

A. Summary of Abatement Costs

- The following summary presents the estimated cost for partial abatement and treatment of the acid mine drainage of the Chartiers Creek Drainage Basin:

- Phase A: Restoration of natural drainage as shown in the Cost Summary for Major Sources of Pollution
- Phase B: Restoration of natural drainage through strip mines affecting minor sources
- Phase C: Cost of treatment plant, based on one year's operation and assuming the minimum percentage reduction shown for each source, is included in Cost Summary, Phase C, Page X-11. The price, therefore, will vary if more than the estimated percentage reduction occurs. Based on this, Phase C should not be implemented until results of Phase A and Phase B are known.

<u>Major Tributaries</u>	<u>Phase A</u>	<u>Phase B</u>	<u>Phase C</u>
Chartiers	\$180,600	\$142,000	\$112,500
Campbells	181,200	72,000 1	5,500
Robinson	1,113,400	557,000	106,500
North BranchRobinsons Run	582,000	29,000	102,000
Millers	225,000	6,000	88,000
Total:	\$2,282,200	\$806,000	\$424,500
Total Percent Abatement of Acid Drainage in the Basin:*	40%	10%	40%

*The above percentage of abatement is based on theoretical estimates and recognizes the fact that 100% actual abatement may never be achieved.

- Since House Bill 561 (1969 Session) was adopted, the strip mines can be completely reclaimed and reforested rather than simply improving the drainage through them as recommended in Phases A and B of this cost summary. The additional cost to totally reclaim the strip mines is approximately \$2,500,000. The cost of total reclamation for each of the strip mines is included on the enclosed charts. It is estimated that this work will abate an additional 10% of the pollution.

B. Stream Benefits

1. Physical abatement of the major sources would significantly improve water quality in the lower reach of Chartiers Creek. The resultant water quality can be predicted on the basis of anticipated pollution reduction of approximately 40%.
2. The reduction in acid loads from the major sources from 30 thousand to 17 thousand pounds per day would effect a similar acid load reduction in Chartiers Creek.
3. The funds expended in the various phases of cleanup of the Chartlers Creek Drainage Basin should result in the following benefits to Main Stem Chartiers Creek:
 - a. Decrease in the slugging effect of mine acid drainage from the sub-tributaries.
 - b. A more uniform year-round balance of alkalinity.
 - c. Significant decrease in iron and sulfide.
 - d. Addition of unpolluted waters to the tributaries, thus assisting in further dilution of existing acids.
 - e. Reduction of siltation from strip mines and mine dumps.
4. The foregoing benefits are related to the abatement of mine acid drainage and its effect on Chartiers Creek; however, the stream waters are constantly being affected by other pollutants such as raw sewage, industrial wastes, and siltation.

COST SUMMARY

PHASE A

7
COST SUMMARY FOR PHASE A
MAJOR SOURCES OF POLLUTION
CHARTIERS CREEK BASIN

Priority Number	Source Number	Per Cent Pollution	Methods of Abatement	Estimated Cost	Per Cent Abatement	% Pollution Abated	Tributary
1	<i>95 11 - 19</i> 4971- 4967	28.5	Surface Drainage Restoration Fill in Sink Holes & Seal Mine Openings	\$225,000 <i>185,000 - 40k</i>	39	12.0	Millers Run
2	<i>(95 22) 102-2-1</i> 4041	9.0	Fill in Sink Holes Surface Drainage Restoration Reclamation of a Strip Mine	126,200	60	5.4	North Branch Robinsons Run
3	<i>95-13-102-3-6</i> 6005	7.0	Improve Drainage Through Strip Mines & Seal Mine Opening 0-19	110,900 <i>105,000</i>	20	1.4	Campbells Run
4	<i>95 10 - 102-3-3</i> 4805-4804-4824	3.5	Surface Drainage Restoration Cover Up Openings into Deep Mine	77,500 <i>30,000</i>	26	0.9	North Branch Robinsons Run
X-4 5	<i>95 8 - 102-3-5</i> 6048	3.5	Seal Mine Entries Drainage Restoration	24,500	23	0.8	North Branch Robinsons Run
6	4952-4951	3.5	Improve Natural Drainage Through Strip Mine & Reduce Infiltration of Surface Water into Deep Mine	154,000	38	1.3	Robinson Run
7	4654	2.5	Improve Drainage Through Strip Mines	75,000	48	1.2	Robinson Run
8	<i>95-5-2 102-3-3A</i> 4962-4963 4034	2.5	Fill Sink Holes Provide Drainage Through Sink Hole Area & Strip Mines	39,000 <i>45,000</i>	18	0.5	Robinson Run
9	<i>95-3 102-3-2</i> 4972	2.5	Surface Drainage Restoration	98,500 <i>21,500</i>	100	2.5	Chartiers Creek
10	<i>95-4 102-3-1</i> 4810	2.5	Seal Air Shaft & Mine Openings; Surface Drainage Restoration	79,000	53	1.3	North Branch Robinsons Run

