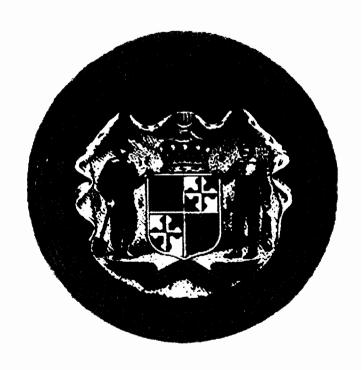
CALENDAR YEAR 2008

EIGHTY-SEVENTH ANNUAL REPORT

Of The

MARYLAND BUREAU OF MINES



HON. Martin O'Malley Governor of Maryland

DEPARTMENT OF THE ENVIRONMENT Shari T. Wilson, Secretary

WATER MANAGEMENT ADMINISTRATION
Jay Sakai, Director

MINING PROGRAM
C. Edmon Larrimore, Program Manager

BUREAU OF MINES
John E. Carey, Director

FOR THE CALENDAR YEAR 2008

STATE OF MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER MANAGEMENT ADMINISTRATION MINING PROGRAM BUREAU OF MINES

FROSTBURG, MARYLAND 21532

LETTER OF TRANSMITTAL

To The Honorable:

Martin O'Malley
Governor of Maryland

Sir:

It is my honor to submit herewith the Eighty-seventh Annual Report of the Maryland Bureau Of Mines for the period of January 1, 2008 through December 31, 2008, in compliance with the mining laws of the State of Maryland. This report provides information pertaining to the conditions of the coal mining industry within the State.

Respectfully submitted,

John E. Carey, Director

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EXECUTIVE SUMMARY

During calendar year 2008, Maryland operators produced 3,048,544.41 tons of coal. Surface coal mining production was 1,217,805.73 tons in Allegany County and 1,112,086.33 in Garrett County. Deep coal mining production was 718,652.35 tons, all in Garrett County.

One hundred-fourteen permitting actions were received and ninety-nine permitting actions were issued, including issuance of five original permits, four permit increments, and fifteen permit amendments, totaling 589 acres. Included in the permitting actions were 27 operator's license renewals. Other permit actions include: modifications, transfers and prospecting permits.

Three hundred ninety-nine acres were affected, 200 acres backfilled, and 288 acres planted. Bond was totally released on 511 acres. There were two permits completed during 2008.

Nine hundred seventy inspections were performed on coal mining operations. Nine Notices of Violations were issued. Fourteen Citizen Complaints were received and investigated and there were zero cessation orders issued. There were zero Bond Forfeitures during this calendar year.

The Land Reclamation Committee met 11 times and approved 11 reclamation plans. The Committee also evaluated the revegetation on 299 acres eligible for Phase II bond release and approved 210 acres as meeting the standards for release. There were five reclamation plan changes during the year.

The Abandoned Mine Lands Section completed 6 projects during Calendar Year 2008. One project, totaling \$21,756.44 was completed using the deep mine fund, that replaced a contaminated water supply in Garrett County near Kitzmiller. One bond forfeiture project was completed, totaling \$304,925, to abate acid mine drainage and perform land reclamation on Permit SM-92-422. Four Maryland/Federal abandoned mine reclamation projects were completed, totaling \$1,355,413.28. These projects eliminated mine drainage that was impacting two houses, provided public water to 46 residences whose private water supplies were contaminated and mitigated flooding to one residence.

The mission of the Acid Mine Drainage Section (AMDS) is to improve the waters of the State impaired by acid mine drainage (AMD) from pre-law abandoned coal mine lands. The Section selects, designs and constructs treatment systems to reduce impairments and restore water quality in the coal region of Maryland, develop partnerships with industry, government agencies, and citizen groups, and makes use of innovative technologies for AMD abatement and treatment. The improvement in water quality through the construction and ongoing operation of AMD treatment systems is well documented for Western Maryland streams. AMDS completed a detailed economic and environmental analysis of the AMD program, initially using 2006 figures with a cost update completed for 2008. Based on this study, the total investment from 1992 through 2008, of the Bureau, by partnering with federal, state, local, and private entities, is \$5.9 million, of which \$426,845 was for the construction of two projects in 2008.

To date, 34 AMD control systems treat 81.5 miles of streams and rivers impaired by pre-law coal mining in Maryland. Since 1993, these systems have cumulatively removed over 37,000,000 pounds of acidity, over 677,000 pounds of iron and 69,000 pounds of aluminum, allowing for the recovery of native and stocked fish populations and the growth of recreational activities. Associated costs for operation were also a part of the study since acid mine drainage remediation has a high operating cost attached to most installed systems, especially active systems like dosers. Dosers are the preferred method of addressing the large, high flow, metal laden discharges from abandoned deep mines. To date, ten active dosing systems have been installed at a total construction cost of \$2.2M and are operating in three watersheds at an annual operating cost of \$351K for lime dosing materials, weekly maintenance and water sample collection and analysis. Since 1993, the doser systems alone have been responsible for removing 31,060,584 pounds of acidity from western Maryland waterways. In addition, the Maryland program has constructed 22 in-ground "passive" type neutralizing systems in five watersheds at a total construction cost of \$3.7M and currently incur an annual operating cost of \$130K for maintenance, water sample collection and analysis. Since 1995, the passive technologies have removed 4,678,169 pounds of acidity from western Maryland waterways. Together all these systems have improved stream water quality, supported the recovery of biological communities and the reintroduction of trout in Cherry Creek, the North Branch of the Potomac, the Youghiogheny and Georges Creek. The return of fishing, boating, and other associated recreational activities has spurred economic revitalization in the North Branch of the Potomac River.

FOR CALENDAR YEAR 2008

MINING PROGRAM

C. Edmon Larrimore	Program Manager, Mining Program Administrator II Administrative Officer I Administrative Specialist
BUREAU OF MINI	ES
John E. Carey	Director, Bureau of Mines Office Secretary III
Abandoned Mine Lands Section	
Michael P. Garner – Section Chief	Water Resources Engineer V Energy Resources Administrator I Water Resources Engineer IV Water Resources Engineer IV
Permitting and Regulatory Section	
Alan V. Hooker– Section Chief	Geologist V Engineer III Geologist III Envir. Compliance Specialist III
Acid Mine Drainage Section	
Constance A. Lyons – Section Chief	Natural Resources Planner V Natural Resources Planner IV Conservation Associate V Conservation Associate IV
Laboratory & Support Services	
Mary Lynn Pegg – Section Chief Julie O'Connor	Geologist V Chemist IV
Mining Inspection and Compliance	
Scott Boylan	Envir. Program Manager Envir. Compliance Specialist III Envir. Compliance Specialist IV Envir. Compliance Specialist III Envir. Compliance Specialist III Administrative Aide

Program Support Staff

FOR THE CALENDAR YEAR 2008 REPORT OF THE MARYLAND BUREAU OF MINES

Coal production in Maryland during 2008 totaled 3,048,544.41 tons. Production in 2008 represents a increase of 619,961.18 tons from the 2007 production of 2,428,583,23 tons.

