# Scott Barton

*Process Scientist/Scientific Technician*

Mr. Barton has over 20 years of technical experience working in exacting environments; with over 7 years of working in the field of water treatment. This experience includes Water Treatment Plant (WTP) conceptualization, design, costing, construction oversight, commissioning, and operations. Mr. Barton is also highly experienced in the laboratory and industrial chemistry, as well as process engineering.

Mr. Barton's primary duties and responsibilities for the projects listed below include:

- Process Scientist / Scientific Technician
- Process Engineer / Senior Process Engineer
- Process Supervisor / Process Operator
- Project / Process Management
  - Including scope, schedule, and budgetary considerations
- Multi-Disciplinary Team Management
- Construction Management
- Procurement – Including Return on Investment (ROI) Calculations
- Evaluation and Assessment of Water Quality (WQ) Data
- Computer modeling for Water Treatment Plant Design and Water Quality Analysis
  - Experienced user of Avista Advisor software
  - Experienced user of Dow ROSA software
- Quality Control and Quality Assurance Management
  - Experienced, qualified user of Minitab statistical software
- Regulatory Report Writing / Overseeing Compliance Objectives
- Specification and Work Instruction Preparation
- Personnel Training

**Education:**

- B.S., Science, University of Nevada Reno, 1988

**Qualifications**

- Water Treatment Plant Design
- Water Treatment Plant Operation
- Project Management
- Water Balance
- Procurement
- Permitting
- Process Engineering

**Certifications:**

- MSHA Surface Mining
- Six Sigma Certified Greenbelt
- David H. Pall – Reverse Osmosis Specialist – 1 (ROS-1)

**Years of Experience:**

- 20+

## Project Experience:

**2,000 gpm McLaughlin Temporary Water Treatment Plant, Homestake Mining Company, CA**

Mr. Barton was part of a team responsible for designing a 2,000 gpm treatment designed to dewater an overfull pit lake while meeting all regulatory obligations for discharge. Mr. Barton was involved in the selection of the treatment technologies, which include coagulation, clarification, filtration, reverse osmosis and ion exchange. Mr. Barton was responsible for overseeing the bench-scale testing of the source water, which was designed to validate the coagulation/filtration treatment technologies selected for use.

**800 gpm Coagulation / Ultrafiltration (UF) / Sea Water Reverse Osmosis (SWRO) / Ion Exchange (IX) – Jerritt Canyon Gold – Elko, NV**

Mr. Barton was a core team member for onsite pilot testing that successfully developed a fast-tracked treatment strategy for mercury and other problematic heavy metals, enabling their reduction in concentration to allowable discharge levels. This work involved the assessment of UF and SWRO and selected activated carbon materials and IX resins.

**2500 gpm Microfiltration (MF) / Reverse Osmosis (RO) Water Treatment Plant – Turquoise Ridge Joint Venture Mine – Golconda, Nevada**

Mr. Barton was extensively involved in the design of a 2500 gpm Water Treatment Plant at Turquoise Ridge Mine, a joint venture mine owned and operated by Barrick and Newmont. This design effort included creating models for multiple treatment options which along with chemical pretreatment had MF / RO and IX components, with an ultimate selection of membrane technology being based upon a broad array of considerations including CAPEX / OPEX and effectiveness of the technology. Mr. Barton was also the lead scientist in charge of selecting the chemical treatments for this project by conducting multiple bench-scale tests, as well as validating the selections by performing extensive on-site pilot-scale testing.

**4000 gpm Mixed Media Filtration (MMF) / UF / RO Water Treatment Plant – Barrick Goldstrike Mine – Carlin, Nevada**

Mr. Barton was involved in a significant manner in the operation and control of the Barrick TCM Water Treatment Plant,

working both as a Plant Operator as well as a Plant Supervisor. Mr. Barton was part of a 24 hour/day, 365 day/year contract operations team that operated the plant at the Barrick Goldstrike facility. Day to day tasks included systems control and oversight, equipment maintenance, troubleshooting, sampling, chemical cleaning, membrane replacement, data monitoring, data collection and implementing corrective measures.

**100 gpm Microfiltration / Reverse Osmosis Plant – Klondex Gold and Silver Mining – Beowawe, Nevada**
Mr. Barton has been extensively involved in an ongoing support role for the operation of a MF / RO plant, located at the Klondex Fire Creek facility. This support includes Water Quality analysis and review and periodic computer modeling for RO performance, as well as extensive bench-scale testing to deliver treatment solutions to the client.

***30 gpm Microfiltration / Reverse Osmosis / De-Ionization Plant – Niotan Inc. – Mound House, Nevada**
In his role as Senior Process Engineer, Mr. Barton was responsible for helping design, construct and operate this Water Treatment Plant, which was vital to the operations of Niotan Inc. Mr. Barton was responsible for design approvals, overseeing all construction related activities, commissioning and controlling this facility, and was responsible for all water related activities, including regulatory oversight.

*Denotes non-Linkan Engineering based projects.