



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Mining Programs

# **2018 Bond Rate Guidelines for the Calculation of Land Reclamation Bonds on Coal Mining Operations**

MRAB Meeting

July 20, 2017

# 2017 AML Reclamation Grading Costs

- 2 reclamation projects with 606,800 total cubic yards
- Cost per cubic yard ranged from \$0.65 to \$1.00
- 3 low bid averages at \$0.75, \$0.80, and \$0.76 for a weighted average of \$0.77
- Current 2015 – 2017 weighted average at \$0.96 for 500 ft. or less

# 2017 AML Reclamation Revegetation Costs

- 2 reclamation projects with 60.5 acres revegetation
- Cost per acre of the 3 lowest bids ranged from \$1,509.13 to \$2,702.32.
- Weighted average of 3 lowest bids was \$2,011.07

# 2017 AML Reclamation Mulch, Seed Bed Preparation and Seed Costs

- Mulch cost per acre of 3 lowest bids was \$880.
- 3 year weighted average of Mulch cost is \$870.70.
- Seed Bed Prep cost per acre of 3 lowest bids at \$174.67
- 3 year weighted average of Seed Bed Prep is \$253.65
- Seed cost per acre of 3 lowest bids at \$329.13
- 3 year weighted average of Seed is \$255.98

# 2015-2017 Bond Rate Data 2018 Projected with Current Data

	Unit	2015 wgt ave	2015 amt	2016 wgt ave	2016 amt	2017 wgt ave	2017 amt	15-17 Weighted	2016	2017	2018
Grading1	Yd	\$0.95	3,047,579	\$1.03	1,800,269	\$0.77	606,800	\$0.96	\$0.90	\$0.90	\$0.86
Grading2	Yd	\$3.17	913,610						\$1.50	\$1.55	\$1.60
Select Grading	Acre								\$1,700.00	\$1,700.00	
Reveg	Acre	\$1,977.18	223.3	\$2,129.84	284.8	\$2,011.07	60.5	\$2,057.25	\$1,900.00	\$1,950.00	\$2,000.00
Trees	each	\$2.41	124,450.0	\$3.58	39,581.0	\$2.73	18,600.0	\$2.69	\$0.75	\$0.75	

# 2014-2016 Bond Rate Data 2017 Projected with Current Data

	2016	2016	2017	2017	2018	2018
Reveg Tot	\$1,900.00	\$1,900.00	\$1,950.00	\$1,950.00	\$2,000.00	\$2,000.00
Mulch	\$850.00	\$850.00	\$870.00	\$870.00	\$870.00	\$870.00
Seed Bed	\$250.00	\$250.00	\$280.00	\$280.00	\$250.00	\$250.00
Seed	\$300.00		\$280.00		\$255.00	
	\$500.00	\$800.00	\$520.00	\$800.00	\$625.00	\$880.00
	Pasture	w/seed	Pasture	w/seed	Pasture	w/seed



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