SUMMARY OF 2008 STATISTICS¹

COAL PRODUCTION

Mining Method	Allegany County	Garrett County	Total
Strip	1,217,805.73	1,112,086.33	2,329,892.06
Deep	.00	718,652.35	718,652.35
Auger	.00	.00	.00
TOTALS	1,217,805.73	1,830,738.68	3,048,544.41

EMPLOYEES²

Type of Mine	Allegany County	Garrett County	Total
Deep	0	88	88
Strip	168	141	309
TOTALS	168	229	397

¹Reports submitted by Maryland mining operators.

²These figures do not include office, supervisor personnel, or independent truck haulers.

FOR THE CALENDAR YEAR 2008 TONNAGE BY COAL SEAMS

	TONNAGE BY COAL SEAMS	
	Allegany County	
Waynesburg		27,427.85
Sewickley (Tyson)		5,879.69
Redstone		238,690.55
Pittsburgh		831,974.76
Morantown		35,389.91
L. Pittsburgh		13,406.25
Franklin		64,625.17
Harlem		0
Bakerstown		0
Freeport		411.58
Kittanning		0
Federal Hill		0
Barton		0
	TOTAL	1,217,805.73
	Garrett County	
Sewickley		32,732.00
Pittsburgh		44,635.93
Morantown		3,974.73
L. Pittsburgh		7,713.16
Franklin		151,088.61
Barton		460,851.76
Elk Lick		24,546.76
Harlem		30,738.44
Bakerstown		483,941.87
Upper Freeport		0
Freeport		383,522.88
Kittanning		0
Redstone		206,992.54
Evans		0
	TOTAL	1,830,738.68
	TONNAGE BY BASIN	
Lower Youahioahe	ny	0
0 0	ny	0
		0
	/ Creek)	0
		1,417,283.23
0		4 004 004 40

TOTAL 3,048,544.41

CALENDAR YEAR 2008 COAL PRODUCTION, MINING AND RECLAMATION STATISTICS FOR ALLEGANY & GARRETT COUNTIES*

*This table includes all permits on which all bonds have been released or forfeited; or permits on which bonds are still held but no production or mining or reclamation activity occurred.

ALLEGANY COUNTY

150.0	121.0	130.0		1,217,805.73			TOTAL ALLEGANY COUNTY
	:			150.93	Redstone		Anna market
;	:			3,809.93	Morantown		
0.0	0.0	1.0		8,257.91	Pittsburgh	453	Walker Bros. Mining, Inc.
0.0	6.0	27.0		211,103.46	Pittsburgh	432	
6.0	14.0	6.0		92,305.93	Pittsburgh	427	
24.0	24.0	69.0		289,308.53	Pittsburgh	393	
40.0	0.0	0.0		0.00	Pittsburgh	338	Vindex Energy Corp.
3.0	3.0	4.0		22,995.06	Franklin	436	
:	;			2,117.78	Waynesburg		
	,	1		110.06	Sewickley		
	:	;		177,868.60	Redstone		
;	;			4,272.10	Morantown		
ı	:			4,533.90	L. Pittsburgh		
18.0	18.0	3.0		29,976.53	Pittsburgh	419	
4.0	4.0	0.0		41,630.11	Franklin	264	Tri-Star Mining, Inc.
	-			411.58	Freeport	**************************************	
;	1	1		2,585.45	Sewickley		
;	;			16,734.61	Redstone		
:	,	;		2,621.06	Morantown		
5.0	5.0	4.0		7,599.02	Pittsburgh	407	
1	1	1		334.61	Morantown		
1	,	1		2,756.30	Sewickley		
;	;	:		21,958.64	Redstone		
28.0	28.0	0.0		24,028.68	Pittsburgh	40	Ritchie Trucking & Excavating, Inc.
:	:			14,036.88	Morantown		
0.0	0.0	0.0		14,036.91	Pittsburgh	451	Mountaineer Mining Corp.
12.0	12.0	7.0		2,407.02	Waynesburg	411	Jenkins Development Co., Inc.
				427.88	Sewickley		
;	1	;		637.69	Morantown		
;	:	1		4,841.42	Restone		
0.0	0.0	8.0		10,541.50	Pittsburgh	403	Heritage Coal & Natural Resources
:				7,342.65	Morantown		
:				8,872.35	L.Pittsburgh		
5.0	5.0	0.0		13,648.70	Pittsburgh	440	G & S Coal Company, Inc.
:				2,600.18	Redstone		
;	;	:		440.49	Morantown		
5.0	2.0	0.0		1,801.28	Pittsburgh	399	Fairview Coal Co., Inc.
1	1	1		251.43	Redstone		
:	1	1		1,019.60	Morantown		
0.0	0.0	1.0		16,275.91	Pittsburgh	437	Cobra Mining, Inc.
0.0	0.0	0.0		41,833.24	Pittsburgh	449	
0.0	0.0	0.0		41,382.70	Pittsburgh	447	
0.0	0.0	0.0		22,903.05	Waynesburg	404	Clise Coal Company, Inc.
	:	;		14,284.74	Redstone		
	:			874.90	Morantown		
0.0 0.0	0.0	4.0		29,874.43	Pittsburgh	359	Beechwood Coal,LLC
Planted	Affected Backfilled Planted	Апестед	Auger	Deep Strip	Worked	Number	Operator
Acres	Acres	Acres		PRODUC	Coal Seam	Permit	•
	A	A					

GARRETT COUNTY

	Permit	Coal Seam	PRO	PRODUCTION (TONS)		Acres	Acres	Acres
Operator	Number	Worked	Deep	Strip	Auger	Affected	Backfilled	Planted
ARJ Construction	D M 111	Barton	429,889.26			0.0	0.0	0.0
Backbone Mountain, LLC	DM112	Bakerstown	288,389.10			0.0	0.0	0.0
G & S Coal Company, Inc.	421	Franklin		23,729.71		7.0	22.0	22.0
	435	Bakerstown		15,064.50		37.0	0.0	0.0
		EK Lick		9,231.00		1	;	:
		Harlem		6,147.89		1	ı	;
	441	Bakerstown		1,011.10		5.0	10.0	0.0
	454	Barton		2,085.70		32.0	0.0	0.0
		Elk Lick		15,315.76		;	;	
		Harlem		19,123.90		ţ	:	:
	455	Harlem		5,466.65		14.0	0.0	0.0
Heritage Coal & Natural Resources	403	Pittsburgh		11,830.90		(See	Allegany	County)
		Morantown		637.68		ı	;	:
		Redstone		3,552.00		1	!	;
		Sewickley		427.87			1	
LAOC Corporation	450	Bakerstown		54,720.49		15.0	7.0	7.0
Mettiki Coal Corporation	428	Bakerstown		124,565.02		42.0	0.0	9.0
Moran Coal Company	445	L.Pittsburgh		7,531.45		5.0	0.0	0.0
	446	Sewickley		31,297.16		23.0	0.0	0.0
Pine Mountain Coal Company	424	Pittsburgh		6,330.49		3.0	1.0	1.0
		Morantown		2,201.17		1	ı	;
		Redstone		1,489.99				
Savage Mountain Minerals, Inc.	448	Barton		28,150.65		3.0	0.0	0.0
Tri-Star Mining, Inc.	419	Pittsburgh		26,474.54		(See	Allegany	County)
		L.Pittsburgh		181.71			:	1
		Redstone		201,950.55			:	;
		Morantown		1,135.88		1	:	;
		Sewickley		1,006.97		1	;	:
		Barton		726.15				
	434	Franklin		112,296.05		7.0	31.0	31.0
	444	Franklin		15,062.85		0.0	4.0	4.0
Vindex Energy Corporation	431	Bakerstown		191.66		0.0	0.0	0.0
	443	Freeport		350,714.94		74.0	4.0	64.0
WPO, Inc.	452	Freeport		32,433.95		2.0	0.0	0.0
Wolf Run Mining, Inc.	DM109	Freeport	373.99			0.0	0.0	0.0
TOTAL GARRETT COUNTY			718,652.35	1,112,086.33		269.0	79.0	138.0
TOTAL BOTH COONTIES			718,652.35	2,329,892.06		399.0	200.0	288.0

