

**JOSEPH W. OLIVER, P.G., C.Hg.**

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**PROFESSIONAL EXPERIENCE**

**WATER RESOURCES MANAGER / SENIOR HYDROGEOLOGIST** Monterey Peninsula Water Management District, Monterey, CA; 1985 - present

Manage programs, services and professional staff within the Water Resources Division; serve as the District Senior Hydrogeologist. Duties include data collection, technical analysis, staff supervision, and program management. Program responsibilities include aquifer recharge, storm water reuse, fisheries protection, water quantity and quality monitoring, and biological assessment. Develop and supervise hydrogeologic field data collection programs, conduct aquifer tests, operate ground water flow models, manage budgets and technical consultant contracts, supervise development and maintenance of ground water information database. Prepare water management plans and environmental documentation for local, state and federal environmental review processes. Develop technical reports and presentations for political bodies and the public. Serve as expert witness on matters relating to ground water resources.

**HYDROGEOLOGIST** Colorado Department of Natural Resources, Denver, CO; 1983-85

Employed as staff specialist and section leader in Mined Land Reclamation Division. Responsibilities included detailed technical reviews of exploration, mining and reclamation permit applications, with particular emphasis on ground water impacts and mitigation. Operated ground water models to assess projected impacts of mining operations on ground water systems. Planned and directed hydrogeological investigations that guided permit and policy decisions by the Mined Land Reclamation Board. Duties included inspection of active mining operations and administration of enforcement actions to ensure compliance with applicable state and federal regulations.

**HYDROGEOLOGIST** Hydro-Search, Inc., Golden, CO; 1982-83

Served as staff scientist and project manager on hydrogeologic investigations related to mining, mineral processing, ground water exploration, waste disposal and ground water contamination. Responsibilities included supervision of production and monitor well installation programs, design and implementation of surface water, ground water and vadose zone monitoring programs, analysis of the anticipated chemical interaction between natural ground water and injected wastewater, and completion of aquifer tests. Assigned tasks included significant involvement in delineation of ground water contamination migration pathways and development of methods for remediation of contaminated ground water.

**HYDROGEOLOGIST / GEOCHEMIST** Beak Consultants, Inc., Aurora, CO; 1982

Served as technical specialist on hydrogeologic investigations relating to oil shale, coal and mineral mining operations. Responsible for hydrogeologic data collection, analyses, and report preparation. Duties included assessment of post-reclamation surface and ground water quality for a surface coal mine; evaluation of migration potential of heavy metals from a hazardous waste disposal site; supervision of drilling and ground water monitoring operations for a proposed underground precious metals mine; and analysis of lithologic and geophysical logs for delineation of aquifer systems at a proposed oil shale mine site.

**HYDROLOGIST** U.S. Geological Survey, Water Resources Division, Denver, CO; 1979-81

Performed research on the hydrogeology of the High Plains Regional Aquifer System (i.e., Ogallala Formation). Research program was conducted to determine aquifer characteristics, rates of recharge, discharge and consumption, water quality characteristics and sources of degradation, and the anticipated long-term yield of the aquifer system. Tasks included field data collection, hydrochemical mapping, ground water stable isotope interpretation, operation and interpretation of chemical equilibrium models, presentation of research results, and preparation of reports for publication.

**GEOLOGICAL ASSISTANT** Indiana Department of Natural Resources, Bloomington, IN; 1975-79

Worked in the Petroleum Section of the State Geological Survey. Primary duties involved inspection and surveying of well site locations in areas of active oil and gas exploration. Also compiled subsurface geologic structure maps and performed geotechnical drafting.

## **REGISTRATION**

Professional Geologist, California (PG 4604)  
Certified Hydrogeologist, California (CHg 164)  
Registered Professional Hydrogeologist, American Institute of Hydrology (HG 964)

## **EDUCATION**

Indiana University, B.A., Geology  
Indiana University, M.A., Geology -- Hydrogeology Specialization  
University of Colorado, Ground Water Engineering -- Continuing Education Program

## **SCHOLASTIC HONORS**

Honorary State Scholarship  
Merit Scholarship  
Undergraduate Honors Teaching Internship  
National Association of Geology Teachers Scholarship  
Atlantic Richfield Company Academic Excellence Award  
Graduate Research Assistantship

## **ORGANIZATIONS**

National Ground Water Association, Association of Ground Water Scientists and Engineers Division  
American Institute of Hydrology  
Groundwater Resources Association of California  
Monterey Bay Geological Society  
Monterey Bay Water Works Association

## **CONTINUING EDUCATION**

Impact of Mining on Ground Water Short Course, National Water Well Association, 1984  
Ground Water Modeling Workshop, Colorado State University, 1985  
Finite Element Modeling Workshop, International Ground Water Modeling Center, Butler University, 1985  
Fresh Water/Salt Water Interface Mapping Workshop, The Earth Technology Corporation, 1986  
Aquifer Analysis Short Course, National Water Well Association, 1987  
Interstate Conference on Water Policy, ICWP/U.S. Geological Survey, 1989  
USGS Modular Flow Model - MODFLOW Course, National Water Well Association, 1989  
Isotope Geochemistry for Professional Geologists and Engineers, Hurst Seminars, 1990  
Fractured Rocks: Characterization, Flow and Transport, Environmental Education Enterprises, 1995  
Analytic Element Modeling of Ground Water Flow, Environmental Education Enterprises, 1995  
Management Action Program Workshop, MAP, Inc., 1998  
Managing Aquifers for Sustainability – Protection, Restoration, Replenishment and Reuse, Groundwater Resources Association of California (GRAC), 2004  
Artificial Recharge: Nexus of Quantity and Quality in California, GRAC, 2005  
Principles of Groundwater Flow and Transport Modeling, University of California Cooperative Extension Program & GRAC, 2006  
Assessment, Use, and Management of Groundwater in Areas of Limited Supply, GRAC, 2006