

JOE TOM WOOD, P.E.

Water Resources Engineer

EDUCATION

Stanford University - Stanford, CA
B.S. General Engineering, 1968
M.S. Civil Engineering (Nuclear Hydrology), 1969

REGISTRATION

Licensed Professional Engineer: Colorado, P.E. No. 17829

EXPERT QUALIFICATIONS

Qualified as an expert witness in Water Courts for Water Divisions I, II, III, and IV, in United States Court of Claims, and in United States District Court for Colorado, variously in areas of water resources engineering; water rights engineering; water quality; water accounting; values of water; and change decrees.

Certified Engineering Expert Witness, American Council of Engineering Companies

PROFESSIONAL EXPERIENCE

Martin and Wood Water Consultants, Inc. Golden, CO
President March 1991 - Present

Experience includes management of changes of water rights, studies of historical uses of water rights, plans for augmentation, water supply and demand analyses, and valuations of water rights.

Jehn and Wood, Inc. Denver, CO
Vice President 1984 - 1991

Experience included change of water rights, water rights evaluations, plans for augmentation, surface water and ground water modeling, and surface drainage analyses.

Blatchley Associates, Inc. Denver, CO
Water Resources Engineer 1979 - 1984

Experience included water resource analyses and expert witness testimony relating to plans for augmentation, changes in water rights, water use studies, and watershed yields, evaluations of water rights for various purposes, computer applications to water rights analyses, channel and river hydraulic analysis and design, and studies of rainfall and snowmelt flood hydrology and design of drainage systems.

Lake Livingston Project, Trinity River Authority of Texas Livingston, TX
Project Manager 1976 - 1979

Experience included managing the 80,000-acre, 1,750,000 acre-foot Lake Livingston for municipal, industrial, and agricultural uses, expert testimony in court of law involving flood litigation, and writing detailed report on severe drought of 1978. Management of lake involved water quality monitoring, operating of wastewater treatment plants, septic tank and shoreline facility control programs, flood water and water supply releases, and maintenance and repair of project facilities.

Trinity River Authority of Texas Arlington, TX
Assistant Division Manager 1975 - 1976

Experience included preparation of reports and analyses involving water rights applications, surface water supply, and water quality, including engineering report on flooding below Lake Livingston.

Martin and Wood Water Consultants, Inc.

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Water Resources Engineer

PROFESSIONAL EXPERIENCE (con't)

Forrest and Cotton, Inc.
Water Resources Engineer

Dallas, TX
1969 to 1974

Experience included preparation of basin-wide studies of water quality and wastewater treatment, including mathematical model of water quality for the Sabine River, design of various drainage improvements utilizing computer models, preparation of information and court exhibits involving flood litigation, hydrologic design and evaluation of numerous surface water supply reservoirs, including spillway design, water supply capability, drawdown evaluation, basin-wide analyses of water rights and water supplies of Brazos, Navasota and Guadalupe Rivers to determine availability of cooling water for utility companies, and surface water supply reservoir and source-to-treatment analysis for long-range water supply study for the City of Dallas and North Central Texas Council of Governments.

PROFESSIONAL AFFILIATIONS

National Society of Professional Engineers
American Society of Civil Engineers
American Council of Engineering Companies
Colorado Water Congress
American Water Resources Association
American Water Works Association
Colorado Ground-Water Association

PUBLICATIONS

A chapter entitled "Water Rights" for the Ditch Company Handbook published by the Ditch and Reservoir Company Alliance, June, 2005.

"My Life as a Cross, Examined Witness," 2008, paper presented to CBA/CLE program on Expert Witnesses in Water Cases on October 3, 2008, in Denver, Colorado.

RELATED EXPERIENCE

1. City of Englewood, Colorado: Analysis of historical yields of Englewood's water rights, including preparation of exhibits and expert testimony for transfer of rights to alternate points of diversion. Monitoring of applications for water rights by others in South Platte River Basin to protect Englewood's water rights.
2. Water Rights Augmentation Plans, Colorado: Provided water rights engineering for over 30 decreed plans for augmentation, including 20 in the South Platte River Basin. Provided water rights engineering as an objector to other plans for augmentation.
3. Water Rights Engineering, Colorado: Evaluated water rights for sale or lease. Evaluated changes of water rights in support of and in opposition to water rights applications filed in various Water Courts.
4. Development of computer programs for the following purposes:
Analysis of water rights; crop consumptive use; stream depletion resulting from diversions and surface irrigation (Glover Method); ground water analysis (adaptation of PLASM program); reservoir yield and routing; basin-wide statistical analysis of river call data; analysis of in-priority status of an individual water right; analysis of cumulative, in-priority rates of diversion by several water rights diverting at a common point.