

MOHAMMED SHEET MOHAMMED RAMZI. TAKA

Ph.D. Hydrogeology

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SUMMARY

Extensive experience in hydrogeology, applied geology, especially integrated surface water and groundwater modeling. Worked for engineering firms, government agencies, universities, a petroleum company, and in Iraqi Atomic Energy Organization

QUALIFICATION

B.Sc. Degree in Geological Science

July 1988

College of Science , University of Mosul, Iraq

M.Sc. Degree in Hydrogeology

(Study Of Selected Wells In Mosul City And Formulation Of Pollution Index For The Water Of The Study Area)

Ph.D in Hydrogeology

(Formulation Mathematical Model Using Finite Element Method For Ground Water Movement In Mosul Dam Area)

PROFESSIONAL EXPERIENCE

Supervisor, Groundwater and Surface Water Planning Section

Department of Environmental Protection

- Affiliate in iraqi atomic energy organization 1988-1993
- Lecturer in dept. of geology mosul unvi. 2001-tell now
- Managed the development of a county wellfield protection model using MODFLOW and innovative Fortran code.
- Managed coastal saltwater intrusion monitoring and analysis.
- Represented the county on committees and working groups involved in the Comprehensive Everglades Restoration Program, state water resource regulation and planning, and FEMA flood mapping.
- Performed surface water quality modeling regarding discharge of wastewater to surface water and calibrated to water quality measurements. Used QUAL2K and EcoLab.
- Performed surface water flow modeling with MIKE 11/MIKE SHE to explore stormwater management options.
- Analyzed artificial groundwater recharge possibilities.
- Taught undergraduate courses in groundwater hydrology, environmental geology, geomorphology, and geology for engineers.
- Taught graduate courses in groundwater hydrology, groundwater modeling, watershed hydrology, and hydrogeologic measurements.
- tensiometer nests, soil moisture detector nests, stream stage recorders, and a pyrliograph. Supervised data collection and analysis.
- Taught courses in groundwater hydrology, advanced hydrogeology, and historical geology.
- Performed research on computer simulation of the hydrologic systems of mountain watersheds, including gathering field data on watersheds and comparing field data to computer results.

- Performed research on the streamflow effects of snowpack augmentation by mountain weather modification.
- Conducted research on watershed hydrology.
- Assisted teaching stratigraphy (including geophysical borehole log interpretation), paleontology, and historical geology.
- Summer employment with the Pure Oil Company in Saskatchewan and Illinois involved hydrodynamics problems related to oil accumulation and production.