Cost Summary for Phase A

Priority Number	Source Number	Per Cent Pollution	Methods of Abatement	Estimated Cost	Per Cent Abatement	% Pollution Abated	Tributary
11	4801-4802	2.5	Cover Openings into Deep Mines; Surface Drainage	\$107,000	42	1.0	North Branch Robinsons Run
12	4055 <i>487 1023-1</i>	2.0	Surface Drainage Restoration	24,000	20	0.4	Robinson Run
13	4034	2.0	Surface Drainage Restoration	65,000	40	0.8	Robinson Run
14	4834 <i>487-1023-2</i>	2.0	Fill Opening into Deep Mine Surface Drainage Restoration	22,000	30	0.6	North Branch Robinsons Run
15	4019	1.5	Grout Sealing	15,000	100	1.5	Robinson Run
16	6022	1.5	Fill in Sink Holes Drainage Restoration	69,700	64	1.0	Campbells Run
17	4957-4956	1.5	Fill in Sink Holes Surface Drainage Restoration	81,600	46	0.7	Robinson Run
5-X 18	4816-4815	1.5	Surface Drainage Restoration	38,800	60	0.9	North Branch Robinsons Run
19	4153	1.5	Surface Drainage Restoration Seal Mine Opening 0-12 Fill in Strip Mines	30,800	22	0.3	Robinson Run
20	6002	1.5	See 6005	--	20	0.3	Campbells Run
21	4006	1.0	Surface Drainage Restoration	87,000	70	0.7	Robinson Run
22	4031	1.0	Surface Drainage Restoration	421,800	100±	1.0	Robinson Run
23	4845	1.0	See 4952-4951	--	40	0.4	Robinson Run

Cost Summary for Phase A

Prio. y	Source	Per Cent	Methods of Abatement	Estimated	Per Cent	% Pollution	Tributary
Number	Number	Pollution		Cost	Abatement	Abated	
24	05-22-102-2-1 4829	1.0	See 4041	--	60	0.6	North Branch Robinsons Run
25	4688	1.0	Improve Surface Drainage Seal Opening 0-16	\$80,700	67	0.7	North Branch Robinsons Run
26	6001	1.0	See 6005	--	20	0.2	Campbells Run
27	4838	1.0	See 4952-4951	--	40	0.4	Robinson Run
28	4820	1.0	Surface Drainage Restoration	17,000	35	0.4	North Branch Robinsons Run
29	4045	1.0	Surface Drainage Restoration	13,000	50	0.5	Robinson Run
30	6034-6035	1.0	See 4972	--	55	0.5	Chartiers Creek
31	4655	0.5	Surface Drainage Restoration	82,700	82	0.4	Chartiers Creek
32	4039	0.5	Surface Drainage Restoration	69,500	75	0.4	North Branch Robinsons Run
33	4850	0.5	Restoration of Natural Drainage	26,500	43	0.2	Robinson Run
34	4808	0.5	Surface Drainage Restoration	<u>20,500</u>	30	<u>0.2</u>	North Branch Robinsons Run
TOTAL:				\$2,282,200		41.4	