FOR CALENDAR YEAR 2008 SUMMARY OF LAND MINED, BACKFILLED, AND PLANTED IN 2008 (By Geological Basin)

The state of the s		ACRES THIS YEAR	IS YEAR		
	Permitted	Affected	Backfilled	Planted	Bond Released*
Allegany County:					
Georges Creek Basin Garrett County:	332.00	130.00	121.00	150.00	346.00
Georges Creek Basin	180.00	13.00	36.00	36.00	0.00
Potomac River Basin	50.00	256.00	4 3.00	102.00	165.00
Casselman River Basin**	0.00	0.00	0.00	0.00	0.00
Cherry Creek Basin	0.00	0.00	0.00	0.00	0.00
Upper Yough Basin	0.00	0.00	0.00	0.00	0.00
Lower Yough Basin	0.00	0.00	0.00	0.00	0.00
TOTAL GARRETT COUNTY	230.00	269.00	79.00	138.00	165.00
TOTAL BOTH COUNTIES	562.00	399.00	200.00	288.00	511.00
				:	

ACRES CUMULATIVE FROM JANUARY 1, 1975 - DECEMBER 31, 2008

11,339.25	15,552.97	15,388.08	17,067.50	20,556.90	TOTAL BOTH COUNTIES
6,069.25	9,854.67	9,753.61	10,308.50	12,327.60	TOTAL GARRETT COUNTY
855.40	1078.16	1,135.06	914.00	1,335.00	Lower Yough Basin
261.50	189.30	215.35	157.35	216.00	Upper Yough Basin
659.95	545.80	578.90	671.50	667.00	Cherry Creek Basin**
1,265.80	1,142.20	1,260.50	1,135.00	1,416.60	Casselman River Basin**
188.00	4,115.40	4,039.00	4,607.70	5,511.00	Potomac River Basin
2,838.60	2,783.81	2,524.80	2,822.95	3,182.00	Georges Creek Basin
					Garrett County:
5,270.00	5,698.30	5,634.47	6,759.00	8,229.30	Allegany County: Georges Creek Basin

^{*}Total Bond Release by the Bureau.
**Total Casselman Geological Basin.

PERMITTING ACTIVITY CALENDAR YEAR 2008

Type of Application		Surface Mines		Un	idergrou Mines	nd		Other Facilities	3		Totals	
	App. Rec.	Issued	Acres	App. Rec.	Issued	Acres	App. Rec.	Issued	Acres	App. Rec.	Issued	Acres
Original Permits	4	4	271	1	0	0	0	1	49	5	5	320
Permit Increments	3	3	88	1	1	32	0	0	0	4	4	120
Modifications/Revisions With Acreage	14	15	149	0	0	0	0	0	0	14	15	149
Modifications/Revisions Without Acreage	33	25		6	3		0	0		39	28	
Transfers	1	1		0	0		0	1		1	2	
Renewals	6	1		1	1		0	0		7	2	
Prospecting Permits	5	4		0	0		0	0		5	4	
Prospecting Letter of Intent	6	6		0	0		0	0		6	6	
Operators License Original	3	3		0	0		0	0		3	3	
Operators License Renewals	25	25		5	5		0	0		30	30	
Totals	100	86	508	14	10	32	0	2	49	114	99	589

FOR THE CALENDAR YEAR 2008 LAND RECLAMATION COMMITTEE

Members:

The following members served on the Land Reclamation Committee during 2008:

DEPARTMENT OF THE ENVIRONMENT REPRESENTATIVES:

Ed Larrimore, Chairman, Water Management Administration John E. Carey, Bureau of Mines

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES:

Jim Mullan, Wildlife Division Robert Webster, Forestry Division Alan Klotz, Freshwater Fisheries

CITIZEN REPRESENTATIVES

Edgar Harman, Garrett County Robert Davis, Allegany County

COUNTY REPRESENTATIVES:

Margaret Jamison, Garrett County Tim Carney, Allegany County

SOIL CONSERVATION DISTRICT REPRESENTATIVES:

Craig Hartsock, Allegany Soil Conservation District Shaun Sanders, Garrett Soil Conservation District

COAL INDUSTRY REPRESENTATIVES:

Tim Schwinabart Vaughn Miller (Jan-August) Jim Ashby (Sept-Dec)

FOR THE CALENDAR YEAR 2008 FUNCTIONS AND DUTIES OF THE LAND RECLAMATION COMMITTEE

The Land Reclamation Committee is responsible for the approval of all reclamation plans submitted, as part of an application for a permit, to the Bureau of Mines and for the oversight of land reclamation activities on surface coal mining operations in Maryland.

The Land Reclamation Committee visits proposed and active mining sites to:

- (1) Determine the suitability of proposed reclamation plans;
- (2) Review mining and reclamation progress; and
- (3) Evaluate the success of revegetation practices.

During 2008, the Land Reclamation Committee conducted site visits on 8 days. These visits included field reviews of 11 proposed mining sites and 25 revegetation sites to evaluate the success of the revegetation.

The Land Reclamation Committee conducts meetings to:

- Review and approve reclamation plans;
- Review reclamation progress on active mining permits;
- 3. Evaluate the revegetation on areas eligible for Phase II bond release;
- 4. Review the surface coal mining laws, regulations and policies and recommend changes to improve effectiveness of the Maryland Regulatory program; and
- 5. Recommend research and cost-sharing projects to promote optimum revegetation of mine lands.

During 2008, the Land Reclamation Committee met 11 times. During these meetings, the Land Reclamation Committee approved 11 reclamation plans, evaluated 299 acres of revegetation eligible for Phase II bond release and approved 210 acres as meeting the standards for release. There were 5 reclamation plan changes during the year.

	Reclamation Results Calendar Year 2008	
Bond Release Phase	Applicable Performance Standard	Acreage Released
Phase I	 Area restored to Approximate original contour Topsoil replaced Area seeded and mulched Completion of all reclamation work on the permit or the open acre limit is reduced 	277
Phase II	 Revegetation established in accordance with approved reclamation plan and standards for success of revegetation met The lands are not contributing suspended solids to stream flow or runoff outside the permit area 	
	 Temporary drainage control structures are removed or all permanent structures are inspected and approved Land Reclamation Committee has inspected and approved the revegetation on the area 	422
Phase III	 Post-mining land use/productivity restored Successful permanent vegetation established Groundwater recharge, quality and quantity restored Surface water quality and quantity restored 	492
	Applicable bond liability period has expired	

2008 RECLAMATION AWARD

Permit No. SM-84-184 Cobra Mining, Inc.

