



ORIGINS / MISSION

- The Kentucky AML program emerged as a result of the Surface Mining Control and Reclamation Act (SMCRA) of 1977. AML programs are addressed in Title IV of this act
- AML's Mission is to abate hazards to public health, safety, and the environment caused by coal mining that occurred prior to May 18, 1982

USES OF AML FUNDING

- RECLAMATION
 - Fund construction projects to abate hazards posed by abandoned mines in Kentucky's coal fields.
- WATERLINES
 - Fund water supply replacement projects in coalfield areas where groundwater supplies have been negatively impacted by pre-law (pre-1982) mining.
- ACID MINE DRAINAGE (AMD)
 - Kentucky has used some grant funding to establish an AMD account for long-term treatment and maintenance of AMD sites.
- DIVISION ADMINISTRATIVE EXPENSES

AML PROJECTS for LANDSLIDES

	<u>FY12</u>	<u>FY13</u>	<u>FY14</u>	<u>FY15</u>	<u>FY16</u>
Hazardous Landslides Abated (count)	44	39	28	32	53
Hazardous Landslides Abated (acres)	57	50	29	36.6	45.5
People Removed from Risk (count)	2241	3012	7019	5711	2866
Total Acreage Reclaimed	166	280.6	157	229.5	105.5

LANDSLIDES (before reclamation)



John Stacy Slide, Perry County



Bartley Slide, Pike County



Preston Slide, Johnson County



Landslide Abatement Techniques

- Monitor (Do nothing alternative)
- Drainage Improvements
- Re-grade slide in place
- Total Excavation (Strip to Rock)
- Construction of Retaining Walls

Re-Grade Slide in Place



Cut to Rock



Typical Gabion Walls



Typical Finished Product



Cutshin



Cutshin



Gabion walls, with rail steel



Gabion Wall with Rail Steel



Gabion Wall with Rail Steel



Concrete Walls Combs Branch



Concrete walls



Concrete Walls Muddy Gut



Concrete walls



Gravity Walls



AML WATERLINE ACCOMPLISHMENTS

	FY12	FY13	FY14	FY15	FY16
Water Supply Projects Completed	8	7	7	11	3
Number of Residences Served	802	999	993	847	55
Miles of Waterline Installed	53.62	86.76	67.23	105.08	10.1

To date, AML has expended **\$137.5 million** for waterline improvements and has provided **more than 16,617 households** with potable water supply **in 24 coalfield counties** in eastern, southern, and western Kentucky.

Waterlines can be constructed into areas where groundwater studies determine influence from historic mining



Waterline Projects

