

**Environmental Violations at Marcellus Shale Drilling Sites
Jan. 1, 2010 – June 18, 2010**

Total # of Marcellus Shale Wells Drilled: 1,458 (2005 – present)
 Total # of Marcellus Shale Wells with Violations: 207 (1/1/10 – 6/18/10)
 % of Marcellus Shale Wells with Violations: 14.2%
 Total # of Violations at Marcellus Shale sites: 565

Violations by Type:

Violation Type	Number
General Violations (Clean Streams Law, Oil and Gas Act, permit conditions)	166
Frac Pit violations (leaks, improper construction, etc.)	115
Illegal disposal of industrial waste (frac fluid, wastewater, etc.)	80
Stormwater runoff violations (includes erosion and sedimentation)	66
Administrative, recordkeeping, or posting violations	64
Failure to notify DEP as required (for incidents, commencement of drilling, etc.)	19
Filled in wetlands or stream without permit or other encroachment violations	18
Failure to properly restore site or plug well	13
Improper cementing/casing of wells	11
Drilling too close to waterway	2
Drilling without a permit	1
Hazardous well venting	1
Other	12

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source: PA Department of Environmental Protection (DEP)