This 12 acre site located east of Barton in Allegany County, Maryland was mined by Cobra Mining Inc. This site, formerly an auger mine prior to being strip mined, has been successfully reclaimed. Cobra Mining has overcome the challenge of reclaiming this steeply sloping area by revegetating with grasses to control erosion. By planting pine and other tree species they have produced forested land that blends well with the surrounding area and once again is productive land.

Past Reclamation Award Winners*

Year	Name of Company	<u>Permit</u>
1984	Bridgeview Coal Company	356
1985	Brashear Coal Company	264
1986	Buffalo Coal Company	366
1987	Delta Mining, Inc.	345
1988	Beener Coal Company	143
1989	Brashear Coal Company	264
1990	Action Mining Company	394
1991	Patriot Mining Company	406
1992	S & G Coal Company	348
1993	Buffalo Coal Company	215
1994	G & S Coal Company	365
1995	John Duckworth Coal	372
1996	Buffalo Coal Company	409
1997	Tri Star Mining Inc.	418
1998	G & S Coal Company	325
1999	Buffalo Coal Company	409
2000	Winner Bros. Coal Company	286
2001	Clise Coal Company	315
2002	Win-More Mining	273
2003	Pine Mountain Coal Company	420
2004	G & S Coal Company	365
2005	Mountaineer Mining Corp.	438
2006	Winner Brothers Coal Company	385
2007	Tri Star Mining Inc	429

^{*}Each year the LRC selects a coal mining operation to receive the reclamation award presented by the Maryland Coal Association. This award is given to an operator that has achieved outstanding reclamation on a permit site.

FOR CALENDAR YEAR 2008 ABANDONED MINE LAND SECTION

The Maryland Bureau of Mines administers two programs to reclaim and restore land and water resources adversely affected by pre-law coal mining practices. These two programs are: (1) Maryland-Federal Abandoned Mine Reclamation Program, implemented utilizing federal funds made available by the federal Surface Mining Control and Reclamation Act of 1977 (U.S. Public Law 95-87) under the authority of Environment Article, Title 15, Subtitle 11 of the Annotated Code of Maryland, and (2) Maryland Mine Reclamation Program implemented utilizing State funds from the Bituminous Coal Open-Pit Mining Reclamation Fund under the authority of Environment Article, Title 15, Subtitle 5; the Deep Mining Fund under the authority of Environment Article, Title 15, Subtitle 6; and the Mine Reclamation and Water Quality Restoration Loan of 1970 under the authority of Environment Article, Title 15, Subtitle 7.

Maryland - Federal Abandoned Mine Reclamation Program

The Maryland Abandoned Mine Land Reclamation Plan received Federal approval on July 16, 1982, thus enabling Maryland to receive Federal funds for the reclamation of abandoned mine lands. During 2008, grants awarded to Maryland by the U.S. Department of Interior, Office of Surface Mining, provided funds for the following abandoned mine land reclamation projects.

FRAZEE SPRUCE HOLLOW FLOOD MITIGATION

Location: 11117 Vale Summit Road, Clarysville, Allegany County Maryland

Nature: Mitigation of increased flooding resulting from the removal of the Spruce

Hollow Railroad Embankment.

Completion Date: June 16, 2008

Contractor: Kiddy Construction, Inc.

Cost: \$27,800.00

Fund Source: MD-Federal AML Funds

MILL RUN WATERSUPPY REPLACEMENT PROJECT

Location: 1 mile south of Barton, Allegany County along Lower Georges Creek

Road and Mill Run Road.

Nature: Extension of the Lonaconing Public Water Distribution System to supply

water to 46 residences whose private water supplies have been impacted

by abandoned mine drainage.

Completion Date: December 30, 2008

Contractor: Carl Belt, Inc Cost: \$1,296,976.00

Fund Source: MD-Federal AML Funds

EVANS MINE DRAINAGE CONTROL PROJECT

Location: 15800 Rockville Street, Lonaconing MD, Allegany County, 21539.

Nature: Installation of subsurface drains to collected and direct mine drainage

away from the Evans and Brode residences and to prevent the drainage

from icing the road during cold weather.

Completion Date:

November 3, 2008

Contractor:

Marshall Ruby and Sons

Cost:

\$23,950.00

Fund Source:

MD-Federal AML Funds

RAILROAD STREET MAINTENANCE PROJECT

Location:

Within the city limits of Lonaconing along Railroad Street.

Nature:

Upgrading of an existing diversion ditch and installation of 300 LF of 18" culvert piping to control groundwater and storm runoff from the Railroad

Street Mine Drainage Control Project (completed in March, 2007)

Completion Date:

August 14, 2008

Contractor:

Bureau of Mines Maintenance Contractor and the Town of Lonaconing

Cost:

\$6,687.28

Fund Source:

MD-Federal AML Funds

Maryland Mine Reclamation Program

During 2008, the Maryland Bureau of Mines accomplished the following reclamation projects utilizing the Bituminous Coal Open-Pit Mine Reclamation Fund, including bond forfeitures or the Deep Mine Fund.

LYTLE WATER SUPPLY REPLACEMENT PROJECT

Location:

3165 Kitzmiller Road, Kitzmiller MD, Garrett County, 21538.

Nature:

Replacement of the existing well due loss of the reservoir into deep mine

voids and fractures located near the bottom of the well.

Completion Date:

September 19, 2008

Contractor:

Waynes Water and Wells

Cost:

\$21,756.44

Fund Source:

State Deep Mine Funds

BUFFALO COAL COMPANY PERMIT SM-92-422 FORFEITURE RECLAMATION

Location:

.5 miles southeast of Lonaconing, Allegany County, Maryland.

Nature:

Land reclamation and AMD treatment system construction for the bond

forfeiture and permit revocation of SM-92-422.

Completion Date:

December 3, 2008 BYCO Enterprises

Cost:

\$304,925.00

Fund Source:

Contractor:

Forfeited Bond (\$240,000) and Bond Supplemental Fund (\$64,925)

ACID MINE DRAINAGE SECTION

The mission of the Acid Mine Drainage Section (AMDS) is to improve the waters of the State impaired by acid mine drainage (AMD) from abandoned coal mine lands. The Section selects, designs and constructs treatment systems to reduce impairments and restore water quality in the coal region of Maryland, develop partnerships with industry, government agencies, and citizen groups, and make use of innovative technologies for AMD abatement and treatment. The improvement in water quality through the construction and ongoing operation of AMD treatment systems is well documented for Western Maryland streams. AMDS completed a detailed economic and environmental analysis of the AMD program, initially using 2006 figures with a cost update completed for 2008. Based on this study, the total investment from 1992 through 2008, of the Bureau, by partnering with federal, state, local, and private entities, is \$5.9 million, of which \$426,845 was for the construction of two projects in 2008.

