CALENDAR YEAR 1998

SEVENTY-SIXTH ANNUAL REPORT

of the

MARYLAND BUREAU OF MINES



HON, PARRIS N. GLENDENING Governor of Maryland

DEPARTMENT OF THE ENVIRONMENT JANE T. NISHIDA, Secretary

WATER MANAGEMENT ADMINISTRATION J. L. HEARN, Director

MINING PROGRAM
C. EDMON LARRIMORE, Director

BUREAU OF MINES JOHN E, CAREY, Director



MARYLAND DEPARTMENT OF THE ENVIRONMENT

2500 Broening Highway • Baltimore Maryland 21224 (410) 631-3000 • 1-800-633-6101 • http:// www mde state md us

Parris N Glendening Governor Jane T. Nishida Secretary

Water Management Administration Bureau of Mines 160 South Water Street * Frostburg, Maryland 21532 Telaphone: (301)689-6104

A MESSAGE FROM THE SECRETARY

Protecting and restoring Maryland's environment requires the participation and cooperation of all members of society, including businesses, citizens, and all levels of government. MDE's primary mission is to protect and restore the quality of Maryland's air, water and land resources for the benefit of the environment, public health and future generations, while also supporting and balancing economic development to ensure an excellent quality of life for all Marylanders. We believe that a strong economy and a clean environment, not only go hand-in hand, but are mutually reinforcing. The information in this publication is designed to increase your understanding of our programs.

Jane T. Nishida



TABLE OF CONTENTS

<u>Pa</u>	3
Executive Summary	
Mining Program Personnel	
Summary of Statistics - Coal Production	
Summary of Statistics - Employees	
Tonnage by Coal Seams, County and Basin	
Historical Coal Production	
Production, Mining, and Reclamation Statistics by Permit	
Summary of Land Mined, Backfilled and Planted	
Licenses, Permits, Forfeitures, and Completions	
Land Reclamation Committee Membership	
Land Reclamation Committee Functions and Duties	
Revegetation of Surface Mined Land	
Abandoned Mine Land Reclamation	
Mine Foreman and Fire Boss Examinations and Certifications.	. 1
Inspection and Enforcement Activities	. 1
Mining Permits Issued by Year and Permittee	

EXECUTIVE SUMMARY

During Calendar Year 1998, Maryland operators produced 4,018,419 tons of coal. Surface coal mine production was 738,196 tons - 535,721 in Allegany County and 202,475 in Garrett County. Deep coal mine production was 3,280,224 tons, all in Garrett County.

During calendar year 1998, two new permits were issued and 4 permit amendments were issued. Three hundred sixty-one acres were permitted.

Three hundred twenty-two acres were affected, 206 acres backfilled, and 153 acres planted. Bond was released on 414 acres. Three permits were completed, with bond being totally released. There was one permit forfeited.

One thousand fifty-eight inspections were performed on coal mining operations. Thirteen Notices of Violations were issued. Twenty-four Citizen Complaints were received and investigated.

The Land Reclamation Committee met 5 times and approved 2 reclamation plans. The Committee also evaluated the revegetation on 237 acres eligible for Phase II bond release and approved 137 acres as meeting the standards for release.

During 1998, grants awarded to Maryland by the U.S. Department of Interior, Office of Surface Mining, provided \$2,459,572 for the reclamation of abandoned mine lands. Approximately 55 acres of abandoned mine lands were reclaimed.

FOR CALENDAR YEAR 1998

MINING PROGRAM C. Edmon Larrimore. Director, Mining Program

Ruth D. Booth. Administrator

BUREAU OF MINES
John E. Carey
Administrative and Systems Support Services
Robert Harris Office Secretary II J. Edward Lyons
Abandoned Mine Lands Section
Fred L. Bagley Interim Section Chief John C. Eilers Energy Resources Administrator I Michael P. Garner Water Resources Engineer III Bradley Nee
Coal Permitting Section
Stephen M. Layton Section Chief Mark Carney Water Resources Engineer III Alan V. Hooker
Planning, Research & Development Section
Constance A. Lyons

FOR THE CALENDAR YEAR 1998

REPORT OF THE MARYLAND BUREAU OF MINES

Coal production in Maryland during 1998 totalled 4,018,419.36 tons. Production for 1998 represents an decrease of 138,232.01 tons from the 1997 production of 4,156,651.37 tons.

SUMMARY OF 1998 STATISTICS'

COAL PRODUCTION

Mining	Allegany	Garrett	
Method	County	County	Total
Strip	535,720.69	202,474.82	738, 195.51
Deép	.00	3,280,223.85	3,280,223.85
Auger	.00	.00	.00
TOTALS	535,720.69	3,482,698.67	4,018,419.36
•			

EMPLOYEES

Type of Mine	Allegany County	Garrett County	Total
Deep Strip	0 102	294 60	294 162
TOTALS .	102	354	456

Reports submitted by Maryland mining operators.

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

Raymond Karlstrand Field Supervisor Larry Johnson Environmental Inspector II Thomas P. Murray Environmental Inspector II

