

Ken Stelman

Senior Hydrogeologist

Expertise

Mining Hydrogeology, Mine Dewatering, Baseline Studies, Site Characterization, Site Conceptual Models, Numerical Modeling

Education

M.S. (Geology, Hydrogeology Certificate), 1997
University of South Florida

B.S. (Geological Sciences, Hydrogeology Concentration), 1994
University of California, Santa Barbara

Registrations

Professional Geologist (California)

Certified Hydrogeologist (California)

Professional Affiliations

Member: National Ground Water Association (NGWA) and Colorado Groundwater Association (CGWA)

Professional Experience

2020 – Present

Itasca Denver, Inc., Lakewood, Colorado
Senior Hydrogeologist

2014 – 2020

Wood plc, Denver, Colorado (formerly Amec Foster Wheeler, 2014–2018)
Associate Hydrogeologist / Geosciences Group Manager

2012 – 2013

Schlumberger Water Services, Perth, Australia (formerly Water Management Consultants, Inc.)
Senior Project Manager / Senior Hydrogeologist

2011 – 2012

URS Australia, Perth, Australia
Associate Hydrogeologist

2002 – 2011

Amec Geomatrix, Denver, Colorado (formerly Geomatrix Consultants, Inc., 2002–2008)
Senior Hydrogeologist

2001 – 2002

Water Management Consultants, Inc., Denver, Colorado
Project Hydrogeologist

2000 – 2001

Foster Wheeler Environmental, Lakewood, Colorado
Project Hydrogeologist

1998 – 2000

Streamline Environmental, LLC, Tampa, Florida
Project Hydrogeologist

1995 – 1998

U.S. Geological Survey, Water Resources Division, Tampa, Florida
Hydrologist

Project Experience

Mining Hydrogeology: Mr. Stelman is experienced in baseline hydrogeological studies, third-party due diligence reviews, water-quality assessment, tailings seepage assessment, water-supply evaluation, and dewatering and depressurization studies and mine water management for open pits and underground mines. He develops site conceptual models and hydrogeological investigation work plans, designs and implements groundwater and surface-water study programs, and directs and performs groundwater modeling studies to support mining operations and regulatory compliance. He is involved in various development stages in the life cycle for permitting and operations at open-pit and underground mines (e.g., PEA, PFS, FS, expansion, closure). He has worked at mine sites throughout the United States, Canada, Mexico, Argentina, Chile, Australia, and Ghana.

Site Characterization and Remediation: Mr. Stelman is experienced in contaminated site characterization and remediation in accordance with regulatory guidelines under CERCLA, RCRA, CWA, and SDWA. He works with clients to mitigate impacts to soil, groundwater, and surface water resulting from mining operations, petroleum refining, and industrial manufacturing including the testing and production of aerospace propellants and explosive munitions. Chemicals of concern at his project sites include acid mine drainage (metals, sulfate, acidic pH), chlorinated solvents and petroleum hydrocarbons (VOCs, SVOCs), emergent compounds (perchlorate, NDMA, 1,4-dioxane, 1,2,3-TCP), and constituents of energetic materials (CEMs, RDX). He has extensive experience at multiple “Superfund” sites at different stages of the CERCLA process, including Remedial Investigation and Feasibility Studies (RI/FS), Remedial Design and Remedial Action (RD/RA), Proposed Plans, and Records of Decision (ROD).

Numerical Modeling: Mr. Stelman develops three-dimensional groundwater flow models and performs model calibration, predictive simulations, and sensitivity analysis for remedial design, performance monitoring, dewatering/depressurization, tailings seepage assessment, and environmental impact assessment.

Hydrogeological Field Investigation: Mr. Stelman develops investigation work plans using his extensive knowledge of environmental sampling and analysis requirements, laboratory analytical methods, water-quality data review, specialized techniques for hydrogeological field investigations using a variety of drilling methods, designing and monitoring multilevel monitoring wells, hydrophysical and geophysical logging, continuous data collection stations, low-flow groundwater sampling, and aquifer testing and analysis.