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ASHISH DAW, P.G., P.H.

EDUCATION

Graduate Studies in Hydrogeology, SUNY Buffalo, 2003-2005
M.Sc. – Applied Geology, Anna University, Chennai, India, 2003
B.Sc. – Geology, Fergusson College, Pune, India, 2001

PROFESSIONAL REGISTRATIONS AND CERTIFICATIONS

Professional Geologist, Pennsylvania, PG005482
Professional Hydrogeologist, AIH 26-HGW-05022
OSHA 40 hours HAZWOPER

EMPLOYMENT HISTORY

2025 to present – Sevee & Maher Engineers, Inc., DBA UHL & Associates, Geoscientist
2011 to 2025 – UHL & Associates, Geoscientist
2006 to 2007 and 2009 to 2011 – Uhl, Baron, Rana & Associates Geoscientist
2003 to 2006 – Department of Geology, SUNY Buffalo, Research Assistant
1999 – Netherlands Assisted Project Office, Hyderabad, India, Hydrogeologist

AFFILIATIONS

International Association of Hydrogeologists
National Ground Water Association
American Institute of Hydrology
North Jersey Water Conference
New Jersey Water Association
Global Water Alliance

PROFESSIONAL PROFILE

Ashish Daw is a geoscientist with a diverse portfolio of experience in domestic and international groundwater supply projects. Mr. Daw began his career as a hydrogeologist with the Netherlands Assisted Project Office in India where he participated in a project to identify areas of wells in the State of Andhra Pradesh with acceptable fluoride concentrations and set a framework for distributing high quality groundwater. His work as a teaching and research assistant at SUNY Buffalo focused on the integration of GIS and remote sensing technologies with hydrogeology and development of analytical element groundwater modeling toolsets for integration into the ESRI ArcGIS platform.

Mr. Daw has managed numerous domestic and international water supply and environmental projects. His work in New Jersey, New York, Pennsylvania, and neighboring states has included spring resources evaluations, water supply development and management, and a wide range of environmental evaluation

and protection work. He has extensive experience in installation, testing, and maintenance of small- to large-capacity production wells in bedrock and unconsolidated aquifer settings. In the past 5 years Mr. Daw has been involved with preparing groundwater supply master plans for groundwater supply utilities in northern New Jersey. Mr. Daw has sited wells using state-of-the-art methods, including the identification of lineaments and faults from aerial photographs and satellite images, and working closely in the field with geophysicists.

For Municipal Water Departments and Public and Private Utilities in New Jersey and New York, Mr. Daw has managed many new production well installations, well replacements, and well redevelopment projects, which included aquifer testing, and water allocation permitting. For Townships in New Jersey and Pennsylvania, Mr. Daw has been involved with preparing Ordinances for groundwater use. As a groundwater expert he has also completed groundwater assessments for private clients to comply with established Township Ordinances on groundwater use. Some of this work involved groundwater recharge estimations, installation of domestic wells, Aquifer Test Plans and Hydrogeologic Reports.

Mr. Daw's international groundwater supply experience is in rural and urban settings and has involved working with Governments and local experts with project funding from agencies such as The World Bank Group, IFC, USAID, MCC, CIDA, and DFID. These projects have geographically ranged from the Sahel Countries of West Africa to Ethiopia, Liberia, Lebanon, Afghanistan and Sri Lanka.

Current ongoing work with the World Bank in Ethiopia, Mr. Daw assisted in-country hydrogeologists and experts with identifying locations for a variety of dam structures for Managed Aquifer Recharge (MAR) to the depleted shallow groundwater aquifers.

REPRESENTATIVE PROJECTS

Parsippany-Troy Hills Water Department, Parsippany, New Jersey – As the water department's Geoscientist, Mr. Daw has supervised the successful redevelopment of 12 out of 16 of the department's production wells, completed two well replacement programs, and is presently overseeing additional well redevelopments and replacement programs. The production wells range in yield from 200 to 1,200 gallons per minute (gpm).

Essex Fells Water Department, Essex County, and Southeast Morris County MUA, Morris County, New Jersey – Mr. Daw was involved with preparing a groundwater master plans for the water department and MUA. The groundwater master plans provided a 5- and 10-year road map for well redevelopments, replacements, and augmenting new sources for groundwater supply into the next decade.