Bureau of Mines Laboratory

Mining Inspection and Compliance

FOR THE CALENDAR YEAR 1998 TONNAGE BY COAL SEAMS

Waynesburg														43,555.92
Sewickley (Tyson)														26,682.55
Redstone														81,982.70
Pittsburgh														238,980.38
Morantown														60,866.74
L. Pittsburgh														39,076.97
Franklin														44,055.98
Harlem						-					• [11,000
Bakerstown														519.45
Freeport														0
Kittanning														ŏ
Federal Hill														Š
														ŏ
Barton	•		-			•	•	•	•	•	•	٠	•	535 730 60
			10	LAL		•	•	•	•	٠	٠	٠	•	535,720.69
			· · · Ga	rre	tt	Co	un	tv	•					
Sewickley	-						_	_						- '0
Pittsburgh										-	•	•		10,169.36
Morantown														9,377.98
L. Pittsburgh														3,3,7.30
Franklin														44,831.17
Barton														3,086.75
Barton	•			•		•	•	•	•	•	•	•	•	, ,
Elk Lick	-			•		•	•	•	•	•	•	. •	•	- 0
Harlem													•	225 540 55
Bakerstown														285,548.52
Brush Creek														0
Freeport														3,107,602.76
Kittanning														20,558.55
Redstone	-			• .		•	•	•	•	•	•	•	•	1,523.58
•			TO	TAL		-								3,482,698.67
			TON	RTB C	- I	v	מם	C T	N.T					. ,
Lower Youghiogheny			101	-	. .	,,								0
Upper Youghiogheny	•			•		•	•	•	•	•	•	•	•	. 0
														Š
Casselman		٠. ٠		•		•	•	•	•	•	•	•	•	0
Casserman (Cherry	CI	sek)		•		•	•	•	•	•	•	•	•	3 435 360 05
Potomac	•			•		•	•	•	•	•	•	•	•	3,435,368.85
George's Creek	•		٠	-:-		•	•	•	•	٠	•	•	•	573,050.51
·			TO	IXL		•	•	•	•	•	•	•	•	4,018,419.36

HISTORICAL COAL PRODUCTION BY COUNTY AND TYPE OF MINING

	ALLEGANY CO.				GARRETT CO		
YEAR	STRIP*	DEEP	TOTAL	STRIP	OPPD	Author	SIAIS
					Total .	70101	TOTAL
1998	- 535,720.69	:	535,720.69	202,474.82	3,280,223.85	3.482,698.67	26 018 410 36
1997	614,588.94	:	614,588.94	267,874.42	3,274,188,01	3.542.062.43	4 156 661 33
1996	599, 799.11		599, 799.11	176,706.53	3, 186, 347, 63	3.363.054.16	3 042 053 37
1995	633,185.42	:	633,185.42	147,775.51	2,848,570,41	2.996.345.72	3 630 631 34
1994	631,249.25	:	631,249.25	165,890.01	2,803,048,97	2. 968. 918 98	2 600 100 1
1993	507,668.57	:	507,668.57	341,867.55	2,507,016,83	2 848 984 38	7 766 667 06
1992	698,015.37	:	698,015.37	357, 935, 69	2.383.314.12	2 741 249 81	400,000,000
1991	781,671.55	•	781,671,55	378,832,57	2.542.364.32	2 921 196 89	3 101 676 176
1990	1,056,810.54	;	1,056,810.54	457,300,32	1, 999, 527, 34	2 456 927 66	1 613 C13 C
1989	867,025.49	;	_	675, 160, 16	1.826.443.65	2.501.603.81	7.010,010,0
1988	562, 139.94	:	562, 139.94	642,948.91	2.014.828.42	2.657.7733	3 310 613 33
1987	790,903.09	1		810,166,55	2, 332, 554, 30	- 1 142 720 BE	10.117.117.1
1986	696,377.39	;	696,377.39	786.429.97	2.572.505.11	מט אנט אלר ר	PK . 170 . 170 . 1
1985	543,960.99	;		676,274.41	1.842,595,67	2.518.870.08	7 063 631 63
1984	730, 135.35	:	730,135.35	1,145,507.03	2, 117, 657, 44	3.263.164.47	3 002 200 03
1983	568,716.82	:	568,716.82	981, 550.36	1,536,568,39	2 518 118 75	1 000 DOG 67
1982	814, 102.63	;	814, 102.63	1,058,360.96	1,587,428,07	2.645.789.03	1 450 001 66
1981	1,275,576.42	:		1,272,911,65	1.903.071.24	175 000 000	00.100,000,000,000,000,000,000,000,000,0
1980	1,122,817.48	:	1,122,817.48	1,143,643.80	1.493.630.97	2. 617. 274. 2	10.000 OAC 6
1979	761,655.93	;	761,655.93	1.067.180.13	BA7. 781. 01	1 954 961 14	7 776 617 01
1978	1,082,370.39	;	1,082,370.39	1.389,078.89	379. R72. K1	1 768 951 FO	7 961 221 00
					-	77. 100 11	K9-17F'TC9'5

*Figure includes coal removed by the auger method.

CALENDAR YEAR 1986 COAL PRODUCTION, MRHING AND RECLAMATION STATISTICS FOR ALLEGANY & GARRETT COUNTREST

"This table includes all permits on which there was production, maing, beddfang or planting activity. This table does not include permits on which all bonds have been released or forfeited; or permits on which bonds are still hald but no production or miring or

ALLEGAMY COUNTY

	Permit	Con Seam		PRODUCTION (TONS)		Yes.	Acres	Acres
Operator	Number	Worked	G G	al S	Auger	Affected	Beckfilled	Prented
Barton Mining Company, Inc.	928	Pettoburgh		17.270.00	,	00	9	90
		L. Prinsburgh	,	16,577.00		1	'	
:		Morantown		8,920.00	· · .	1		
		Sewicidary		4,703.00	٠.	1	•	1
	427	Patterna		46,528.00	,	2.0	0.0	00
,		L. Pitterson		9,300.00		•	1	'
	,	Morandom		24,864.00		•	١	•
		Squatching		1,088.00		1	1	
		Redstone	-	9,463.00		1		-
Bresthear Cost Mines	782	Pittery		2,002.66		70.0	0.76	37.0
		Monantown		222.80	,	1	, .	
		Franklin		37,938.68		٠	•	
	902	Beitemitzen		618.45	-	0.0	00	00
Buffalo Coal Co., Inc.	328			Corruptee		0.0	29.0	290
	425	Patterna		30,148,62	,	98	13.0	13.0
**-		L.Pitteburgh		11,143.87		•		
		Pedatore		13,643.30	•	. •	1	ı
		Morentown		10,160.41			,	1
	9C101			000	. ,	2	4.0	0.4
Clise Cost Co., Inc.	C12	Waynesburg	,	7,788.40		25.0	2.0	2.0
	•			000		0	0.0	•
Cobra Mittang, Inc.	3	Franklin		6,117,30		- 5	00	
Ferview Cost Co., Inc.	88	Tables .		1,100.53		0.0	0.0	00
		Redstone	,	7,962.06	;	•	1	1
G & S Cost Company, Inc.	064	Plateurgh		7,984.26		21.0	0.0	0.0
		Monantown		3,804.70		•	1	1
Jankins Development Co. Inc.	411	Washardam		21.75.28 21.75.28		4,0	3.0	