To date, 34 AMD control systems treat 81.5 miles of streams and rivers impaired by prelaw coal mining in Maryland. Since 1993, these systems have cumulatively removed over 37,000,000 pounds of acidity, over 677,000 pounds of iron and 69,000 pounds of aluminum, allowing for the recovery of native and stocked fish populations and the growth of recreational activities. Associated costs for operation were also a part of the study since acid mine drainage remediation has a high operating cost attached to most installed systems, especially active systems like dosers. Dosers are the preferred method of addressing the large, high flow, metal laden discharges from abandoned deep mines. To date, ten active dosing systems have been installed at a total construction cost of \$2.2M and are operating in three watersheds at an annual operating cost of \$351K for lime dosing materials, weekly maintenance and water sample collection and analysis. Since 1993, the doser systems alone have been responsible for removing 31,060,584 pounds of acidity from western Maryland waterways. In addition, the Maryland program has constructed 22 in-ground "passive" type neutralizing systems in five watersheds at a total construction cost of \$3.7M and currently incur an annual operating cost of \$130K for maintenance, water sample collection and analysis. Since 1995, the passive technologies have removed 4,678,169 pounds of acidity from western Maryland waterways. Together all these systems have improved stream water quality, supported the recovery of biological communities and the reintroduction of trout in Cherry Creek, the North Branch of the Potomac, the Youghiogheny and Georges Creek. The return of fishing, boating, and other associated recreational activities has spurred economic revitalization in the North Branch of the Potomac River.

ACID MINE DRAINAGE SECTION CONSTRUCTION ACTIVITIES

The Acid Mine Drainage Section (AMDS), during the period of January 1, 2008 through December 31, 2008, completed construction of one new acid mine drainage (AMD) treatment systems in Aaron Run, Garrett County and major modifications to the intake structures of the McDonald Mine doser in Allegany County. During the year 2008, AMDS finalized design and applied for permits for two additional AMD remediation projects in the Aaron Run watershed with construction targeted for spring and summer of 2009. Plans and design for one additional project and one project retrofit were completed in 2008 and scheduled for construction in early 2009. Since AMD remediation efforts were initiated in 1992, a total of 34 mine drainage controls have been constructed and are continuously operated and maintained by Bureau of Mines personnel, improving the quality of 81.75 miles of previously impaired stream. Construction costs for the work completed by AMDS in 2008 totaled \$426,845.

AARON RUN - OWENS SOUTH

Federal Grant: EPA Grant

Location: Approximately 1 mile south on Aaron Run Road from Mill Run Road, located

on the west side of the road, near Barton in Garrett County, Maryland.

Size: 1 acre.

Nature, Goal, Type of Treatment System: Construction of a Passive Treatment system to treat about 10 gallons of AMD per minute with a pH 3.5 and an iron concentration of about 100 mg/l and upgrading an existing pond that will include a alkaline leach bed.

Construction Start: July 2008

Construction Completion: December 2008

Estimated Cost: \$394,500

Fund Source: EPA Grant, Watershed Cooperative Grant, ACSI and 30% Set Aside

McDONALD MINE DOSER REVISION PROJECT

PAD: MD-169-SGA Federal Grant: None

Location: One mile south of Barton, MD on the west side of Georges Creek.

Size: 2 acres.

Nature, Goal, Type of Treatment System: Collect the AMD at the mine opening, convey the entire drainage to the doser location through an 8 inch pipe system that includes a by-pass line and a flow meter. This project will ensure a more efficient treatment of the AMD prior to it being

discharged into Georges Creek. The doser will continue to eliminate the impacts of the AMD from the abandoned McDonald Mine on the water quality of

Georges Creek.

Status: Complete

Construction Start: April 2008 Construction Completion: May 2008

Cost: \$32,345

Fund Source: Environmental Trust Fund Annual Allocation from MDNR, Power Plant

Assessment Program

FOR CALENDAR YEAR 2008

MINE FOREMAN AND FIRE BOSS EXAMINATIONS AND CERTIFICATIONS

The number of Mine Foreman and Fire Boss applicants examined and certified from 1994 through 2008 is identified below.

YEAR	APPLICANTS EXAMINED		APPLICANTS CERTIFIED	
LAK	Mine Foreman	Fire Boss	Mine Foreman	Fire Boss
2008	0	8	0	9(1)*
2007	1	12	1	12
2006	6	5	11 (5)*	5
2005	0	0	0	0
2004	1	4	3	4
2003	0	0	0	0
2002	12	2	12	2
2001	0	0	0	0
2000	14	8	14	8
1999	17	5	17	5
1998	13	5	13	5
1997	18	5	18	5
1996	0	0	4	0
1995	0	0	14	0
1994	24	4	24	4

^{(#)*} Certifications issued in accordance with the reciprocity agreement between West Virginia and Maryland.

INSPECTION AND ENFORCEMENT ACTIVITIES 2004-2008

TYPE OF ACTION	2004	2005	2006	2007	2008
Inspections	879	1,019	934	972	970
Notices of Violations	17	26	70	8	9
Cessation Orders	2	0	32	2	0
Citizen Complaints	30	30	27	33	14
Bond Forfeitures	1	0	1	12	0

MINING PERMITS ISSUED BY YEAR AND PERMITTEE

Permit <u>No.</u>	Year <u>Issued</u>	<u>Permittee</u>
1	1955	The George's Creek Lumber Company*
	1955	Allegany Engineering Company*
3	1955	B.M.W. Coal Company*
4	1955	Old Hampshire Coal Company, Inc.*
2 3 4 5 6 7	1955	Car and Gotfelty Construction Co.*
6	1955	M.H. Bigan Coal Company*
7	1955	Moran Coal Company*
8	1955	Allegany Engineering Company*
9	1955	Schell Mining Company, Inc.*
10	1955	B & U Coal Company*
11	1955	Morgan Contracting Company**
12	1955	Romadale Coal Corporation*
13	1955	Cross Fuel Company*
14	1955	Highland Construction Company*
15	1955	Phoenix Big Vein Coal Company
		(Repermitted 338)*
16	1955	Moran Coal Company*
17	1955	T.J. Cramblett**
18	1955	Moscow-Georges Creek Coal Company*
19	1955	J.R. Thrasher Contracting & Stripping Co.*
20	1956	Moran Coal Company (Repermitted 333)*
21	1956	Schell Mining Company, Inc.**
22	1956	Savage Coal Company*
23	1956	Moran Coal Company*
24	1956	The Georges Creek Coal & Land Co.*
25	1957	Charles T. Clise*
26	1957	Allegany Engineering Company*
27	1957	Goodwill Fuel Company*
28	1957	D.B.&B. Coal Company*
29	1957	Queen George's Creek Coal Company**
30	1957	Mack Coal Company**
31	1957	White Crest Coal Company, Inc.**
32	1957	D.B.&B. Coal Company*
33	1957	Moran Coal Company*
34	1957	Chelsie A. Liller*
35	1957	J.E. George Trucking Company**
36	1957	D.B.&B. Coal Company*
37	1957	J.&M. Coal Company**
38	1957	Casey Construction Company**
39	1958	Moran Coal Company*
40	1958	United Energy Coal, Inc. **
40	2008	Ritchie Trucking & Excavating, Inc. (Reinstated in 2008)
41	1958	Buffalo Coal Company, Inc.*
42	1958	Casey Construction Company**
43	1958	Sara-Ki Coal Company, Inc.*