East Orange Water Commission, New Jersey – Mr. Daw has been working with the Commission for over 15 years, assisting them with maintaining their well field with well redevelopments and replacements. He has conducted short-term specific capacity tests to assess decrease in well efficiency. In this wellfield, he also explored newer redevelopment techniques such as air-surging and air-bursting.

Clinton Borough Water Department, New Jersey – To satisfy New Jersey Department of Environmental Protection's regulatory requirements, Mr. Daw created an Analytical Element groundwater model to determine pollutant paths from point sources under pumping conditions and recommended pumping scenarios. This study resulted in the Department of Environmental Protection issuing a Water Allocation permit for a critically needed municipal production well.

Montville Water and Sewer Department, Montville, New Jersey – Mr. Daw has led numerous groundwater development and recharge area protection studies for the Montville Water and Sewer Department. Work included developing a comprehensive aquifer protection plan for the portion of the I-287 highway that traverses the Township and the prime aquifer area, establishing a 5-year well efficiency program for their production wells. Ongoing work includes assessing strategies to improve groundwater recharge by connecting streams to disconnected flood plains.

Morris County MUA, Morris County, New Jersey - Mr. Daw supervised drilling, installation and testing of shallow glacial wells to model collector wells for riverbank filtration applications. Additionally, he supervised the drilling of deep test bedrock wells into an abandoned iron ore mine and conducted a 14-day pumping test to determine the interconnection of mine stopes and natural flux of groundwater into the mine as a part of a feasibility assessment study.

Veolia (Formerly Suez), Tioga and Rockland County, New York - As Veolia/SUEZ, New Yorks's geoscientist, Mr. Daw assisted in the preparation of an aquifer testing waiver from the Susquehanna River Basin Commission for their Owego Water System, proximate to the Susquehanna River. He prepared potentiometric surface maps illustrating estimated water-level impacts using analytical groundwater flow solutions and kriging methods for wells located in a narrow glacial valley system.

Washington Township Municipal Utility, Morris County - Mr. Daw was involved with the exploration for additional groundwater resources. This included analyzing Very Long Frequency (VLF) survey data, aerial photography, and Landsat images to identify and map lineaments and fracture zones. This study was followed by field geophysics to accurately identify lineaments and fractures to drill and construct three production wells.

Private Client, Warren and Hunterdon County, New Jersey – For a private client in Warren and Hunterdon Counties of New Jersey, he worked on evaluating natural springs and determining the potential for developing these natural springs as sources for potable water bottling facilities.

International Projects

Ethiopia, The World Bank and Ministry of Water and Energy – 2024 – present: Assisted in-country hydrogeologists on selection of various dam structures for managed aquifer recharge to depleted shallow groundwater aquifers in Dire Dawa.

Ethiopia, Agricultural Transformation Agency – 2018: Identifying regolith features as indicators for shallow groundwater, using high resolution satellite imagery and image processing techniques in western Ethiopia.

Ethiopia, Acacia Water, Netherlands and Water and Energy - 2021: Sub-contracted to Acacia Water for a project in Tigray Region, Northern Ethiopia. Mr. Daw assisted team Hydrogeologists with siting well locations, improving geological maps, and identifying lineaments using automated lineament extraction method.

West Africa, Sahel, The World Bank Group – 2021-2022: For the Sahelian Countries (Senegal, Burkina Faso, Mali, Mauritania, Niger, and Chad) in West Africa, as a groundwater specialist, Mr. Daw helped identify technical, financial, and gender-related barriers to small-scale groundwater-based irrigation.

Niger, Stantec and MCC: Under the completed MCC-Niger Compact, Mr. Daw worked on assisting Stantec/MCC and the MCA-Niger account on groundwater requirements for livestock markets, villages, and small-scale irrigation in Tillaberi, Dosso, Tahoua, and Maradi Regions of Niger.

Niger, Winrock and USAID: Mr. Daw assisted Winrock International on developing local and regional scale groundwater resource inventories in project communes and villages. Work products included a GIS training manual for local Winrock staff on data interpretation and map preparation.