	Permit	Cost Seem		PRODUCTION (TONS)		ACTES	Acres	Acres
Operator	Number	Worked	Deep	Strip	Auger	Affected	Beckfilled	Plented
To Stee Mound by	419	Pitteburgh		47,987.27		14.0	11.0	9.5
		Monantown		15,705.03		ì		
		Sewickley		19,127.09		1	1	1
:	,	Redstone		13,930.51	r	: 1		1
Win-More Mining & Const. Co., Inc.	27.3	Pettsburgh		2,284.01		0.0	00	0.0
		Reditions		3,224.83		1	. 1	¦
	•	- Monantoen	•	129.80	,	, ¹ .	1	1
Winner Bros. Cost Co., Inc.	\$	Pitteburgh		28,620.13		4.0	20	0.6
		Redetone		30,463.14		1	1	1
`.	207	Personal		243.90		90	00	0.0
	. 247	Topic Control	1	29,643.50	:	6.0	130	9
		Seerchiev		1,764.46		1	1	
		Radelone		2,342,38		1	ı	1
	318	-		000		5.0	15.0	0.0
	28	Radstone		711.13		00	00	9
	988			000		7.0	6.	00
	360	Patteburgh		1,223.85		0.0	0.0	0.0
	Ş	Pittsburgh		10,166.77		00	0.0	0.0
	414	Pitter		10.007,4		0.0	0.0	0.0
		Redstone		202.36		1	1	1
						1		

GARRETT COURTY

	Permit	Coal Seem	¥.	PRODUCTION (TONS)		VO.	Acres	Acres
Operator	Number	Worked	Deep		Auger	Affected	Beckfilled	Planted
1 6 TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	792	Freezon		W 272 37	l I	2	2	8
	}	Killerreing		545.75		1		2
G & S Coal Company, Inc.	365	U.Freeport		14,365.06		0.87	00	00
		M.ICharming		. 20,012.80		1		
	421	Franklin		21,859.02		17.0	17.0	17.0
Patriot Mining Co., Inc.	Diatop	-	285,548,52			00	00	0
Prie Mountain Coal Company	707	Pittaburgh		7,160.07		5.0	2	2
	•	Monandown		6,620.95		1	•	! 1
		Redstone		1,022.30	:	` t		!
Tri-Star Mining, Inc.	410	Pittsburgh		3,009.29		88 ()	Alecany	County
		Monandown		2,757.03		į		
		Redstone		501.28		1	ļ	•
	425			Complete		0,0	12.0	12.0
* .	2	Berton		2,372.17		•	3.0	30
	8	Franklin		22,172.16		19.0	9	7
		Barton		714.50		1	. 1	! '
Mettiki Coal Corporation	DM4101	Freeport	2,994,675.33			00	0.0	00
TOTAL GARBETT COUNTY			3,250,223,86	202,074.02		87.00	67.00	37.00
TOTAL BOTH COUNTIES			3,230,223,68	738,196.84		07 121	208.00	163.00

FOR CALENDAR YEAR 1996 SUBGARY OF LAND MINED, BACKFILLED, AND PLANTED IN 1998 (By Geological Basin)

					Bond
	Permitted	Affected	Backfilled	Planted	Released*
Allegany Councy:					
Georges Creek Basin	47.00	228.50	139.00	116.00	167.00
Garrett County:	-	•			-
Georges Creek Basin	67.00	26.00	22.00	20.00	193.00
Potomac River Basin	247.00	67.00	45.00	17.00	54.00
Casselman River Basin**	00.0	0.0	00.00	0.00	0.00
Cherry Creek Basin	00.0	00.00	00.0	0.00	00.00
Upper Yough Basin	00.0	0.00	0.00	00.0	00.00
Lower Yough Basin	00.0	00.0	00.00	00.0	00.00
TOTAL GARRETT COUNTY	314.00	93.00	67.00	37.00	247.00
TOTAL BOTH COUNTIES	361.00	321.50	206.00	153.00	414.00
Allegany County:		ir		,	
Georges Creek Basin Gerrett County:	6,546.00	5,319.50	4,818.47	4,865.30	3,893.00
Georges Creek Basin	2,476.00	2,438.95	2,251.85	2,511.01	2,544.10
Potomac River Basin	4,513.00	3,327.70	3,478.80	3,574.70	3,678.10
Casselman River Basin**	1,416.60	1,135.00	1,260.50	1,142.20	1,230.80
Cherry Creek Basin**	667.00	671.50	578.90	545.80	659.95
Upper Yough Basin	216.00	157.35	215.35	189.30	261.50
Lower Yough Basin	1,335.00	914.00	1,135.06	1078.16	855.40
TOTAL GARRETT COUNTY	10,623.60	8,644.50	8,920.46	9.041.17	9,229.85
TOTAL ALLEGANY COUNTY	17.169.60	13,964,00	13,738.93	13,906.47	13,122.85

9

. .

*Total Bond Release by the Bureau.

