **Industrial Wastewater Treatment Operations**

**Urad Mine Drainage Treatment Facility**, Urad Mine, Empire, CO, March-June 1994.

**Description of Primary Project Features:** Urad Mine is a “played-out” mine owned by the Climax/AMAX Molybdenum Co. After the mine was closed, tailing seepage made its way to the Clear

Creek Basin. The seepage was captured and treated using hydroxide/polymeric precipitation, acid injection for pH reduction and then discharged.

**Position Occupied and Time in Position:** Operations, March-June 1994.

**Duties and Responsibilities of Position:** Process control, chemical addition, installation of a pH feedback chemical addition system.

**Climax Mine Water Treatment Facility, Climax, CO, August 1993-March 1994**

**Description of Primary Project Features:** Climax Mine is a sometimes-operational mine located at the top of Fremont Pass outside of Leadville, CO. It is an old mine, and the tailings cover 16,000 acres. The drainage from these tailings impacts the headwaters of the Arkansas River, the Eagle River, and Ten Mile Creek, which feeds the Denver drinking water impoundment, Dillon Reservoir, as well as canals which feed the Pueblo and Colorado Springs drinking water system. The process involves pumping drainage to settling ponds where hydroxide precipitation is formed by the addition of slaked lime. Acid neutralization of the high pH water takes place before discharge into the various drainage systems.

**Position Occupied and Time in Position:** Operator in Responsible Charge, August 1993-March 1994.

**Duties and Responsibilities of Position:** Process control, compliance sampling, chemical addition, pump monitoring, record-keeping, and maintenance of pH feedback/chemical addition system.

**Grand Junction UMTRA site, Grand Junction, CO, March-August 1993.**

**Description of Primary Project Features:** Lead Operator for the radioactive water treatment facility on the UMTRA remediation site, responsible for operator training, sampling, process control, chemical ordering, records, and maintenance of the plant facility.

**Position Occupied and Time in Position:** Operator in Responsible Charge, March 1993-August 1993.

**Duties and Responsibilities of Position:** Process control, compliance sampling, chemical addition, pump monitoring, record keeping, and maintenance of pH feedback/chemical addition system.

## **Water and Wastewater Operations**

**Winters WWTF, Winters, CA, November 2011-November 2014.**

**Description of Primary Project Features:** 0.92 MGD lagoon facility and collection system. The plant was neglected for a period of time and much of the job was getting the plant back up to professional standards.

**Position Occupied:** Chief Plant Operator November 2011-December 2012, part-time operator currently.

**Duties and Responsibilities of Position:** Staff training, compliance submissions, purchasing, scheduling, emergency response, sampling, establishing maintenance program (partially completed), upgrading facilities, plant mechanic.

**Black Hawk / Central City Sanitation District, Black Hawk, CO, October 1994-April 1997.**

**Description of Primary Project Features:** The BH/CC Sanitation District Wastewater Treatment Facility is an activated sludge-type system for the treatment of domestic sewage. The plant was modified successfully to incorporate Biological Nutrient Removal at the facility. The modification and operations were so successful that the plant was featured at the WEF Regional Conference in 1997.

**Position Occupied and Time in Position:** Operations, October 1994-December 1995, Operator in Responsible Charge December 1995- May 1997.

**Duties and Responsibilities of Position:** Process control, chemical addition, NPDES compliance sampling and reporting, modification of plant to BNR operations along with the experimental sampling, process control sampling plans and sampling, operator training, inspection and maintenance of the collection system, budgeting, purchasing, monthly reporting to the Board and the engineering firms involved, devising and instituting a maintenance program, instituting a collection systems identification, cleaning and maintenance program, writing the O & M manual along with writing the Annual Reports and the Biosolids Reports.

**Climax Mine Water Treatment Facility, Climax, CO, August 1993-March 1994.** Lead Operator of the water treatment facility. Duties included operator training, chemical ordering, compliance sampling, designing a schedule for sampling, process control testing, and maintenance of the plant. The facility was a surface water plant with a maximum capacity of 8 MGD, using three different source waters.

**Eden Valley Water and Wastewater Treatment Facilities, Loveland, CO, March 1992-August 1993.**

Lead operator for the facility. Duties included designing a maintenance program, sampling, operator training, and operation of an activated sludge wastewater treatment facility and a coagulation/sedimentation/filtration water treatment facility.

**Sunrise Ranch Water and Wastewater Treatment Facility**, Loveland, CO, November 1981-March 1993. Lead operator for the facility. Duties included bringing the plant into compliance, application for a groundwater discharge permit, ordering chemicals, working on a redesign of the aeration system, operator training, designing a preventative maintenance program, design and maintenance of the collection system, record keeping, budgeting. The water treatment system was originally a diatomaceous earth system. This was replaced by a coagulation/sedimentation/filtration system that at one time used UV disinfection.

**There were numerous smaller facilities I served as lead operations CO and CA.**

In addition to these facilities, I was the licensed operator in responsible charge for the following wastewater plants during my time as the Area Operations Coordinator for ECO Resources:

**Will O' Wisp:** from 1995-2004, extended air WWTP with nutrient removal parameters, 0.060 MGD

**Glacier View Ranch:** from 1997-2007, RBC with ammonia removal requirements, 0.015 MGD.

**Wind River Ranch:** from 2005-2007, SBR with ammonia removal requirements, 0.020 MGD

**Sacred Heart of Mary** from 2005-2007, SBR with ammonia removal requirements, 0.008 MGD

**Red Lion:** from 2005-2007, extended air with ammonia removal requirements, 0.012 MGD

**San Lazaro MHP:** from 2005-2007, extended air with ammonia removal requirements, 0.105 MGD  
.120 MGD coagulation, sedimentation and filtration WTP.

Total time spent at these plants was 20 hours per week on site, with supervisory responsibilities for a crew of three to six who manned these plants.

*n.b.: These are not the total number of wastewater and water treatment projects I have worked at. These are the most prominent.*