Lebanon, IRG/USAID (Litani River Basin Management Support Project) – 2010 – 2014: Mr. Daw developed a groundwater contour map for a USAID-funded water resources study of the Litani River Basin, a major agricultural area in Lebanon. Products prepared included a temporal GIS database of groundwater level measurements and maps showing flow patterns and changes in water levels between wet and dry periods.

Liberia, The World Bank, 2011-2012: On a World Bank funded assessment for the Liberia Water and Sewer Authority, Mr. Daw evaluated 200 representative water points (kiosks, open hand-dug wells, hand pumps, drilled wells) in Greater Monrovia. The primary objective of this effort was to evaluate water-quality conditions at water points in Monrovia on a sample basis, classifying water points according to their level and type of contamination, and identifying causes and patterns of pollution.

CONFERENCE PRESENTATIONS

Daw, Ashish and Vincent Uhl, 2019-2026. Instructors for TCH Courses on "Overview of Production Well Asset Management and Diagnostic Programs". North Jersey Water Conference and New Jersey Water Association.

Daw, Ashish, 2024. Presented paper on "Production Well Asset Management: Repair or Replace? Case Studies and Guidance". AWWA Conference, March 2024, Atlantic City, New Jersey.

Uhl, Vincent W., J. Ayamsegna, A. Daw, J. Baron and Tidjani Amadou. 2024. Presented a paper on "Bacteriological Quality of Groundwater Based Drinking Water Sources in South Central Niger". International Association of Hydrogeologists Conference, September 2024, Davos, Switzerland.

Uhl, Vincent W., Ashish Daw and Jaclyn Baron. 2024. Presented a paper on "Sustainable Small-Scale Irrigation Through Smart Groundwater Planning". International Association of Hydrogeologists Conference, September 2024, Davos, Switzerland.

Uhl, Vincent W., Ashish Daw and Jaclyn Baron. 2024. Presented a paper on "Lessons Learned from over a Half Century of Groundwater Supply for Concentrated Urban Water Utilities in North Central New Jersey". International Association of Hydrogeologists Conference, September 2024, Davos, Switzerland.

Uhl, Vincent W. and Ashish Daw, 2022. Presented paper on "Managing Municipal Production Wells. AWWA Conference, March 2022, Atlantic City, New Jersey.

Daw, Ashish, 2019. Presented paper on "WASH Inequities: Monrovia, Liberia". Global Water Alliance – 12th Annual Conference – March 21, 2019, at Wharton School, University of Pennsylvania.

Daw, Ashish, 2018. Presented paper on "Assessment of Causation of Boreholes Failures Senegal & Niger". Global Water Alliance – 11th Annual Conference – Groundwater: The Hidden and Disappearing Resource, April 5, 2018, at Villanova University, Pennsylvania.

Daw, Ashish, 2013. Presented a paper on "GIS a Tool for Groundwater Basin Analysis". Esri International User Conference, Jul. 8–12, 2013 in San Diego, California.

PUBLICATIONS

Uhl, Vincent W. and Ashish Daw, 2017. Sustainable Small-Scale Irrigation Utilizing the Irrigable Land Use Potential (ILaP) Calculator. Paper accepted for the 44th IAH Congress in Dubrovnik, Croatia.

Kumpel, E., Albert, J., Peletz, R., de Waal, D., Hirn, M., Danilenko, A., Uhl, V., Daw, A., Khush, R., 2016. Urban Water Services in Fragile States: An Analysis of Drinking Water Sources and Quality in Port Harcourt, Nigeria, and Monrovia, Liberia. *American Journal of Tropical Medicine and Hygiene* 95, 229–238.

Becker, M. W., Daw, A., 2005, Influence of lake morphology and clarity on water surface temperature as measured by EOS ASTER, Remote Sensing of Environment, v. 99, p 288 – 294.

Fredrick, K. C., Becker, M. W., Matott, S. L., Daw, A., Bandilla, K., Flewelling, D. M., 2006, Development of a numerical groundwater flow model using SRTM elevations, Hydrogeology Journal, v. 15-1, p 171 – 181.