FOR CALENDAR YEAR 1998

AND COMPLETIONS PERMITS, FORFEITURES, LICENSES, Q. SUMMARY

FOR THE CALENDAR YEAR 1998 LAND RECLAMATION COMMITTEE

Members:

The following members served on the Land Reclamation Committee during 1998:

DEPARTMENT OF THE ENVIRONMENT REPRESENTATIVES: David Fluke (Chairman), Water Management Administration Stephen M. Layton, Bureau of Mines

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES: Ed Golden, Wildlife Division Robert Webster, Forestry Division Robert Davis, Freshwater Fisheries 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:

Jerry Duckett Tim Schwinabart

FOR THE CALENDAR YEAR 1998

Functions and Duties of the 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 1998, the Land Reclamation Committee conducted site visits on 8 days. These visits included field reviews of 3 proposed mining sites, 24 revegetation planting reports, and 1 special field visit.

The Land Reclamation Committee conducts meetings to:

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

During 1998, the Land Reclamation Committee met 5 times.

During these meetings, the Land Reclamation Committee approved 2 reclamation plan, evaluated 237 acres of revegetation eligible for Phase II bond release, approved 137 acres as meeting the standards for release, and approved two land-use changes.

FOR THE CALENDAR YEAR 1998

REVEGETATION OF SURFACE MINED LANDS

A permittee must submit a backfilling and planting report to the Bureau of Mines after planting is completed. When this eport is approved by the Bureau, a minimum bond liability period of five years begins. All reclaimed permit areas may have bonds reduced (Phase II) after two years, and totally released (Phase III) after five years from the approved planting date. The Phase II bond may be released when:

- The revegetated area is not contributing suspended solids to stream flow or runoff outside of the permit area in excess of the requirements of the regulatory program;
- All temporary drainage control structures are removed and the affected area is regraded, seeded and mulched; or, all permanent structures are inspected and any deficiencies are repaired;
- With respect to prime farmlands, soil productivity has been returned to the level of yield required;
- Revegetation has been established in accordance with the approved reclamation plan and the standards for success of revegetation have been met; and

When all of the above requirements have been achieved, a longer evaluation time may still be required if the health conditions of the revegetation are questionable. The Phase III bond on an area may be released when the permittee has successfully completed reclamation operations in accordance with the approved reclamation plan, achieved compliance with the requirements of the regulatory program, and the applicable liability period has expired.

Bonds cannot be released until the required work is completed, the appropriate evaluation time has elapsed, and the permittee submits a complete application for bond release to the Bureau. During 1998, the Bureau released Phase II bond on 350 acres, Phase III bond on 414 acres, and totally released bond on three permits.

In January of each year, a listing of acres eligible for Phase II and Phase III bond releases during the calendar year is compiled and available from the Bureau of Mines.

the state of the s

12

CALENDER YEAR 1998 ABANDONED MINE LAND PROGRAM :/

The Maryland Bureau of Mines administers the Abandoned Mine Lands Program to reclaim and restore land and water resources adversely affected by past coal mining. The Abandoned Mine Land Program utilizes several fund sources to accomplish these goals.

- The Maryland-Federal AML Fund made available under the Federal Surface Mining Control and Reclamation Act of 1977 (U.S. Public Law 95-87) and Environmental Article, Title 15, Subtitle 11 of the Annotated Code of Maryland.
- The Deep Mine Fund made available under the Environmental Article Title 15, Subtitle 6 Annotated Code of Maryland.
- The Water Quality Restoration Loan of 1970 made available under the Environmental Article, Title 15, Subtitle 7 Annotated Code of Maryland.
- Small Creeks and Estuaries Water Quality Restoration Cost-Share Program.

The Maryland Bureau of Mines also administers the Bituminous Coal Open-pit Mining Reclamation Fund made available under the Environmental Article Title 15, Subtitle 5 of the Annotated Code of Maryland. These funds are used to reclaim existing mines for which the mining permit has been revoked and the bond forfeited. The monies received from bond forfeitures and the Bond Supplemental Reserve are used to reclaim lands affected by existing mining operations for which the reclamation liability was charged to the bonds. The Bond Supplemental Reserve is utilized when the bond is not sufficient to cover the reclamation costs.

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 1998, grants awarded to Maryland by the U.S. Department of Interior, Office of Surface Mining, provided \$2,459,572 for the reclamation of abandoned mine lands. Approximately 55 acres of abandoned mine lands located in Allegany and Garrett Counties, Maryland were reclaimed during the 1998 calendar year.

PROJECTS COMPLETED IN 1998

Maryland - Federal Abandoned Mine Land Fund

Devault Mine Drainage Control Project

Scope: Construction of a subsurface pipe and surface ditches to intercept and divert acid mine

drainage impacting a garage and house in Midland,

Maryland.
Size: 3 acres

Cost: \$ 29,905.72

Midland Ballfield Flood Prevention Project

Scope: Who Excavation of coal refuse from the Georges Creek

floodplain to alleviate flooding of the Midland

Ballfield.
Size: 3 acres

Cost: \$ 55,000.00

Ross-Davis Water Line Installation Project

Scope: Construction of a 2500 lf extension of the Public Water Distribution System to provide potable water to residences impacted by the T&L Coal Co.

interim program bond forfeiture.

Size: 14 75 acres

Cost: \$115,000.00

Hilltop Abandoned Mine Project

Scope: Reclamation of abandoned spoil in conjunction with Surface Mine Permit SM-95-425 to stabilize

and prevent erosion.

Size: 5.2 acres

Cost: \$ 52,611.14

Kempton Airshaft Doser Installation_Project

Scope: Fabrication and installation of a water powered lime doser and access roads to treat the Kempton

Airshaft and borehole acid mine drainage

discharge.

Size: 1 acre Cost: \$104,012.19

Kempton Coal Waste Stabilization Project

Scope: Elimination of health and safety hazards

associated with the Kempton Mine.

