



Northwater

Consulting

water resources | geosciences | mapping

Technical, Planning & Management Environmental Services

northwaterco.com | Springfield, Illinois, N.A. | info@northwaterco.com | 217.725.3181



Northwater

We are a small environmental consulting company that specializes in water resources, geosciences and mapping services. We are enthusiastic and effective consultants that provide our clients valued services related to the development, management and conservation of the earth's land and water resources.

Northwater is a brand new company based out of Springfield, Illinois. We are founded on renowned technical specialties and competencies that include water quality, surface hydrology, watershed sciences/planning, hydrogeology, geomorphology, geology, mapping and natural area restoration. We also have the unique ability to compile effective teams of associates and partners and can manage complex water, natural resource and environmental projects.

Our clients are the most important part of our business and enable us to do what we truly love doing for a living. We view our clients as partners and are focused on developing strong, trustful relationships and providing timely, effective and personal level service. The quality and effectiveness of our work results from our experience, professional passion and our personal level commitment to our clients.

Thank you for taking the time to learn about Northwater and we look forward to working together,

Jeff Boeckler

Watershed Studies, Planning & Management

Technical studies, planning and management

Our technical, management and personal skills all come together to make us premier specialists in watershed consulting.

A watershed is a system of complex technical physical and ecological processes and a multi-disciplinary understanding of watersheds is required to address economic development, conservation and management of water and natural resources. To make things even more complicated, a watershed is also a social network of diverse stakeholders and communities that often have differing objectives and interests.

Watershed businesses, stakeholders and communities are integral for guiding sustainable economic development and resource conservation. We are very good at facilitating both the technical and social components of a watershed project and developing solutions and plans that effectively and meaningfully achieve results for stakeholders and the environment.

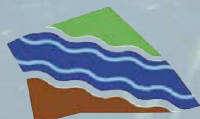
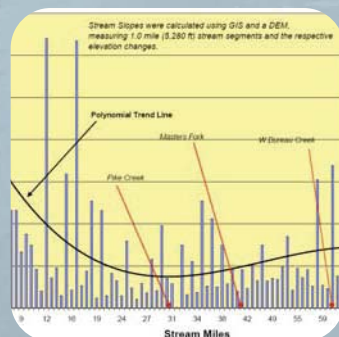
We also understand funding sources, funding requirements, and partnership mechanisms available to achieve goals and objectives of our clientele. We know how to effectively and meaningfully facilitate and engage stakeholders and how to collect, analyze and utilize complex data to make things happen on the ground.

Technical Services

- Watershed inventories and studies
- Hydrology
- Water quality
- Aquatic ecology and habitat
- Pollution load analysis
- Sediment and bed load yield
- Erosion and mass wasting
- Soils studies
- Fluvial geomorphology
- TMDL development
- Hydrology, water quality, erosion and ecological monitoring

Planning & Management Tools

- Watershed plan development
- Green infrastructure & BMP implementation
- Landowner & stakeholder outreach & facilitation
- Project management
- Grant writing and project fundraising
- Ecosystem, habitat and stream restoration planning and design
- Consulting for local, state and federal programs
- Liaison to county, State and Federal governmental agencies
- Business & corporate responsibility consulting



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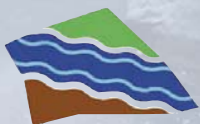
Permitting, Monitoring & Compliance

With water being such an important component of economic development, quality of life and ecological health, the use of water and any potential impacts to water resources has become a highly regulated affair.

Our principal has worked in the government for over eight years, and as a result we understand the Clean Water Act and also the goals and objectives of the regulating agencies. We can effectively and expeditiously secure permits and approvals. This knowledge and insight, combined with our technical expertise allows us to properly guide our clientele from day one.

Services

- Point source discharges (NPDES, PCS)
- Impact Assessment
- Erosion and sediment control
- Stormwater
- Wetlands
- Floodplain
- Baseline studies
- Stream crossings
- Monitoring & compliance reporting
- Threatened & Endangered species
- Mitigation & offset plans
- Corporate responsibility planning & implementation



Water Supply

Sourcing, Development & Management

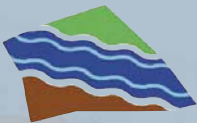
Our combined surface water and groundwater expertise assure that the most practical, cost effective and sustainable water supply is developed to suit your needs. From developing a reservoir, harvesting rainwater or installing a deep well, our comprehensive water expertise is here to help you get the water you need.

We provide water supply services for potable, irrigation, industrial, recreational and restoration uses. We also provide third party review of proposed or existing water supply sources for investors and funding entities.

Services

- Feasibility studies
- Regional and local water resource evaluations
- Water supply exploration
- Well drilling & construction oversight
- Alternatives analysis
- Water supply sustainability
- Water budgets & demand modeling
- Water quality
- Source protection & management
- Impact assessment
- Impairments and contamination
- Permitting & approvals





Custom Mapping & GIS Analysis

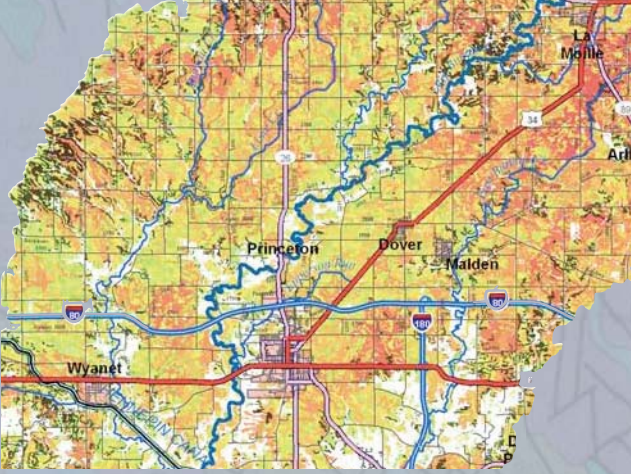
Custom and professional maps and analysis

Mapping, visualization and GIS analysis are tools that support most of the services that we offer and the clients that we serve. As a result we are able to provide our clientele with advanced mapping and GIS services.

