

WATER RESOURCES



Creating solutions for your water resources needs

Hanson employs knowledgeable, experienced water resources professionals who possess the skills, insight and know-how to keep you and your projects above water. Whatever your project needs, we can help you identify the risks and hazards associated with your specific water resources challenges.

Let us leverage our experience for your next project.





Solutions you can trust

Bridges, scour, flow control structures and watershed studies

If your project demands complex watershed modeling, developing hydrodynamic flow models, compiling advanced stream hydraulics models, evaluating gated spillway structures or calculating potential scour, our team has the knowledge to make your project a success.

Levees, floodwalls and stormwater detention

Floodwalls, levees, interior drainage systems, gated spillways and pumping stations are all components that our engineers have studied, designed and implemented for private, municipal and industrial clients throughout the U.S. and abroad. Our recognized experience with levees and flood control projects will keep your feet dry.

Water supply studies, dams and reservoirs

In times of drought, the value of a reliable water supply cannot be measured. Hanson has assisted numerous clients in the evaluation of existing and future water sources for the public and private sector. Our engineers can identify water supply shortcomings and develop plans to shorten the gap. We have succeeded in helping our clients assess water demand, determine existing reservoir yield, meet low-flow requirements for streams, evaluate critical drought frequencies and durations, and assess potential groundwater sources.

Floodplain and dam safety permitting

The water resources staff at Hanson knows regulatory permitting across the country. Our team will navigate your project through the permitting process, whether you need a permit to raise a levee on a major river system, replace a bridge over a headwater slough or bring your dam up to national safety standards.

Highlights of our experience

Our water resources services include:

- advanced hydraulic modeling
- complex bridge scour and countermeasure design
- complex watershed modeling and management
- dam safety design and permitting
- drought forecasting and water supply modeling
- FEMA flood insurance studies
- flood control planning and design
- floodway construction permitting
- GIS mapping solutions and integration
- groundwater modeling
- hydrographic surveying
- levee raises and improvements
- sediment transport and erosion control
- stormwater master planning

Whether you have too much water or need more of it, the engineers at Hanson can help when it comes to your water resource needs.

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