Size: 28 acres

Cost: \$290,511.90

Teets S.A.P.S. System Project

Scope: Construction of an acid mine drainage treatment

structure to reduce impacts to Cherry Creek.

Size: 1 acre

Cost: \$ 17,090.99

Maryland Deep Mine Fund

Stullenbarger Mine Drainage Control Project . .

Scope: Construction of subsurface drains and surface

ditches to divert acid mine drainage impacting a retaining wall and house in Lonaconing, Maryland.

Size: 1 acre

Cost: \$ 9,890.14

Aaron's Run Deep Mine Closure Project

Scope: Elimination of health and safety hazards

associated with an abandoned air shaft entry.

Size: .5 acres

Cost: \$ 504.00

Kyle Hill Drainage Ditch Project

Scope: Construction of surface ditch to divert acid mine

drainage impacting farm pasture.

Size: .75 acres

Cost: \$ 10,589.00

Mill Run Mine Drainage Project

Scope: Repair surface ditches and replace culverts to

facilitate the Mill Run Watershed Association's

limestone fines dumping project. :5.

Size: 1 acre

Cost: \$ 5,587.36

Moran Manor Gob Pile Reclamation Project

Scope: Regrade and topsoil gob pile to eliminate erosion

of acidic sediments into Georges Creek.

Size: 2 acres

Cost: \$ 7,152.00

Small Creeks and Estuaries Water Quality Restoration Cost-Share Program

Elk Lick II S.A.P.S. Project

Scope: Construction of an acid mine drainage treatment

structure to reduce impacts to Elk Lick Run and

the North Branch Potomac River.

Size: 2 acres

200

Cost: \$ 52,000.00

Bond Forfeitures

Bessemer Drainage Control Removal Project :

Scope: Remove ponds and ditches from the Bessemer Iron &

Coal Company Permit SM-84-296 Mine Forfeiture.

Size: 6 acres

Cost: \$ 24,260.00

FOR CALENDAR YEAR 1998

MINE FOREMAN AND FIRE BOSS EXAMINATIONS AND CERTIFICATIONS

The number of Mine Foremen and Fire Boss applicants examined and certified from 1984 through 1998 are identified below.

YEAR	APPLICANTS	EXAMINED	APPLICANTS	CERTIFIED
	Mine Foreman	Fire Boss	Mine Foreman	Fire Boss
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
1993	25	8	25	8
1992	0	0	5*	0
1991	6	0	6	0
1990	19	4	18	4
1989	0	0	25*	0_
1988	15	0	11	0
1987	0	0	10*	0
1986	0	0	25*	0
1985	0	0	11*	0
1984	0	0	0	. 0

^{*}These applicants were upgraded from Fire Boss to Foreman, based on years of experience, without taking an examination.

INSPECTION AND ENFORCEMENT ACTIVITIES 1994-1998

TYPE OF ACTION	1994	1995_	1996	1997	1998
Inspections	1216	1073	991	990	1058
Notices of Violations	31	8	5	11	13
Cessation Orders	11	15	0	1	1
Citizen Complaints	36	44	33	7	24
Bond Forfeitures	2	0	1	0	0

MINING PERMITS ISSUED BY YEAR AND PERMITTEE

Permit No.	Year <u>Issued</u>	<u>Permittee</u>
1	1955	The George's Creek Lumber Company*
2	1955	Allegany Engineering Company*
3	1955	B.M.W. Coal Company*
4	1955	Old Hampshire Coal Company, Inc.*
5	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* Goodwill Fuel Company*
27	1957	D.B.&B. Coal Company*
28 29	1957 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.B. 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	Winner Bros. Coal Company, Inc.
41	1958	Buffalo Coal Company, Inc.*
42	1958	Casey Construction Company**
43	1958	Sara-Ki Coal Company, Inc. *
44	1958	Yantus & Zubek Coal Company*
45	1958	Moran Coal Company*
46	.1958	Casey Construction Company **
47	1958	Moran Coal Company*
48	1958	Moran Coal Company*
49	1958	Sara-Ki Coal Company, Inc.*
50	1958 .	Laurel Creek Company, Inc. **