Permit	Year	
No.	<u>Issued</u>	<u>Permittee</u>
44	4050	
44 45	1958	Yantus & Zubek Coal Company*
45 46	1958	Moran Coal Company*
47	1958	Casey Construction Company**
48	1958	Moran Coal Company*
40 49	1958	Moran Coal Company*
50	1958 1958	Sara-Ki Coal Company, Inc.*
51		Laurel Creek Company, Inc.**
52	1958 1958	D.B.&B. Coal Company**
53	1959	Moon and Sons*
54	1959	George L. Smith Contracting Company*
55	1959	The Georges Creek Lumber Company*
56	1959	Moran Coal Company*
57	1959	North Branch Coal Corporation* George Coal Company**
58	1959	Samuel Compton & Company**
59	1959	Hoover & White*
60	1959	Laurel Creek Company, Inc.**
61	1959	The Eddy Fuel Company**
62	1959	J.R. Thrasher Contracting & Stripping Co.*
63	1959	Pittsburgh Coal Company*
64	1959	Mineral Coal Company, Inc., of West Virginia*
65	1959	Laurel Creek Company, Inc.*
66	1959	The Georges Creek Lumber Company*
67	1959	Chelsie A. Liller*
68	1959	Casey Contracting Company**
69	1959	Pine Mountain Coal Company*
7 0	1959	Opel and Brenneman*
71	1959	The Georges Creek Lumber Company*
72	1959	P.&J. Coal Company*
73	1959	Casey Contracting Company**
74	1959	Goodwill Fuel Company*
75 70	1959	D.B.&B. Coal Company*
76	1960	Baughman Contracting Company, Inc.*
77 70	1960	P&K Coal Company*
78 70	1960	Morgan Contracting Company*
79 80	1960	Buffalo Coal Company, Inc.*
81	1960	Buffalo Coal Company, Inc.*
82	1960	Randall Robertson*
83	1960	Hoover & White**
84	1960	James E. George*
85	1960	B.M.W. Coal Company, Inc.*
86	1960 1960	Casey Contracting Company**
87	1960	Beener Coal Company*
88	1960	Moran Coal Company, Inc.*
89	1960	D&K Coal Company* Brenneman Brothers*
	. 500	2. Simoman Biotileis

Permit No.	Year <u>Issued</u>	<u>Permittee</u>
90	1960	Mack Coal Company*
91	1960	Clarence Rodamar*
92	1960	James E. George*
93	1961	Casey Contracting Company**
94	1961	Winner Brothers*
95	1961	Moran Coal Company, Inc.*
96	1961	Big Vein Coal Company*
97	1961	Maryland Fuel Company, Inc.*
98	1961	Yantus-Zubek Coal Company*
99	1961	J.R. Thrasher Contracting & Stripping Co.*
100	1961	Trefall Bros., Inc.*
101	1961	Mack Coal Comany*
102	1961	C.A. Liller Company*
103	1961	Cross & Brumage Coal Company*
104	1961	Beener Coal Company*
105	1961	D&K Coal Company*
106	1961	Mack Coal Company*
107	1961	Yantus and Zubek*
108	1961	Potomac Mining Company*
109	1962	Casey Contracting Company*
110	1962	Wilhelm Coal Company*
111	1962	The Georges Creek Lumber Company*
112	1962	Clark Coal Company*
113	1962	Casey Contracting Company*
114	1962	Casey Contracting Company*
115	1962	Douglas Coal Company*
116	1962	Red Lion Mining Corporation**
117	1962	Ebensburg Coal and Clay Company*
118	1963	James E. George*
119	1963	Ebensburg Coal and Clay Company*
120	1963	J.R. Thrasher Contracting & Stripping Co.*
121	1963	Moran Coal Company, Inc.*
122	1963	Buffalo Coal Company, Inc.*
123	1963	J.R. Thrasher Contracting & Stripping Co.*
124	1963	Win-More Mining & Construction Co., Inc.*
125	1963	Beener Coal Company*
126	1964	W.R. Nethken and Company, Inc.*
127	1964	Mack Coal Company*
128	1964	J.R. Thrasher Contracting & Stripping Co.*
129	1964	J. Russell Cravener*
130	1964	Chelsie A. Liller*
131	1964	The Georges Creek Lumber Company*
132	1964	Brenneman Brothers*
133	1965	W.R. Nethken and Company, Inc.*
134	1965	Richards and Parnell Coal Company*
135	1965	William Brashear*

Permit No.	Year <u>Issued</u>	<u>Permittee</u>
136	1965	W.R. Nethken and Company, Inc.*
137	1965	G&S Coal Company, Inc.*
138	1966	J.R. Thrasher Contracting & Stripping Co.*
139	1966	J.R. Thrasher Contracting & Stripping Co.*
140	1966	Shallmar Coal Company, Inc.*
141	1966	Randall Robertson**
142	1966	Ace Drilling Coal Company, Inc.*
143	1966	Beener Coal Company*
144	1966	Clarence Rodamer*
145	1967	Ginniman Coal Company*
146	1967	Raymond A. Wolf Mining Company*
147	1967	Menallen Coke Company*
148	1967	Russel Shafer*
149	1967	Homage Coal Co. (Emmett Duppstadt)*
150	1967	Twin States Coal Company**
151	1967	M.F. Fetterolf Coal Company, Inc.*
152	1967	Ebensburg Coal and Clay Company*
153	1968	Raymond A. Wolf Mining Co. (UPRC)*
154	1968	Michael Rostosky*
155	1968	Ginniman & Ware Coal Company*
156	1968	Harold H. Upole Coal Company*
157	1968	T.G.&C. Coal Company, Inc.*
158	1969	Clarence Rodamer Coal Company*
159	1969	Michael Rostosky Coal Company*
160	1969	Russel Shafer Coal Company*
161	1969	Buffalo Coal Company, Inc.*
162	1969	J.R. Thrasher Contracting & Stripping Co.***
163	1969	Buffalo Coal Company, Inc.*
164	1969	Union Coal Company*
165	1970	Win-More Mining & Construction Co., Inc.*
166	1970	Ginniman Coal Company*
167	1970	Upperman Coal Company*
168	1970	Frank Pulford**
169	1970	Winner Bros. Coal Company, Inc.*
170	1970	Russel Shafer*
171	1970	The Chief Coal Company*
172	1970	Mary Ruth Corporation*
173	1970	Oakland Coal Company*
174	1971	Bernard C. Drees*
175	1971	Delta Mining, Inc.*
176	1971	D&K Coal Company, Inc.*
177	1971	T.G.&C. Coal Company, Inc.*
178	1971	Emmett Duppstadt*
179	1971 1071	Somerset Excavating, Inc.*
180 181	1971 1971	Ayers Coal Company*
101	1971	Delta Mining, Inc.*