9-X

COST SUMMARY
PHASE B

COST SUMMARY FOR PHASE B
 STRIP MINES ASSOCIATED WITH MINOR SOURCES
 CHARTIERS CREEK BASIN

Strip Mine No.	Pollution Source	Strip Mine Location	Strip Mine Condition	Estimated Acreage	Estimated Costs		Remarks
					Improve Drainage		
<u>PITTSBURGH WEST QUADRANGLE:</u>							
PGW 1	4965	South of Ewingville	URC	12	\$18,500		
PGW 8	6013	North of Parkway West	DAH	13	--		
PGW 9	6012	Between Parkway West & Zimmer Road	RND	24	19,700		
PGW 10	6015	North of Zimmer Road	RND	34	36,500		IIA Reclaimed
PGW 18	6042	Around Moon Run	URC	36	56,000		
PGW 19	6012 and 6015	South of Zimmer Road	See PGW 9				
PGW 21	6015	North of Campbells Run	See PGW 10				
<u>OAKDALE QUADRANGLE:</u>							
OAK 7	4657	Updip of 4972, South of Rennerdale	URC	44	67,200		
OAK 11	4959, 4960, 4961	West of Sturgeon	DAH	33	--		
OAK 15	4847	North of Noblestown	DAH	11	--		
OAK 18	4689 and 4684	North of Oakdale	URC	29	43,500		
OAK 22	4685 and 4687	East of McKee Road	DAH	16	--		
OAK 23	4683	Between McKee & Gambel Rds.	RND	40	17,500		

Cost Summary for Phase B

Strip Mine No.	Pollution Source	Strip Mine Location	Strip Mine Condition	Estimated Acreage	Estimated Costs		Remarks
						Improve Drainage	
OAK 24	4677 and 4678	Northeast of Oakdale	RND	Combined with OAK 25			
OAK 25	4676,4674,4673	West of Gregg	RND	162		\$118,000	
OAK 27	4668,4669,4670	Between McKee Rd. & County Regional Park #6	RND	48		--	
OAK 28	4671 and 4672	Inside County Regional Park #6	DTH	6		3,600	
OAK 29	4671 and 4672	Inside County Regional Park #6, Updip of 4971 & 4972 on Pinkertons Run	DTH	25		15,000	
OAK 32	6029	Between Pinkertons & Lintons Run	RND	101		54,400	
OAK 35	4665 and 4666	On Both Sides of Cowan Rd.	RND	102		61,000	
OAK 36	4664, 4667,4662 4661, 4660	Northwest of Rennderdale & South of Baldwin Rd.	RND	59		17,000	
OAK 37	4659 and 4665	Northeast of Rennersdale & West of Scotts Run	RND	86		77,500	
OAK 38	4659 and 4665	N. of Baldwin Rd. Between Ridge Rd. & McMichael Rd.	RND	70		24,000	
OAK 43	6025, 6026, 6024, 6023	Between McMichael Rd. & Glass Rd.	RND	55		26,500	
OAK 45	6011, 6000	Between Glass Rd. & Pa. 60	URC	10		15,500	
OAK 55	4819, 4818, 4817, 4821	Between W. Allegheny High School & Fayetteville South of Rts. 22-30	RND	65		29,000	

6-X

Cost Summary for Phase B

Strip Mine No.	Pollution Source	Strip Mine Location	Strip Mine Condition	Estimated Acreage	Estimated Costs		Remarks
					Improve Drainage		
OAK 57	4694 and 4693	South of Fayetteville	DAH	10	--		
<u>CLINTON QUADRANGLE:</u>							
CLN 4	4005, 4012, 4013, 4014, 4015	Northeast of Bulger	URC	48	\$72,000		
<u>MIDWAY QUADRANGLE:</u>							
MID 10	4058	Southeast of Westland	RND	14	6,500		
MID 14	4004	Northwest of Midway	URC	18	<u>27,000</u>		
TOTAL:						<u>\$805,900</u>	