Permit	Year			Permit	Year	
No.	<u>Issued</u>	<u>Permittee</u>		No.	Issued	<u>Permittee</u>
	1050	D. D. C. C. C. Company		104	1961	Beener Coal Company*
51	1958	D.B.&B. Coal Company**		105	1961	D&K Coal Company*
52 53	1958 1959	Moon and Sons*		106	1961	Mack Coal Company*
		George L. Smith Contracting Company*		107	1961	Yantus and Zubek*
54	1959	The Georges Creek Lumber Company*	'	108	1961	Potomac Mining Company*
55	1959 1959	Moran Coal Company*	1	109	1962	Casey Contracting Company*
56 57		North Branch Coal Corporation*		110	1962	Wilhelm Coal Company*
5 / 58	1959 ₁ 1959	George Coal Company**		111	1962	The Georges Creek Lumber Company*
59	1959	Samuel Compton & Company**		112	1962	Clark Coal Company*
60	1959	Hoover & White*		113	1962	Casey Contracting Company*
61	1959	Laurel Creek Company, Inc.**		114	1962	Casey Contracting Company*
62	1959	The Eddy Fuel Company**		115	1962	Douglas Coal Company*
63	1959	J.R. Thrasher Contracting & Stripping Co.* Pittsburgh Coal Company*		116	1962	Red Lion Mining Corporation**
64	1959			117	1962	Ebensburg Coal and Clay Company*
65	1959	Mineral Coal Company, Inc., of West Virginia*		118	1963	James E. George*
66	1959	Laurel Creek Company, Inc.* The Georges Creek Lumber Company*		119	1963	Ebensburg Coal and Clay Company*
67	1959	Chelsie A. Liller*		120	1963	J.R. Thrasher Contracting & Stripping Co.*
68	1959			121	1963	Moran Coal Company, Inc. *
69	1959	Casey Contracting Company**		122	1963	Buffalo Coal Company, Inc.*
70	1959	Pine Mountain Coal Company* Opel and Brenneman*		123	1963	J.R. Thrasher Contracting & Stripping Co.*
71	1959			124	1963	Win-More Mining & Construction Co., Inc. *
72	. 1959	The Georges Creek Lumber Company* P.&J. Coal Company*		125	1963	Beener Coal Company*
73	1959	Casey Contracting Company**		126	1964	W.R. Nethken and Company, Inc. *
74	1959	Goodwill Fuel Company*		127	1964	Mack Coal Company*
75	1959	D.B.&B. Coal Company*		128	1964	J.R. Thrasher Contracting & Stripping Co.*
. 76	1960	Baughman Contracting Company, Inc. *		129	1964	J. Russell Cravener*
77	1960	P&K Coal Company*		130	1964	Chelsie A. Liller*
78	1960	Morgan Contracting Company*		131	1964	The Georges Creek Lumber Company*
79	1960 .	Buffalo Coal Company, Inc.*		132	1964	Brenneman Brothers*
80	1960	Buffalo Coal Company, Inc.*		133	1965	W.R. Nethken and Company, Inc. *
81	1960	Randall Robertson*		134	1965	Richards and Parnell Coal Company*
82	1960	Hoover & White**		135	1965	William Brashear*
83	1960	James E. George*		136	1965	W.R. Nethken and Company, Inc. *
84	1960	B.M.W. Coal Company, Inc.*		137	1965	G&S Coal Company, Inc. *
85	1960	Casey Contracting Company**		138	1966	J.R. Thrasher Contracting & Stripping Co.*
86	1960	Beener Coal Company*		139	1966	J.R. Thrasher Contracting & Stripping Co.*
87	1960	Moran Coal Company, Inc. *		ب 140	1966	Shallmar Coal Company, Inc. *
88	1960	D&K Coal Company*	1	141	1966	Randall Robertson**
89	1960	Brenneman Brothers*	i	142	1966	Ace Drilling Coal Company, Inc.*
90	1960	Mark Carl Campanet		143	1966	Beener Coal Company*
91	1960	Clarence Rodamar*	, ,	144	1966	Clarence Rodamer*
92	1960	James E. George*		145	1967	Ginniman Coal Company*
93	1961	Casey Contracting Company**		146	1967	Raymond A. Wolf Mining Company*
94	1961	Winner Brothers*		147	1967	Menallen Coke Company*
95	1961	Moran Coal Company, Inc. *	•	148	1967	Russel Shafer*
96	1961	Big Vein Coal Company*		149	1967	Homage Coal Co. (Emmett Duppstadt)*
97	1961	Maryland Fuel Company, Inc. *		150	1967	Twin States Coal Company**
98	1961	Yantus-Zubek Coal Company*		151	1967	M.F. Fetterolf Coal Company, Inc. *
99	1961	J.R. Thrasher Contracting & Stripping Co.*		152	1967	Ebensburg Coal and Clay Company*
100	1961	Trefall Bros., Inc.*		153	1968	Raymond A. Wolf Mining Co. (UPRC)*
101	1961	Mack Coal Comany*		154	1968	Michael Rostosky*
102	1961	C.A. Liller Company*		155	1968	Ginniman & Ware Coal Company*
103	1961	Cross & Brumage Coal Company*				<i>(*</i> .
						•

