

# ***Aaron Stallmann - Environmental Engineer***

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## ***Summary***

Mr. Stallmann is an Environmental Engineer with GBM<sup>c</sup> & Associates, Inc. He has over five years of experience working with industrial facilities as a consultant. He has worked with facilities in Arkansas, Louisiana, Texas, Georgia, Nebraska, and Mississippi on various environmental compliance projects, including wastewater treatment engineering services, field surveying, field sampling, Spill Prevention Control and Countermeasure (SPCC) Plans, Storm Water Pollution Prevention Plans (SWPPP), and various reports required by the state and federal agencies.

## ***Education***

2000 BS Civil Engineering, University of Arkansas at Fayetteville

## ***Experience***

### **Engineering Services**

As an environmental engineer, Mr. Stallmann has participated in engineering projects for several different types of industrial facilities including pulp and paper, wood processing, specialty chemicals, fertilizer manufacturers, wood/paper products, and durable materials manufacturing.

He has performed engineering analyses of industrial wastewater treatment systems, modeling of wastewater treatment systems, closure of wastewater treatment systems, construction oversight, drainage systems design, force main systems design, and containment systems design. The following is a list of examples of Mr. Stallmann's project experience.

- Developed conceptual designs for upgrade and improvement of industrial wastewater treatment systems.
  - Assisted in design and provided construction oversight for a gravity-fed wastewater treatment system at a manufacturing facility which included oil and grease removal, settling, and biological treatment.
  - Designed a replacement gravity sewer line to convey process water to a wastewater treatment system.
  - Performed preliminary design for a wastewater pump system to transfer wastewater and provide surge capacity in an existing impoundment for storm water inflow.
  - Developed conceptual design to capture and recycle surface water, foundation drain water, and treated wastewater for use in a fire control water system.
  - Provided oversight and direction for pump operation during extensive impoundment dewatering activities.
  - Designed pump and force main systems that provide the ability to recirculate or discharge from storm water retention basins.
  - Developed conceptual design to capture storm water from an industrial facility through gravity channels and a surface impoundment and force main to the wastewater treatment system.
  - Designed containment structure for an existing surface water drainage channel to provide the ability to capture and transfer water to a wastewater treatment system if necessary.
  - Developed initial pump specifications for the Ouachita River Pipeline project based on the results of preliminary engineering design.
  - Assisted in the design of the modification of the wastewater treatment system at a federal facility to equalize the influent flow and allow for increased treatment efficiency.
  - Participated as a member of a team of engineers responsible for the closure of a wastewater treatment pond system that covered over 100 acres and involved over \$5 million in capital expenses.
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## ***Aaron Stallmann - Environmental Engineer (cont.)***

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### **Water Quality / Storm Water Modeling Services**

Mr. Stallmann has developed and calibrated water quality models for a large river system in Arkansas which covered approximately 55 river miles. The model was calibrated for dissolved oxygen, nutrients, algal growth, and carbonaceous biochemical oxygen demand. He has modeled the transport and fate of DO, CBOD, and Ammonia. His water quality modeling experience includes use of various EPA supported models including: AQUATOX, Multi-SMP, and QUAL2K.

Mr. Stallmann had also developed storm water runoff models for industrial facilities and rural residential areas. The models were used to predict peak flow rates and runoff quantity for sizing detention ponds and recommending pump operational scenarios to maximize storm water capture. His storm water modeling experience includes the use of TR-55 and HYDROCAD 8.0.

### **Air Services**

Mr. Stallmann has experience in preparing Minor Source and Title V permit applications in Arkansas and Missouri. He has also been responsible for preparing Emission Inventories and has experience in assisting clients to achieve environmental compliance with their air permit and regulations through database development for quantifying, tracking, and recording air emissions. He has participated in the development of Leak Detection and Repair (LDAR) programs to assist pulp and paper mills achieve compliance with Cluster Rule requirements.

### **Federal and State Toxic Chemical Annual Reporting**

Mr. Stallmann has been responsible for SARA Title III Sections 311, 312 and 313 reporting for numerous facilities in the past including pulp and paper mills, wood products facilities, furniture manufacturing facilities, and a fertilizer manufacturer.

### **Field Services**

Mr. Stallmann has been a part of sampling teams responsible for collecting various types of samples including soil, fish flesh, process streams, stream and river, storm water, and wastewater. He has performed preliminary land surveying utilizing a total station and level. Mr. Stallmann has provided direction and oversight for the drilling portion of geotechnical investigation.

### **SPCC and SWPPP Plan Activities**

Mr. Stallmann has been responsible for reviewing and updating SPCC plans to comply with recently promulgated federal regulations for a pulp and paper mill, a fertilizer manufacturer, and a fiberglass materials manufacturing facility. He has also reviewed and made appropriate revisions to the SWPPP plan for a pulp and paper mill.

### ***Professional Affiliations and Licenses***

Arkansas Professional Engineer No. 12388

American Society of Civil Engineers

National Society of Professional Engineers

Arkansas Society of Professional Engineers

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