



**Reclamation Liability Worksheet  
(Sudden Stop / No Further Mining Scenario)**

<b>Permittee:</b>	A & G Coal Corporation				
<b>Permit Number:</b>	1101905				
<b>Permit Type (Surface, Deep, AF, etc.):</b>	Surface/Deep				
<b>Date of Analysis:</b>	2/26/2016				
		Avg. Highwall	Unit Cost	Volume	
<b>1. Backfilling and Regrading (see Table):</b>	<u>Length (l.f.)</u>	<u>Height (feet)</u>	<u>(per c.y.)</u>	<u>(c.y.)</u>	<u>Cost</u>
Area 1	460	105	\$ 1.50	187833	\$ 281,750
Area 2	1740	280	\$ 1.50	5052444	\$ 7,578,667
Area 3	960	200	1.5	1422222	\$ 2,133,333
Area 4	650	75	1.5	135417	\$ 203,125
Area 5				0	\$ -
<b>Total Backfilling and Regrading Cost</b>					<b>\$ 10,196,875</b>
			Area to be	Unit Cost	
<b>2. Final Grading of Previously Backfilled Areas:</b>			<u>Graded (Ac.)</u>	<u>(per Ac.)</u>	<u>Cost</u>
Area 1			27.5	\$500.00	\$13,750.00
Area 2				\$500.00	\$0.00
Area 3				\$500.00	\$0.00
Area 4				\$500.00	\$0.00
Area 5				\$500.00	\$0.00
<b>Total Final Grading Cost</b>					<b>\$13,750.00</b>
			Area to be	Unit Cost	
<b>3. Revegetation:</b>			<u>Reveg. (Ac.)</u>	<u>(per Ac.)</u>	<u>Cost</u>
Area 1			300	\$1,000.00	\$300,000.00
Area 2				\$1,000.00	\$0.00
Area 3				\$1,000.00	\$0.00
Area 4				\$1,000.00	\$0.00

Area 5				\$1,000.00	<u>\$0.00</u>
<b>Total Revegetation Cost</b>					<b>\$300,000.00</b>
			Length	Unit Cost	
<b>4. Road Reclamation (N/A for Permanent Roads):</b>			of Road (Ft.)	(per Ft.)	<u>Cost</u>
Road 1			3000	\$1.00	\$3,000.00
Road 2				\$1.00	\$0.00
Road 3				\$1.00	\$0.00
Road 4				\$1.00	\$0.00
Road 5				\$1.00	<u>\$0.00</u>
<b>Total Road Reclamation Cost</b>					<b>\$3,000.00</b>
			Number	Cost per	
<b>5. Pond Removal:</b>			of Ponds	Pond	<u>Cost</u>
Bench Basins:				\$ 5,000	\$0
Embankment Ponds:			5	\$ 15,000	<u>\$ 75,000</u>
<b>Total Pond Removal Cost</b>					<b>\$75,000</b>
			Length of	Unit Cost	
<b>6. Permanent Stream Channel Reconstruction1:</b>			Channel (Ft.)	(per Ft.)	<u>Cost</u>
Channel 1			16303	\$100.00	\$1,630,300.00
Channel 2			14038	\$100.00	\$1,403,800.00
Channel 3			7588	\$100.00	\$758,800.00
Channel 4				\$100.00	\$0.00
<b>Total Permanent Stream Channel Reconstruction Cost</b>					<b>\$3,792,900.00</b>
			Number of	Cost per	
<b>7. Mine Seals (Deep Mines):</b>			Entries	Entry	<u>Cost</u>
Dry Plugs:			2	\$ 1,200	\$ 2,400
Wet Seals:			1	\$ 2,500	<u>\$ 2,500</u>
<b>Total Mine Sealing Cost</b>					<b>\$ 4,900</b>

<b>8. Structure Removal (Lump Sum):</b>					
(\$5000 for surface mines; \$10,000 for deep mines)					
(\$5000 for refuse areas; \$25,000 for AF's)					
<b>Total Structure Removal Cost</b>					
<b>10. Additional Costs (List Below)2:</b>					
	<u>Item Description</u>				<u>Cost</u>
	Coal Storage Silo Reclamation				
<b>Total Additional Costs</b>					<b>\$ -</b>
<b>Subtotal</b>					<b>\$ 14,386,425</b>
<b>9. Mobilization / Contingency (10%)</b>	<b>Mobilization / Contingency:</b>				<b>\$ 1,438,643</b>
<b>TOTAL ESTIMATED COST OF RECLAMATION</b>					<b>\$ 15,825,068</b>
<b><u>Table of Unit Costs for Backfilling / Regrading:</u></b>					
Dozer Push (no blasting required)	\$ 1.25	per cubic yard			
Dozer Push (with blasting above highwall)	\$ 1.50	per cubic yard			
Short Haul (mild grade; less than 1000 feet)	\$ 1.75	per cubic yard			
Short Haul (steep grade; less than 1000 feet)	\$ 2.00	per cubic yard			
Medium Haul (1000 - 2500 feet)	\$ 2.25	per cubic yard			
Long Haul (more than 2500 feet)	\$ 2.50	per cubic yard			

**Footnotes:**

1. For DMME-required channels. Does not apply to Corps mitigation channels not bonded by DMLR.
2. For example: transformer disposal, underground storage tanks, hazardous materials, etc.