Permit No.	Year Issued	Parrick to the same of the sam	Permit	Year	
<u> 110.</u>	TROUGU	<u>Permittee</u>	No.	Issued	<u>Permittee</u>
156	1968	Harold H. Upole Coal Company*	207	1972	Winner Bros. Coal Company, Inc.
157	1968	T.G.&C. Coal Company, Inc. *	208	1973	Sanner Bros. Coal Company*
158	1969	Clarence Rodamer Coal Company*	209	1973	Delta Mining, Inc. *
159	1969	Michael Rostosky Coal Company	210	1973	Markat, Inc. *
160	1969	Russel Shafer Coal Company*	211	1973	Oakland Coal Company*
161	1969	Buffalo Coal Company, Inc. *	212	1973	Bessemer Iron & Coal Company*
162	1969	J.R. Thrasher Contracting & Stripping Co. ***	213	1973	Clise Coal Company
163	1969	Buffalo Coal Company, Inc. *	214	1973	Inter-State Lumber Company*
164	1969	Union Coal Company*	215	1973	Buffalo Coal Company, Inc. *
165	1970	Win-More Mining & Construction Co., Inc. *	216	1973	Brashear Coal Company***
166	1970	Ginniman Coal Company*	217	1973	Bernard Drees Coal Company*
167	1970 '	Upperman Coal Company*	218	1973	Buffalo Coal Company, Inc. * .
168	1970	Frank Pulford**	219	1973	G&S Coal Company, Inc. *
169	1970	Winner Bros. Coal Company, Inc. *	220	1974	Evans Coal Company*
170	1970	Russel Shafer*	221	1974	Bridgeview Coal Company*
171	1970	The Chief Coal Company*	222	1974	John Duckworth Coal Company*
172	1970	Mary Ruth Corporation*	223	1974	Edward Mikel*
173	1970	Oakland Coal Company*	224	1974	Delta Mining, Inc.*
174	1971	Bernard C. Drees*	225	1974	Northwest Coal Company, Inc.*
175	1971	Delta Mining, Inc. *	226	1974	Thrasher Coal Company**
176	1971	D&K Coal Company, Inc. *	227	1974	Winner Bros. Coal Company, Inc. *
177	1971	T.G.&C. Coal Company, Inc.*	228	1974 "	Bittinger Coal Company*
178	1971	Emmett Duppstadt*	229	197 4	Charles M. Filsinger*
179	1971	Somerset Excavating, Inc.	230	1974	G&H Coal Company, Inc. *
180	1971	Ayers Coal Company*	231	1974	Hi-Note, Inc.*
181	1971	Delta Mining, Inc. *	232	1974	Buffalo Coal Company, Inc.*
182	1971	Patriot Mining Company, Inc. *	233	1974	Oliver Mining Company**
183	1971	Chief Coal Company*	234	1974	Clise Coal Company*
184	1971	Cobra Mining	235	1974	
185	1971		236	1974	Delta Mining, Inc.*
186	1971	Coal Lick Coal Company*	237	1974	Bridgeview Coal Company*
187	1971	Phillips Big Vein Coal Company*	238	1974	Burnham Coal Company, Inc. *
188	1971	Ace Drilling Coal Company, Inc. *	239	1974	Highland Mining*
189 190 - ^	1971	Buffalo Coal Company, Inc. *	240	1974	Buffalo Coal Company, Inc. *
	1971 1971	Buffalo Coal Company, Inc. *	241	1975	Buffalo Coal Company, Inc. *
191	19/1	- Keystone Coal and Development Company	242	1975	Hopwood Strip Mine, Inc. **
		(Liability Assumed by Garrett County	243	1975	Ponderosa Coal Company, Inc.*
192	1971	Roads Department) Ace Drilling Company, Inc.	244	1975	Markat, Inc. *
193	1972		245	1975	Phillips Coal, Inc.*
194	1972	Wilhelm Coal, Inc.*	246	1975	Lambert Coal Company*
195	1972	M.F. Fetterolf Coal Company, Inc.***	247	1975	Winner Bros. Coal Company, Inc.
196	1972	Buffalo Coal Company, Inc.* Bessemer Iron & Coal Company*	248	1975	Buffalo Coal Company, Inc. *
197	1972		249	1975	Cobra Fuela*
197	1972 -	Grafton Coal Company	250	1975	Laoc Coal Company*
1 9 9	1972	Jet Fuel Coal Company	251	1975	Tower Resources, Inc.*
		Bessemer Iron & Coal Company*	252	1975	Phillips Coal, Inc.*
200	1972	Chief Coal Company	253	1975	Pine Mt. Coal Company*
2 01 202	1972 1972	Brashear Coal Company*	254	1975	T.G.&C. Coal Company*
202	1972	Winner Bros. Coal Company, Inc. *	255	1975	Allegheny Mining Company*
203	1972	Mary Ruth Corporation*	256	1975	Bridgeview Coal Company*
205	1972	Grafton Coal Company*	257	1975	A&R Coal Company
205	1972	Chief Coal Company*	258	1975	Clinton Coal Company**
200	1912	Upperman Coal Company*			

Permit	Year				Permit No.	Year Issued	Permittee
No.	Issued	Permittee			NO.	100060	A CAMILLO COC
		<u>FEIMILLEE</u>		į	312	1977	R.A.K. Coal Company, Inc. **
259	1975	Tower Resources, Inc. *			313	1977	G&S Coal Company*
260	1975	Yough Tree Farm*			314	1977	Wilhelm Coal, Inc. **
261	1975	Russel Shafer***			315	1977	Clise Coal Company
262	1975	Northwest Coal Company **			316	1977	Brawal Mining, Inc. *.
263	1975	Allegheny Mining Corporation*			317	1977	John R. Livingston**
26 4	1975	Brashear Coal Company			318	1977	Winner Bros. Coal Company, Inc.
265	1975.	Bittinger Coal Company*			319	1977	John Duckworth Coal Company*
26 6	1975	Delta Mining, Inc.*,			320	1977	Kelley Enterprises*
26 7	1975	Bittinger Coal Company*			321	1978	Delta Mining, Inc. *
268	1975	Clyde Marsh Coal Company*			322 _{'fl.}	1978	Bridgeview Coal Company*
269	1975	Hungry Hollow Coal Company*			323	1978	Ayers Coal Company*
270	1975	Clise Coal Company*			324	1978	John-Duckworth Coal Company*
271	1975	A&R Coal Company*	,		32 5	1978	G&S Coal Company, Inc.
272	1975	Action Mining, Inc. *			326	1978	Buffalo Coal Company, Inc.
273	1975	Win-More Mining & Construction	,		327	1978	Buffalo-Coal Company, Inc
274	1975	Evans Coal Company*			328	1978	Buffalo Coal Company, Inc.
275	1975	Buffalo Coal Company, Inc. *			329	1978	Winner Bros. Coal Company, Inc.
276	1975	Buffalo Coal Company, Inc.*			330	1978	Inter-State Lumber Company*
2 7 7	1975	Allegheny Mining Corporation			331	1978	R.A.K. Coal Company***
278	1976	Inter-State Lumber Company*	i		332	1978	Seneca Mining Company*
27 9	1976	Buffalo Coal Company, Inc. *	·		333	1978	Westvaco Corporation*
280	1976	Delta Mining, Inc.*			334	1978	Buffalo Coal Company, Inc.
281	1976	Rondell Company*	1.		335	1978	Inter-State Lumber Company**
282	1976	Phillips Coal, Inc.*	_		336	1978	Inter-State Lumber Company
283	1976	G&H Coal Company, Inc.*			337	1978	Kirby Energy, Inc.
284	1976	Tower Resources, Inc.			338	1978	Barton Mining Company, Inc.
285 286	1976 1976	Clinton Coal Company**	,		339	1978	Wilhelm Coal, Inc.
287	1976	Winner Bros. Coal Company, Inc.			340	1978	Fetterolf Mining, Inc.*
288	1976	T.L. Moran, Inc.*			341	1979	Eastern Mining Systems, Inc. **
28 9	1976	Delta Mining, Inc.*			342	1979	Primrose Coal Company*
290	1976	Pine Mt. Coal Company*	,		343	1979	L.C. Coal Company*
291	1976	Delta Mining, Inc. *			344	1979	Bridgeview Coal Company*
292	1976	George Nolan**	-		345 346	1979 1979	Delta Mining, Inc.** Inter-State Lumber Company*
293	1976 .	Alexander Coal Co. •			346 347	1979	Kelley Enterprises*
294	1976	Pine Mt. Coal Company* Arlen Miller***	•		348	1979	Schwinabart & Green, Joint Venture*
295	1976				349	1979	Wilhelm Coal, Inc. **
296	1976	Action Mining, Inc.*			350	1980	Bridgeview Coal Company*
297	1977	Bessemer Iron & Coal Company** Oakland Coal Company		,	351	1980	Winner Bros. Coal Company, Inc.
298	1977	Bittinger Coal Company*		ì	352	1980	John Duckworth Coal Company*
299	1977	Inter-State Lumber, Inc. *		ţ	353	1980	Winner Bros. Coal Company, Inc.
300	1977	Garbart Coal Company*		;	354	1980	Brawal Mining, Inc.*
301	1977	Pine Mt. Coal Company*		;	355	1980	Hi-Note, Inc.*
302	1977	L.C. Coal Company, Inc.*	·	,	356	1980	G&S Coal Company, Inc. ***
303	1977	Ginniman Brothers Coal Company**	. •		357	1980	Richard Duckworth Coal Company*
304	1977	Buffalo Coal Company, Inc.			358		-Bridgeview Coal Company*
305	1977	Wood Products, Inc.*	÷		359	1980	Buffalo Coal Company, Inc.
306	1977	Bridgeview Coal Company*			360	1980	Buffalo Coal Company, Inc.
307	1977	T.L. Moran, Inc.*	- /		361	1980	Pamela Mines, Inc. **
308	1977	Best Coal Stripping, Inc. **			362	1980	Alpha Mining, Inc.
309	1977	Delta Mining, Inc.*			363	1980	Pamela Mines, Inc. **
310	1977	Oakland Coal Company*			364	1980	John Duckworth Coal Company*
311	1977	Primrose Coal Company*					,,,

