

COSMOS TECHNOLOGIES, INC.



Marcellus Shale Permitting and Water Management Services

**Certified Professionals in Erosion & Sediment Control:
Stormwater Management; Drainage & BMPs Design**

As a progressive multi-disciplined engineering company, Cosmos Technologies, Inc. provides assistance to clients in the areas of permitting and regulatory compliance, gas well site development, and water & wastewater management

Cosmos' services include the completion of all necessary permits and plans to acquire a Pennsylvania Department of Environmental Protection (PADEP) gas well permit in a short turnaround timeframe. Cosmos also provides Civil Engineering/Site Development services and water and wastewater management services. The services include:

Permitting and Regulatory Compliance

- Oil & Gas Well Permitting; Chapter 78
- Standard and Expedited Erosion & Sediment Control General Permit (ESCGP-1); Chapter 102
- Oil and gas waste fluids storage pit/lagoon permitting; Chapter 102
- Well permitting and water withdrawal approvals; Chapter 110
- Waterways and Wetland Encroachment Permit; Chapter 105 (USACE/PADEP Joint Permitting)
- PennDOT Highway Occupancy Permitting (HOP)
- Cultural Resources Management
- Pennsylvania Natural Diversity Inventory (PNDI) Evaluation

Civil/Site Development Services



- Well Pad Design
- GIS mapping and database management
- Site/Utilization Plan Development
- Stormwater Pollution Prevention Plans (SWPPP)
- Access Road Design and Construction Management
- Wetland Delineation, Mitigation Planning and Permitting
- Geotechnical Investigations
- Public Relations Support

Water/Wastewater Management

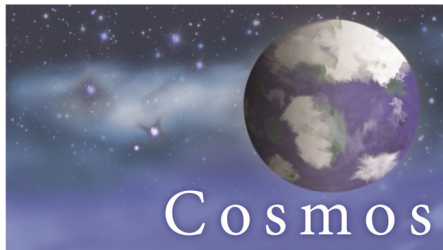
- Centralized water distribution system design
- Fresh Water and Frac Water Storage Pits/Impoundment Design
- Flowback and Produced water treatment and recycling
- Baseline sampling of surface water and groundwater

Preparation of the following:

- Water monitoring and reporting plans
- Waste management plans
- Water management plans
- Site closure and restoration plans
- Spill Prevention, Control and Countermeasure (SPCC) Plans and Pollution Prevention and Control (PPC) Plans
- Alternative Waste Management Practices Approval (OG-71) Form

Contact Information: Frederick Douglas, President
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Cosmos Technologies Inc.

Capability Statement

Cosmos Technologies, Inc. is an award-winning consulting firm located in the North Side of Pittsburgh, PA. Cosmos was founded by Frederick Douglas in 1997 and has grown from one (1) employee-the founder, to ten (10) full-time employees.

Corporate Leadership Stance *“To lead with integrity, creativity and fearlessness; To think cosmically – with the intent to create excellence – not only in terms of wealth, but in the positive growth of human potential”.*

Marcellus Shale Gas Industry Services

- Environmental Permitting
- Well Pad Site Design & Development
- Access Road Design & Construction Management
- Erosion and Sediment Control Plans
- Best Management Practices Inspections
- Fresh Water and Frac Water Storage Pit Design
- Water Management Plans
- Spill Prevention, Control and Countermeasure Plans
- Baseline Sampling of Surface Water and Groundwater
- Safety Audits and Contingency Planning
- Site Design and Development
- Wetland Delineation and Permitting
- PNDI Review
- Cultural Resources Management

Selected Client List

- U.S. Army Corps of Engineers – Baltimore (MD) and Huntington (WV)
- National Energy Technology Laboratory (NETL)
- Allegheny County Sanitary Authority (ALCOSAN)
- Pittsburgh Water & Sewer Authority (PWSA)
- City of Pittsburgh – Department of Public Works
- Port Authority of Allegheny County
- Sports & Exhibition Authority
- Pittsburgh Parks Conservancy
- Riverlife
- AECOM Water
- Michael Baker Jr., Inc.
- HDR Engineers
- Oxford Development
- CDM Smith
- PJ Dick Corporation

Additional Information

Organization: S-Corporation

NAICS:

- 236220 237110 237310
- 541330 541620 541710

Certifications & Specifications:

- M/DBE
- SDB
- PennDOT/ECMS

Grey Water Treatment System
Convention Center, Pittsburgh, PA



Constructed Wetlands Treatment System
Smith Island, MD



Mamet Lock & Dam
Huntington, WV

