

RICHARD THOMAS BURTELL

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EDUCATION

- M.S. Hydrology, University of Arizona (1989)
- B.S. Geology, University of Pittsburgh (1986)

CERTIFICATION/TRAINING

- Registered Geologist, Arizona (No. 33746)
- Mine Geochemistry , Hydrology and Water Treatment Workshops (EPA, 2013)
- Section 404 Permitting and Groundwater Plume Analysis Workshops (AHS, 2012)
- Stream Restoration Course (WMG, 2011)

SUMMARY

Mr. Burtell is an environmental scientist with 25 years of project and management experience. Areas of expertise include water rights and demand analyses; evaluation of ground and surface water resources; remote sensing; land ownership assessments; environmental compliance; investigation of mine, fuel and waste storage facilities; contaminant hydrology; and, collection and analysis of environmental data. Management duties have included supervision of staff and consultants, project planning and coordination, report preparation, and litigation support.

EMPLOYMENT

- Plateau Resources LLC
Principal and Owner
Phoenix, AZ (2011-Present)
- Arizona Department of Water Resources
Manager, Adjudications and Tech Support
Phoenix, Arizona (1999-2011)
- Golden Environmental Management
Senior Project Manager
Tempe, Arizona (1998-1999)
- Montgomery Watson
Supervising Hydrologist/ Geochemist
Arizona and Colorado (1992-1998)
- Golder Associates Inc.
Project Hydrologist/Geochemist
Denver, Colorado (1990-1992)
- U.S. Geological Survey
Staff Hydrologist/Geochemist
Orlando, Florida (1989-1990)
- Phelps Dodge Inc.
Hydrogeologist – Summer Intern
Morenci, Arizona (1987)

EXPERIENCE

Project

- Evaluation of ground and surface water resources including aquifer testing, model development and review and GW/SW interactions
- Water rights analysis and legal review
- Stormwater, Section 404 , and mine exploration permits
- Preparation of Environmental Impact Statements and Aquifer Protection Permits
- Water demand determinations for agricultural, municipal, industrial, and riparian uses
- Phase I/II Environmental Site Assessments
- Remote sensing and surface mapping
- Contaminant hydrology and transport/ geochemical modeling
- Characterization of fuel and solid/ hazardous waste facilities
- Collection and analysis of hydrologic, geologic and water quality data

Management

- Supervision of enviro. staff (up to 15 geologists, hydrologists, GIS analysts and administrative assistants) and consultants
- Project planning and scheduling
- Proposal and report preparation including document publication
- Coordination with interdisciplinary teams, stakeholders and regulators
- Litigation support (expert testimony, technical advisor to court, and settlement negotiations)
- Third party and peer review
- Budget development and control

COMMITTEES

- Water Resources Development Commission (served on Water Supply and Demand Committee)
- Western Navajo-Hopi Water Supply (Kyl) Study
- Upper San Pedro Partnership (served on Technical Advisory Committee)

AWARDS/HONORS

- Arizona Department of Water Resources
 - Supervisor of the year
 - Section of the year
 - Team and individual special achievement
- University of Arizona
 - Meritorious performance as teaching assistant
- University of Pittsburgh
 - Representative of graduating class
 - Tarr Award, Sigma Gamma Epsilon
 - Summa cum laude

PROFESSIONAL ORGANIZATIONS

- Arizona Hydrological Society
- Arizona Geological Society
- Arizona Water Well Association
- Arizona Riparian Council
- SME (Maricopa Section)

RECENT PUBLICATIONS/REPORTS

- *Estimated Water Demand and Conservation Potential of Domestic Wells in the Sierra Vista Subwatershed, Arizona* (2012)
- *Water Supply Options and Potential at the Fancher Mill Site* (2011)
- *Assessing Water Supply Vulnerability in a Water Scarce State: The Arizona Water Sustainability Evaluation* (prepared with Kelly Lacroix and Linda Stitzer and presented at the XIV World Water Congress, 2011)
- *Multi-Sector General Stormwater Permit Applications for the Ajo, Carlota, Fancher and Zonia Mines, Arizona* (2011)
- *Response to Comments and Objections Filed on ADWR's June 2009 Subflow Zone Delineation Report for the San Pedro River Watershed* (2011)
- *Land Ownership Within the San Pedro Riparian National Conservation Area* (2010)
- *Mapping of Holocene River Alluvium along the Verde River, Central Arizona* (prepared in cooperation with the Arizona Geological Survey, 2010)
- *Arizona Water Atlas, Volumes 1 through 8* (2006-2010)
- *Catalog of Non-Exempt Registered Wells, Zuni Indian Water Rights Settlement* (2009)
- *Subflow Zone Delineation Report for the San Pedro River Watershed* (2009)
- *Preliminary Hydrographic Survey Report for the Hopi Indian Reservation* (2008)
- *Identification of Irrigated Lands in the Gila River Maintenance Area* (2008)
- *Review of the Settlement of Public Water Reserve No. 107 Claims in the San Pedro River Watershed* (2007)
- *Technical Assessment of the Tohono O'odham Nation, Gila River Indian Community, and Zuni Indian Tribe Water Rights Settlements* (2006)

RECENT AND CURRENT PROJECTS

- Aquifer Protection Permit for a marble quarry near Dragoon, AZ (Alpha Calcit Arizona Ltd.)
- Aquifer testing, well siting, and ground-water quality assessment for the proposed Fancher gold mill near Salome, AZ (Luxcor Gold)
- Exploration permit for the Idaho Placer Claim near Prescott Valley, AZ (various investors)
- Geochemical characterization of impacted waters and stormwater and 404 permitting for the Zonia copper mine near Prescott, AZ (Redstone Resources Corporation)
- Hydrogeologic and well permitting support for reclamation of the St. Anthony uranium mine, NM (Pueblo of Laguna)
- Litigation of Bonita Creek water rights issues near Payson, AZ (various plaintiffs)
- Navigability assessment for major intrastate streams, AZ (Freeport McMoRan)
- Review of federal reserved right claims for Aravaipa Canyon Wilderness Area (Freeport McMoRan)
- Water supply evaluation of the Arctic Ice and Water company (various investors)
- Water use evaluation and analysis of conservation potential for domestic wells in the Sierra Vista Subwatershed, AZ (City of Sierra Vista and Western Resource Advocates)
- Water use evaluation for the town of Camp Verde, AZ (Western Resource Advocates)