



**D&B ENGINEERS
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Odor Monitoring and Treatment

SERVICES INCLUDE:

Odor Surveys

Facilities Planning

Conceptual and Detailed Design

Design Services During Construction

Operation and Maintenance Manuals

Permits and Modeling

Start-Up and Training



D&B Engineers and Architects, P.C. (D&B) is a full-service firm and has an experienced staff to take projects from the planning stage through design and construction completion. Necessary operation and maintenance manuals, training, and overall start-up services are a part of D&B's many projects. D&B also specializes in construction-related activities, including resident engineering inspection, construction management, shop drawing review, CPM scheduling, start-up/training services, and emissions permitting.

Having engineered hundreds of wastewater treatment facilities ranging in capacity from 25,000 gallons to 350 million gallons per day, D&B is an expert in all aspects of wastewater treatment and water pollution control, including odor control systems that utilize tank covers and odor treatment.

D&B has completed odor surveys that have required on- and off-site air sampling, computer modeling and characterization of odors. Our team provides service for odor control systems in preliminary, primary, secondary, and sludge treatment process areas, and odor control for raw sewage pumping stations both on plant and in remote collection system areas have been evaluated, designed, and put into operation. Additionally, our team is experienced in source identification, facilities planning, alternatives evaluation, final report recommendations, design report, detailed plans and specifications, and operations assistance services for mitigation of odors.

A key part of any evaluation is the odor treatment system to be utilized. An odor treatment system must be matched with the treatment process/source of the odor to be effective. Collection/ventilation and all ancillary systems are important components to an effective system. Fans, chemical feed pumps, air compressors, water softening equipment, reactor vessel materials, instrumentation and controls, and ductwork all must be selected carefully for the intended use.

Cover selection includes an analysis of factors, such as aesthetics, constructability, durability, maintenance, profile, structural integrity, and other essential features. In addition, odor control systems can create high operations and maintenance costs if not properly designed. Effectively designed systems will allow for the desired odor mitigation while minimizing electrical requirements, air flow, required heat, and chemical usage.