Permit	Year	
<u>No.</u>	<u>lssued</u>	<u>Permittee</u>
182	1971	Patriot Mining Company, Inc.*
183	1971	Chief Coal Company*
184	1971	Cobra Mining, Inc.
185	1971	Bessemer Iron & Coal Company*
186	1971	Coal Lick Coal Company*
187	1971	Phillips Big Vein Coal Company*
188	1971	Ace Drilling Coal Company, Inc.*
189	1971	Buffalo Coal Company, Inc.*
190	1971	Buffalo Coal Company, Inc.*
191	1971	Keystone Coal and Development Company
		(Liability Assumed by Garrett County Roads Department)
192	1971	Ace Drilling Company, Inc.*
193	1972	Wilhelm Coal, Inc.*
194	1972	M.F. Fetterolf Coal Company, Inc.***
195	1972	Buffalo Coal Company, Inc.*
196	1972	Bessemer Iron & Coal Company*
197	1972	Grafton Coal Company*
198	1972	Jet Fuel Coal Company*
199	1972	Bessemer Iron & Coal Company*
200	1972	Chief Coal Company*
201	1972	Brashear Coal Company*
202	1972	Winner Bros. Coal Company, Inc.*
203	1972	Mary Ruth Corporation*
204	1972	Grafton Coal Company*
205	1972	Chief Coal Company*
206	1972	Upperman Coal Company*
207	1972	
207		United Energy Coal, Inc. **
	1973 1073	Sanner Bros. Coal Company*
209	1973	Delta Mining, Inc.*
210	1973	Markat, Inc.*
211	1973	Oakland Coal Company*
212	1973	Bessemer Iron & Coal Company*
213	1973	Clise Coal Company
214	1973	Inter-State Lumber Company*
215	1973	Buffalo Coal Company, Inc.*
216	1973	Brashear Coal Company***
217	1973	Bernard Drees Coal Company*
218	1973	Buffalo Coal Company, Inc.*
219	1973	G&S Coal Company, Inc.*
220	1974	Evans Coal Company*
221	1974	Bridgeview Coal Company*
222	1974	John Duckworth Coal Company*
223	1974	Edward Mikel*
224	1974	Delta Mining, Inc.*
225	1974	Northwest Coal Company, Inc.*
226	1974	Thrasher Coal Company**

Permit No.	Year <u>Issu</u> ed	<u>Permittee</u>
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227	1974	Winner Bros. Coal Company, Inc.*
228	1974	Bittinger Coal Company*
229	1974	Charles M. Filsinger*
230	1974	G&H Coal Company, Inc.*
231	1974	Hi-Note, Inc.*
232	1974	Buffalo Coal Company, Inc.*
233	1974	Oliver Mining Company**
234	1974	Clise Coal Company*
235	1974	Markat, Inc.*
236	1974	Delta Mining, Inc.*
237	1974	Bridgeview Coal Company*
238	1974	Burnham Coal Company, Inc.*
239 240	1974	Highland Mining*
240 241	1974	Buffalo Coal Company, Inc.*
241	1975 1975	Buffalo Coal Company, Inc.*
242	1975	Hopwood Strip Mine, Inc.**
244	1975	Ponderosa Coal Company, Inc.*
245	1975	Markat, Inc.*
246	1975	Phillips Coal, Inc.*
247	1975	Lambert Coal Company*
248	1975	United Energy Coal, Inc. **
249	1975	Buffalo Coal Company, Inc.*
250	1975	Cobra Fuels*
251	1975	Laoc Coal Company*
252	1975	Tower Resources, Inc.*
253	1975	Phillips Coal, Inc.*
254	1975	Pine Mt. Coal Company* T.G.&C. Coal Company*
255	1975	Allegheny Mining Company*
256	1975	Bridgeview Coal Company*
257	1975	A&R Coal Company*
258	1975	Clinton Coal Company**
259	1975	Tower Resources, Inc.*
260	1975	Yough Tree Farm*
261	1975	Russel Shafer***
262	1975	Northwest Coal Company**
263	1975	Allegheny Mining Corporation*
264	1975	Brashear Coal Company
265	1975	Bittinger Coal Company*
266	1975	Delta Mining, Inc.*
267	1975	Bittinger Coal Company*
268	1975	Clyde Marsh Coal Company*
269	1975	Hungry Hollow Coal Company*
270	1975	Clise Coal Company*
271	1975	A&R Coal Company*
272	1975	Action Mining, Inc.*

Permit No.	Year <u>Issued</u>	<u>Permittee</u>
273 274 275	1975 1975	Win-More Mining & Construction * Evans Coal Company*
275 276	1975 1975	Buffalo Coal Company, Inc.* Buffalo Coal Company, Inc.*
277	1975	Allegheny Mining Corporation *
278	1976	Inter-State Lumber Company*
279	1976	Buffalo Coal Company, Inc.*
280	1976	Delta Mining, Inc.*
281	1976	Rondell Company*
282	1976	Phillips Coal, Inc.*
283	1976	G&H Coal Company, Inc.*
284	1976	Tower Resources, Inc.*
285	1976	Clinton Coal Company**
286	1976	Winner Bros. Coal Company, Inc.*
287	1976	T.L. Moran, Inc.*
288 289	1976 1076	Delta Mining, Inc.*
299	1976 1976	Pine Mt. Coal Company*
291	1976	Delta Mining, Inc.* George Nolan**
292	1976	Alexander Coal Co.*
293	1976	Pine Mt. Coal Company*
294	1976	Arlen Miller***
295	1976	Action Mining, Inc.*
296	1976	Bessemer Iron & Coal Company**
297	1977	Oakland Coal Company *
298	1977	Bittinger Coal Company*
299	1977	Inter-State Lumber, Inc.*
300	1977	Garbart Coal Company*
301	1977	Pine Mt. Coal Company*
302	1977	L.C. Coal Company, Inc.*
303	1977	Ginniman Brothers Coal Company**
304	1977	Buffalo Coal Company, Inc.*
305	1977	Wood Products, Inc.*
306 307	1977	Bridgeview Coal Company*
308	1977 1977	T.L. Moran, Inc.*
309	1977	Best Coal Stripping, Inc.** Delta Mining, Inc.*
310	1977	Oakland Coal Company*
311	1977	Primrose Coal Company*
312	1977	R.A.K. Coal Company, Inc.**
313	1977	G&S Coal Company*
314	1977	Wilhelm Coal, Inc.**
315	1977	Clise Coal Company*
316	1977	Brawal Mining, Inc.*
317	1977	John R. Livingston**
318	1977	Winner Bros. Coal Company, Inc. *

Permit No.	Year Issued	<u>Permittee</u>
319 320	1977 1977	John Duckworth Coal Company* Kelley Enterprises*
321	1978	Delta Mining, Inc.*
322	1978 1978	Bridgeview Coal Company*
323 324	1978	Ayers Coal Company* John Duckworth Coal Company*
325	1978	G&S Coal Company, Inc.*
326	1978	Buffalo Coal Company, Inc.
327	1978	Buffalo Coal Company, Inc.*
328	1978	Buffalo Coal Company, Inc. *
329	1978	Winner Bros. Coal Company, Inc.*
330	1978	Inter-State Lumber Company*
331	1978	R.A.K. Coal Company***
332	1978	Seneca Mining Company*
333	1978	Westvaco Corporation*
334	1978	Buffalo Coal Company, Inc.*
335	1978	Inter-State Lumber Company**
336	1978	Inter-State Lumber Company*
337	1978	Kirby Energy, Inc.*
338	1978	Barton Mining Company, Inc.
339	1978	Wilhelm Coal, Inc.*
340	1978	Fetterolf Mining, Inc.*
341	1979	Eastern Mining Systems, Inc.**
342	1979	Primrose Coal Company*
343	1979	L.C. Coal Company*
344	1979	Bridgeview Coal Company*
345	1979	Delta Mining, Inc.**
346	1979	Inter-State Lumber Company*
347	1979	Kelley Enterprises*
348	1979	Schwinabart & Green, Joint Venture*
349	1979	Wilhelm Coal, Inc.**
350	1980	Bridgeview Coal Company*
351	1980	Winner Bros. Coal Company, Inc.*
352	1980	John Duckworth Coal Company*
353 354	1980	Winner Bros. Coal Company, Inc.*
355	1980 1980	Brawal Mining, Inc.* Hi-Note, Inc.*
356	1980	G&S Coal Company, Inc.***
357	1980	Richard Duckworth Coal Company*
358	1980	Bridgeview Coal Company*
359	1980	Buffalo Coal Company, Inc.**
359	2008	Beechwood Coal, LLC. (Reinstated)
360	1980	Buffalo Coal Company, Inc.*
361	1980	Pamela Mines, Inc.**
362	1980	Alpha Mining, Inc.*
363	1980	Pamela Mines, Inc.**
		•

