



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Mining Programs

2016 Bond Rate Guidelines for the Calculation of Land Reclamation Bonds on Coal Mining Operations

MRAB Meeting
October 22, 2015

2015 AML Reclamation Grading Costs

- 7 reclamation projects with 1,284,819 total cubic yards
- Cost per cubic yard ranged from \$0.75 to \$1.70
- 3 low bid averages at \$1.04, \$1.24, and \$0.95 for a weighted average of \$1.08
- Current 2013 – 2015 weighted average at \$0.93 for 500 ft. or less
- Additional yardage of 915,110 cubic yards at cost per cubic yard from \$1.50 to \$4.00. Grading from one area to another area or haulage.
- 3 lowest bid averages were \$2.88, \$2.87, and \$3.73 for a weighted average of \$3.16.
- 2 more reclamation projects open for bid with total grading of 1,389.709 cubic yards

2015 AML Reclamation Revegetation Costs

- 6 reclamation projects with 154.9 acres revegetation
- Cost per acre of the 3 lowest bids ranged from \$1,564.06 to \$4,338.97
- Weighted average of 3 lowest bids was \$1,849.32

2015 AML Reclamation Mulch, Seed Bed Preparation and Seed Costs

- Mulch cost per acre of 3 lowest bids was \$749.54
- 3 year weighted average of Mulch cost is \$818.06

- Seed Bed Prep cost per acre of 3 lowest bids at \$190.34
- 3 year weighted average of Seed Bed Prep is \$249.77

- Seed cost per acre of 3 lowest bids at \$254.91
- 3 year weighted average of Seed is \$293.45

2013-2015 Bond Rate Data

2016 Projected with Current Data

	Unit	2015 wgt ave	2015 amt	13-15 Weighted	2013	2014	2015	2016
Grading1	Yd	\$1.08	1,284,819	\$0.93	\$0.90	\$0.90	\$0.95	\$0.90
Grading2	Yd				\$1.20	\$1.20	\$1.20	\$1.50
Select Grading	Acre			\$1,700.76	\$1,075.00	\$1,075.00	\$1,700.00	\$1,700.00
Reveg	Acre	\$1,849.32	154.9	\$1,871.36	\$1,800.00	\$1,800.00	\$1,900.00	\$1,850.00
Trees	each	\$2.41	60,585.0	\$2.19	\$0.15	\$0.15	\$0.75	\$0.75
Ditch Ex	Yd	\$6.89	5,725	\$6.28	\$7.00	\$7.00	\$7.00	\$6.25
Jute	sq yd	\$1.80	480	\$3.88	\$3.80	\$3.80	\$4.00	\$3.80
HV Erosion	sq yd	\$2.97	3,875	\$2.99	\$3.80	\$3.80	\$3.80	\$3.00
AASHTO No. 1	Ton	\$21.83	1,635	\$28.92	\$29.00	\$29.00	\$29.00	\$29.00
AASHTO No. 57	Ton	\$26.67	25	\$32.82	\$30.00	\$30.00	\$30.00	\$33.00
R3	Ton			\$37.09	\$33.00	\$33.00	\$33.00	\$37.00
R4	Ton	\$31.77	61.0	\$28.28	\$25.00	\$25.00	\$25.00	\$28.00
R5	Ton	\$32.20	32	\$27.10	\$25.00	\$25.00	\$27.00	\$27.00
Geotex	sq yd	\$2.24	4,365	\$2.47	\$2.80	\$2.80	\$2.80	\$2.50
PVC lining	sq yd				\$12.00	\$12.00	\$12.00	\$12.00
Lime	Ton	\$51.91	396	\$44.81				
Subdrain	foot	\$24.60	845	\$20.41	\$19.00	\$19.00	\$19.00	\$20.00
Mulch	Acre	\$749.54	154.9	\$818.06				
Seed Bed Prep	Acre	\$190.34	116.3	\$249.77				
Seed	Acre	\$254.91	220.4	\$293.45				

	2016	2016
Reveg Tot	\$1,850.00	\$1,850.00
Mulch	\$800.00	\$800.00
Seed Bed	\$250.00	\$250.00
Seed	\$300.00	
	\$500.00	\$800.00
	Pasture	w/seed



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