



Wetlands/Stream



Historic Structure



Water Sampling



Surveying

Well Site Planning/Development

- Review for presence of Threatened & Endangered Species
- Historical & Archeological Resource search
- Erosion & Sediment Control Plan/Permit
- Well Access Road Permitting
- Pre-drill Water Sampling
- Wetland Crossing Permitting
- Stream Crossing Permitting
- Pollution, Prevention & Contingency Plans
- Municipal Zoning Ordinances/Approvals (noise, building, setback, etc.)

Regulated By: PADEP, PHMC, USFWS, DCNR, PGC, PFBC, PennDOT, CCD, USACE



Water Sampling



Silt Fence



Marcellus Well Site

Well Drilling

- Well Permit & Associated Fees
- Water Sampling
- Well Access Road Permitting
- Well Cement/Casing Reports
- Well Completion Reports
- Municipal Zoning Ordinances/Approvals (noise, building, setback, etc.)

Regulated By: PADEP, PennDOT, CCD, Local Municipalities



Freshwater Impoundment



Waste Water Transportation and Management

Water Supply Storage

- Water Withdrawal Permit/Reporting
- Water Management Plans
- Freshwater & Hydraulic Fracturing water Pit/Impoundment Permitting

Regulated by: PADEP, SRBC, DRBC, USACE, PennDOT



Natural Gas Processing Plant



Historic Structure



Air Permits



Wetlands/Stream

Natural Gas Processing Plants

- Review for presence of Threatened & Endangered Species
- Historical & Archeological Resource search
- Erosion & Sediment Control Plan/Permit
- Plant Access Road Permitting
- Wetland Crossing Permitting
- Stream Crossing Permitting
- Air permits
- Municipal Zoning Ordinances/Approvals (noise, building, setback, etc.)

Regulated By: PADEP, PHMC, USFWS, DCNR, PGC, PFBC, PennDOT, CCD, USACE, USEPA, Municipalities



PROTECTING PENNSYLVANIA'S ENVIRONMENT



Waste Water Transportation and Management

Residual Waste/Wastewater Management

- Hauling Routes/Transportation
- Post drilling water Treatment Facilities Permits (hydraulic fracturing flow-back fluid)

Regulated By: PADEP, PennDOT



Restored Marcellus Well Site

Site Restoration

- Well Site Restoration Plan & Permit
- Pipeline Right-of-Way Restoration
- Post Construction Stormwater Management Plans

Regulated By: PADEP, CCD



Historic Structure



Air Permits



Natural Gas Compressor Station

Compressor Station Construction

- Review for presence of Threatened & Endangered Species
- Historical & Archeological Resource search
- Erosion & Sediment Control Plan/Permit
- Station Access Road Permitting
- Wetland Crossing Permitting
- Stream Crossing Permitting
- Air permits
- Municipal Zoning Ordinances/Approvals (noise, building, setback, etc.)

Regulated By: PADEP, PHMC, USFWS, DCNR, PGC, PFBC, PennDOT, CCD, USACE, USEPA, Municipalities



Pipeline Construction



Historic Structure



Wetlands/Stream

Pipeline Construction

- Review for presence of Threatened & Endangered Species
- Historical & Archeological Resource search
- Erosion & Sediment Control Plan/Permit
- Site Access Road Permitting
- Wetland Crossing Permitting
- Stream Crossing Permitting
- Road Boring Permits
- Municipal Zoning Ordinances/Approvals (noise, building, setback, etc.)

Regulated by: PADEP, PHMC, USFWS, DCNR, PGC, PFBC, PennDOT, CCD, USACE, Municipalities

PADEP	Pennsylvania Department of Environmental Protection
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
CCD	County Conservation District
USFWS	U.S. Fish and Wildlife Service
DCNR	Department of Conservation and Natural Resources
PFBC	Pennsylvania Fish & Boat Commission
PGC	Pennsylvania Game Commission
PennDOT	Pennsylvania Department of Transportation
OSHA	Occupational Health & Safety Administration
SRBC	Susquehanna River Basin Commission
DRBC	Delaware River Basin Commission
PHMC	Pennsylvania Historic Museum Commission
PUC	Pennsylvania Public Utility Council