Permit No.	Year <u>Issued</u>	<u>Permittee</u>
364	1980	John Duckworth Coal Company*
365	1980	G&S Coal Company, Inc.*
366	1980	Buffalo Coal Company, Inc.*
367	1980	Buffalo Coal Company, Inc.**
368	1980	United Energy Coal, Inc.**
369	1980	Bittinger Coal Company*
370	1982	Keystone Mt. Development Company*
371	1982	Eagle Mining, Inc.*
372	1982	John Duckworth Coal Company
373	1982	Kirby Energy, Inc. **
374	1982	Winner Bros. Coal Company, Inc. *
375	1982	Win-More Mining & Construction Company *
376	1982	Jones Coal, Inc.**
377	1982	Allegheny Mining Corporation*
378	1982	Delta Mining, Inc.**
379	1982	Masteller Coal Company*
380	1982	Fairview Coal Company (Repermitted 399)*
381	1982	Richard Duckworth Coal Company*
382	1983	Pine Mt. Coal Company*
383	1983	Allegheny Mining Corporation*
384	1983	Evans Coal Company*
385	1983	Winner Bros. Coal Company, Inc.
386	1983	Jones Mining, Inc.*
387	1983	Hilltop Construction Company**
388	1983	Fetterolf Mining, Inc.*
389	1983	Winner Bros. Coal Company, Inc.*
390	1983	C.J. Merio, Inc.*
391	1983	Oak Springs Coal Company*
392	1984	Westvaco Resources, Inc.*
393	1984	Patriot Mining Company, Inc.
394	1984	Action Mining, Inc.*
395	1984	Stan-Jan Excavating, Inc.*
396	1984	Allegheny Mining Corporation*
397	1985	Michael R. McGowan*
398	1985	Brashear Coal Company
399	1985	Fairview Coal Company
400	1985	Delta Mining, Inc.*
401	1985	Buffalo Coal Company, Inc.***
402	1985	Pine Mt. Coal Company*
403	1985	T.D. Mining Company**
403	2003	United Energy, Inc.** (Reinstated in 2008 to Heritage Coal and Natural Resources)
404	1986	Clise Coal Company
405	1986	Jones Coal, Inc.**
406	1986	Patriot Mining Company, Inc.*
407	1986	Ritchie Trucking & Excavating
408	1986	Tri Star Mining, Inc.*
409	1986	Buffalo Coal Company, Inc.*

Permit	Year	
<u>No.</u>	<u>Issued</u>	<u>Permittee</u>
410	1987	J. Walter Wassell*
411	1987	Jenkins Development Company
412	1987	John Duckworth Coal Company***
413	1988	Buffalo Coal Company, Inc.*
414	1989	United Energy Coal, Inc.**
415	1989	Pine Mt. Coal Company*
416	1989	Action Mining, Inc.*
417	1989	Tri Star Mining, Inc.*
418	1991	Tri Star Mining, Inc.*
419	1991	Tri Star Mining, Inc.
420	1991	Pine Mt. Coal Company *
421	1992	G&S Coal Company, Inc.
422	1992	Buffalo Coal Company, Inc. **
423	1992	United Energy Coal, Inc. **
424	1995	Pine Mt. Coal Company
425	1995	Tri Star Mining, Inc.*
426	1996	Tri Star Mining, Inc.*
427	1996	Vindex Energy Corp.
428	1997	Mettiki Coal, LLC
429	1997	Tri Star Mining, Inc.
430 431	1998	G&S Coal Company, Inc.
432	1998 1999	Patriot Mining Company, Inc.
433	1999	Vindex Energy Corp.
434	1999	Win-More Mining & Construction Tri Star Mining, Inc.
435	2000	G&S Coal Company, Inc.
436	2000	Tri-Star Mining
437	2000	Cobra Mining, Inc.
438	2001	Mountaineer Mining Corp.
439	2001	Vindex Energy Corp.
440	2001	G&S Coal Company, Inc.
441	2002	G&S Coal Company, Inc.
442	2002	Vindex Energy Corp.
443	2002	Vindex Energy Corporation
444	2003	Tri Star Mining, Inc.
445	2004	Moran Coal Company
446	2004	Moran Coal Company
447	2005	Jenkins Development Company
448	2005	Savage Mountain Minerals, Inc.
449	2005	Clise Coal Company
450	2006	LAOC Corporation
451	2006	Mountaineer Mining Corporation
452	2006	WPO, Inc.
453	2007	Walker Brothers Mining, Inc.
454	2007	G&S Coal Company, Inc.
455	2008	G&S Coal Company, Inc.

DEEP MINES

DM 101	1977	Mettiki Coal, LLC
DM 101	1977	Masteller Coal Company*
DM 102 DM 103	1977	Mt. Top Coal Company*
DM 103	1977	Mettiki Coal Corporation
DM 104 DM 105	1977	Mettiki Coal Corporation
DM 105 DM 106	1978	A&J Coal Corporation**
DM 100		•
DM 107	1982 1989	Masteller Coal Company* Wolf Run Mining
DM 108	1991	•
DM 109	1992	Wolf Run Mining Masteller Coal Company **
DM 110	2000	ARJ Construction
DM 112	2003	Backbone Mountain, LLC
Permit	Year	
No.	<u>Issued</u>	<u>Permittee</u>
TIPPI ES AN	D GOB PILES	
SC-83-101	1983	Buffalo Coal Company*
SC-83-101	1983	Buffalo Coal Company*
SC-83-103	1983	Buffalo Coal Company*
SC-83-104	1983	Buffalo Coal Company **
SC-08-104	2008	Beechwood Coal, LLC (Reinstated)
SC-83-105	1983	Buffalo Coal Company*
SC-83-106	1000	Permit Not Issued
SC-83-107	1983	Delta Coal Sales, Inc.**
SC-83-108	1984	Delta Coal Sales, Inc.*
SC-83-109	1001	Permit Not Issued
SC-83-110	1983	United Energy Coal, Inc. **
SC-83-111	1983	Westvaco Corporation*
SC-83-112	1983	United Energy Coal, Inc.*
SC-83-113		Permit Not Issued
SC-83-114	1984	Ever, Inc.*
SC-83-115		Permit Not Issued
SC-87-116	1987	Franklin Coal Yard, LLC
SC-87-117	1987	Tri Star Mining, Inc.
SC-87-118	1987	Vindex Energy Corp.
SC-06-119	2006	Clise Coal Company, Inc.
SC-07-120	2007	G&S Coal Company, Inc.

Operation Completed and Bond Released Forfeiture of Bond
Not Activated