Permit	Year	• •
No.	<u>Issued</u>	<u>Permittee</u>
365	1980	G&S Coal Company, Inc.
366	1980	Buffalo Coal Company, Inc. *
367	1980	Buffalo Coal Company, Inc.
368	1980	Winner Bros. Coal Company, Inc.
369	1980	Bittinger Coal Company*
370	1982	Keystone Mt. Development Company*
371	1982	Eagle Mining, Inc.*
37 2	1982 -	John Duckworth Coal Company
37 3	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. Merlo, Inc.*
391		Oak Springs Coal Company*
3 92	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
3 9 9		Fairview Coal Company
400	1985	Delta Mining, Inc.*
401		Buffalo Coal Company, Inc.***
402 403	1985 1985	Pine Mt. Coal Company*
404	1986	T.D. Mining Company**
405	1986	Clise Coal Company
406	1986	Jones Coal, Inc.** Patriot Mining Company, Inc.*
407	1986	Winner Bros. Coal Company, Inc.
408	1986	Tri Star Mining, Inc.*
	1986	
409 410	1985	Buffalo Coal Company, Inc. J. Walter Wassell
411	1987	
412	1987	Jenkins Development Company John Duckworth Coal Company***
412	1988	
414	1989	Buffalo Coal Company, Inc. Winner Bros. Coal Company, Inc.
415	1989	Pine Mt. Coal Company*
415	1989	
-	1989	Action Mining, Inc. Tri Star Mining, Inc.*
417	1707	TE GOOD MINING! THE.

Permit No.	Year Issued	Permittee
6101		
418	1991	Tri Star Mining, Inc.
419	19 91	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	Patriot Mining Company, Inc.
424	1995	Pine Mt. Coal Company
425	1995	Tri Star Mining, Inc.
426	1996	Tri Star Mining, Inc.*
427	1996	Barton Mining Company, Inc.
428	1997	Mettiki Coal Corporation
429	1997	Tri Star Mining, Inc.
430	1998	G&S Coal Company, Inc.
431	1998	Patriot Mining Company, Inc.
DEEP MINE	<u>s</u>	
DM 101	1977	Mettiki Coal Corporation
DM 102	1977	Masteller Coal Company*
DM 103	1977	Mt. Top Coal Company
DM 104	1977	Mettiki Coal Corporation
DM 105	1977	Mettiki Coal Corporation
DM 106	1978	A&J Coal Corporation**
DM 107	1982	Masteller Coal Company*
DM 108	1989	Anker West Virginia Mining Co., Inc.
DM 109	1991	Patriot Mining Company, Inc.
DM 110	1992	Masteller Coal Company
TIPPLES A	ND GOB PI	LES
SC-83-101		Buffalo Coal Company
SC-83-102		Buffalo Coal Company*
SC-83-103		Buffalo Coal Company
SC-83-104		Buffalo Coal Company
SC-83-105		Buffalo Coal Company*
SC-83-106		Permit Not Issued
SC-83-107		Delta Coal Sales, Inc. **
SC-83-108		Delta Coal Sales, Inc. *
SC-83-109		Permit Not Issued
SC-83-110		Winner Bros. Coal Company, Inc.
SC-83-111		Westvaco Corporation*
SC-83-112		Winner Bros. Coal Company
SC-83-113		Permit Not Issued
SC-83-114		Ever, Inc.*
SC-83-115		Permit Not Issued
SC-87-116	1987	John Duckworth Coal Company
SC-87-117		Tri Star Mining, Inc.
SC-87-118		Patriot Mining Company, Inc.

Operation Completed and Bond Released Forfeiture of Bond Not Activated