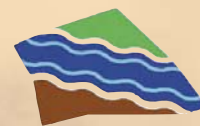
We can do much more than just “make maps”. We can create tools to help organizations and businesses make effective decisions by analyzing and illustrating existing and custom spatial and subsurface data. Northwater staff has extensive experience and specialized training in mapping, terrain assessment and GIS. We can develop custom map layers and models, locate and assemble available data, analyze this information and help clients use map based information for effective decision making and planning..

Services

- Custom imagery and topography
- Custom property recreational and resource maps
- Spatial assessment of trends and patterns
- Map and analyze independent or custom created data
- Visualization, communication & marketing tools
- Land, watershed and resource planning
- Geologic resource mapping and exploration
- Soils mapping and analysis
- Pollution load mapping and modeling
- Master community and resort development planning
- Land and subsurface resource inventories
- Avoidance and prioritization mapping
- 3D Modeling and visualization



Hydrogeology and Groundwater Resources



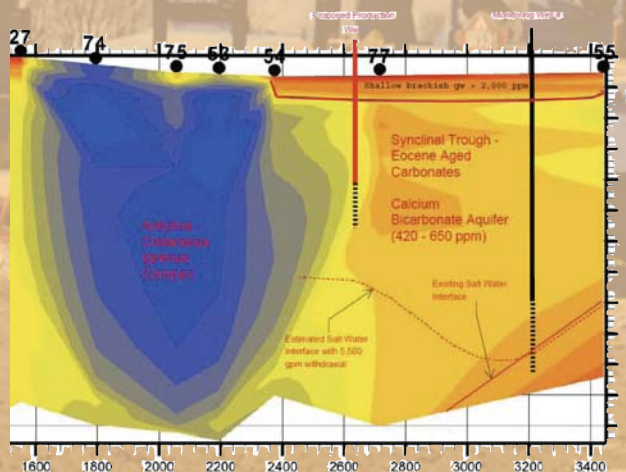
Studies, Investigations, Development and Management

Groundwater accounts for 99.7% of the earth's available freshwater, it is a critical resource that is required to meet the demands of the growing world populations and economies. We provide the expertise and services necessary to characterize and understand these complex and unseen resources and develop them effectively and sustainably so that they are available for the health of our world's population, economies and the environment.

We offer a full range of professional hydrogeology and groundwater resource services anywhere in the world. We are practical, applied and able to handle complex and challenging projects for a wide range of clientele. Whether your goal is establishing and managing a sustainable potable water supply for a city or resort, mining briny groundwater to harvest lithium, securing a community water supply in a third world country or restoring groundwater hydrology for a wetland; we can help you get it done.

Services

- Water well drilling and oversight
- Geologic mapping & yield optimization
- Groundwater exploration
- Groundwater exploration geophysics
- Borehole geophysics interpretation
- Well design and specifications
- Pumping tests
- Groundwater modeling
- Aquifer sustainability and yield analysis
- Wellhead and aquifer protection and planning
- Groundwater monitoring
- Geochemistry, water quality and age dating
- Saltwater intrusion & coastal groundwater
- Withdrawal impact analysis
- Dewatering & mining applications
- Contamination assessment and remediation strategies
- Natural area restoration hydrogeology



Green Infrastructure, BMPs & Ecological Restoration

Planning, Design, Build and Management

The proper application of green infrastructure, best management practices (BMPs) and ecological restoration is valuable to businesses, municipalities, watershed & conservation organizations among many others. These applications address urban and rural issues related to stormwater, flooding, water quality, stream-flow, invasive species, streambank erosion/scouring and wildlife and aquatic habitat degradation. Their applications are a fraction of the cost of hard engineering solutions and are becoming highly accepted by the public and regulating agencies. Further, there are many sources of public and private funding to implement these types of projects.

Northwater has years of experience planning, designing and implementing both small and large scale BMPs and ecological restoration projects; everything from stream and stream habitat restoration, naturalized detention basins to native prairie establishment. We can develop implementation plans, designs, evaluate project benefits and locate the appropriate funding sources to get projects implemented. We specialize in providing program management and building effective teams to take your projects from an idea to a reality. We know all of the funding mechanisms available for a project and have a strong network with regulating and funding entities, so we can effectively find money to help implement your projects.

Services

- Green Infrastructure and BMP planning and design
- Restoration plans and program management
- Watershed-wide or community based implementation plans
- Landowner and stakeholder outreach
- Facilitation & visioning
- Project coordination and management
- Liaison to governmental and regulating entities
- Project funding consulting and grant writing
- Permitting, approvals, mitigation & offsets
- Corporate responsibility & sustainability

