

Nancy Gambill - Environmental Engineer

Summary

Ms. Gambill is an environmental engineer with GBMc & Associates, Inc. She has over 10 years experience in hydrologic and hydraulic modeling for FEMA flood insurance studies (FIS), Corps of Engineers projects, municipal storm water drainage plans, and road design. Hydraulic modeling for road design includes floodplain analysis to determine bridge or culvert opening. Hydraulic modeling for FEMA FIS includes determination of floodplain and floodway. Hydraulic and hydrologic modeling experience for the Corps of Engineers includes watershed hydrologic modeling as well as hydraulic modeling of proposed irrigation systems.

Ms. Gambill also has experience with air regulatory issues. She has prepared air permit applications and compliance reports for facilities in Arkansas, Texas, Mississippi, and Arizona. Ms. Gambill also has experience with Arkansas Department of Health rules and regulations about septic systems. Ms. Gambill has experience with water quality modeling as well as sampling.

Education

1999 BS Civil Engineering, University of Arkansas
1994 BS Biology, University of Arkansas

Experience

Ms. Gambill has worked on municipal storm water drainage plans using hydrologic and hydraulic modeling and developed capital improvement plan for drainage improvements. She is experienced in using HEC-RAS to assure adequate size of bridges and culverts as well as floodplain and floodway impacts for proposed road alignments. Ms. Gambill has worked on FEMA FIS using HEC-GeoRAS, HEC-RAS, and GIS for mapping. She is experienced in the use of USGS regression methods for hydrology as well as HEC-1 and HEC-HMS models. HEC-RAS was also used to model proposed irrigation and flood control projects in Arkansas for the Corps of Engineers. In addition to use of hydrologic and hydraulic models, Ms. Gambill has used LA-Qual to develop TMDLs for streams in Louisiana. She has also developed frequency duration curves for use in water quality projects as well as determining frequency of probable flooding of sites. Ms. Gambill has worked on low flow, i.e. 7Q2 and 7Q10, determinations for various projects.

Ms. Gambill has worked with industrial facilities in Arkansas and Texas to develop air regulatory compliance reports and air emissions inventories. She has prepared air emission calculations and both Title V and minor source air permit applications. She has assisted clients by developing air compliance tools to include New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutant (NESHAP), Stratospheric Ozone Protection of the Clean Air Act, and Greenhouse Gas regulation. She has experience with state regulatory requirements for air in Arkansas, Texas, Mississippi, Arizona, and Georgia.

Ms. Gambill has experience with field data collection activities. Ms Gambill also has experience with sampling of drinking water wells.

While working for Arkansas Department of Health (ADH), Ms. Gambill checked septic system design and installation for compliance with ADH regulations, tested swimming pools and spa facilities for chemical balance and compliance with ADH regulations, and inspected restaurants and grocery stores, assuring food storage and handling was sanitary.

Nancy Gambill - Environmental Engineer (cont.)

Professional Affiliations and Licenses

Arkansas Registered Professional Engineer No. 11631
American Society of Civil Engineers (ASCE)
Arkansas Floodplain Management Association (AFMA)
Certified Floodplain Manager (CFM) Number AR-09-00204