



Wastewater Treatment System Design

Williams Creek utilizes a wide-variety of turn-key wastewater treatment and disposal design services to meet client needs. Biological and structural systems can be used to effectively manage wastewater issues as a financially responsible solution to an environmentally sensitive area.

Some systems Williams Creek uses include:

- Biological Wastewater Treatment and Disposal Systems
- Natural Stormwater Filtration Systems
- Phytoremediation Solutions
- Constructed Wetland-Based Systems

Constructed wetland-based systems require minimal maintenance and reduce both the chemical and biological strength of wastewater. Biological systems can filter out most intestinal pathogens through media filters and specific plants. Not only do these plants physically treat the sewage but they also enhance the aesthetics of the wetland landscape.

The two typical types of constructed wetland-based systems are surface flow and sub-surface flow wetlands. Surface flow wetlands look like natural wetlands and are more economical for treating large volumes of wastewater such as those generated by communities, but have the drawbacks of possibly causing odors and attracting mosquitoes.

Sub-surface flow wetlands consist of a gravel cell designed so that wastewater remains one to three inches beneath the ground surface. These types of biological wastewater systems can effectively treat waste-streams ranging from low strength sanitary waste to high strength process industry wastewater. The versatility of these systems allows for easy adaptation for pre-treatment as well as stormwater quality.





Our Mission

We strive to improve ecological resources through engineering design and implementation of sustainable, practical solutions and build closer relationships between our clients, government, and community through outstanding service.

Sustainable Sites Engineering

Stormwater Management

- Low Impact Development
- Green Infrastructure BMPs
- Rain Water Harvesting
- Floodway and Floodplain Enhancement

Policy Administration

- Technical Manual Development and Revisions
- CSO Long Term/Wet Weather Control Plan Review and Revisions
- Development Policy Review
- Drainage Review
- Green Infrastructure Implementation Planning and Incentives

LEED

- Technical Charrette
- Master Planning
- Full Service Sustainable Civil Engineering
- Development Plan Implementation

Wastewater Management

- Ecological Treatment Systems
- Grey Water Re-Use

Regulatory Consultation

- Natural and Cultural Resource Assessments
- Endangered, Threatened and Rare Species Investigation
- Stream Naturalization and Relocation Design
- 404/401 Permit Obtainment and Monitoring
- National Environmental Policy Act (NEPA) Documentation

Watershed Restoration

- Watershed Management Plan Development and Implementation
- Erosion Control and Best Management Practice Inspection
- Funding Identification Assistance
- Comprehensive Drainage Studies



Corporate Office Rain Garden



Our Guiding Principles

PASSION

SUSTAINABILITY

EXCELLENCE

PROFESSIONALISM

TEAMWORK

Ohio Office

247 East Livingston Ave, Suite B
Columbus, OH 43215

Corporate Office

919 North East Street
Indianapolis, IN 46202

Missouri Office

7211 Manchester Ave
St. Louis, MO 63143



www.williams creek.net

info@williams creek.net

1-877-668-8848