COST SUMMARY
PHASE C TREATMENT PLANTS

COST SUMMARY FOR PHASE C
PLANT TREATMENT OF ACID MINE WATER

Source	Flow (gpm)	Percent Reduction	Remaining Flow (gpm)	GPD	Est. Cost 1000/gal.	Est. Cost Year	Location
6034-6035	1800	55	810	1,160,000	\$.20	\$ 85,000	Main Stem Chartiers Creek
4654-4655	289	--	170	250,000	.30	<u>27,500</u>	"
Sub-Total :						\$112,500	
6005	158	20	125	150,000	.30	<u>15,500</u>	Campbells Run
Sub-Total :						\$ 15,500	
4045	30	50	15	--	--	--	Robinson Run
4153	76	22	62	86,500	.30	10,000	"
4838	55	See 4951-4952		--	--	--	"
4845	95	40	60	86,500	.30	10,000	"
4850	54	43	33	--	--	--	"
4956-4957	148	46	130	153,000	.30	16,500	"
4654	See Main Stem Chartiers Creek						
4019	81	100	0	--	--	--	"
4006	48	70	45	--	--	--	"
4952-4951	218	38	135	200,000	.30	21,500	"
4031	21	100	--	--	--	--	"

X-12

Cost Summary for Phase C

Source	Flow (gpm)	Percent Reduction	Remaining Flow (gpm)	GPD	Est. Cost 1000/gal.	Est. Cost Year	Location
4962-4963	279	18	220	316,800	\$.30	\$ 34,500	Robinson Run
4034	56	40	--	--	--	--	"
4055	111	20	88	127,000	.30	<u>14,000</u>	"
Sub-Total:						\$106,500	
4802-4801	129	43	73	105,000	.30	11,000	North Branch Robinsons Run
4815-4816	70	60	20	--	--	--	"
4808	28	30	21	--	--	--	"
4820	32	35	21	--	--	--	"
4039	31	75	8	--	--	--	"
4041	248	60	100	144,000	.35	19,000	"
4688	85	67	26	--	--	--	"
4834	120	30	72	105,000	.30	11,000	"
6048	234	23	180	259,000	.30	28,500	"
4810	145	53	75	105,000	.30	11,000	"
4805, 4804, 4824	175	26	135	200,000	.30	<u>21,500</u>	"
Sub-Total:						\$102,000	
4971	1400	40	840	1,210,000	.20	<u>\$ 88,000</u>	Millers Run
Sub-Total:						<u>\$ 88,000</u>	
TOTAL:						\$190,000	

21-X

TOTAL RECLAMATION OF STRIP MINE
ASSOCIATED WITH MAJOR SOURCES

COST ESTIMATE FOR TOTAL RECLAMATION OF
STRIP MINES ASSOCIATED WITH MAJOR SOURCES
CHARTIERS CREEK BASIN

Strip Mine No.	Pollution Source	Strip Mine Location	Strip Mine Condition	Estimated Acreage	Estimated Costs		Associated Minor Sources and Remarks
					Reclaim		
<u>CANONSBURG QUADRANGLE:</u>							
CAN 1	4971 and 4967	Upper Mohawk Valley	DAH	45	\$45,500		
CAN 3	4971 and 4967	Lower Mohawk Valley	RND	24	27,200		4968, 4969
CAN 4	4967 and 4972	Upper Dolphin Run	DAH	23	8,400		
CAN 5	4967 and 4972	Lower Dolphin Run	DAH	16	37,100		
CAN 6	4971 and 4967	Laurel Hill	URC	25	56,000		
CAN 17	4971 and 4967	Laurel Hill	URC	18	30,600		
CAN 18	4971 and 4967	East of Gladden	URC	5	16,500		
CAN 19	4971 and 4967	Northeast of Morgan	RND	12	21,200		
<u>PITTSBURGH WEST QUADRANGLE:</u>							
PGW 2	4654	Northwest of Ewingville	DTH	16	29,000		4650
PGW 3	4654	North of Ewingville	DTH	37	58,000		4651, 4652, 4653
PGW 4	4655	Ewing Road	RND	48	29,000		4659
PGW 5	4655	Northwest of Carnegie	URC	10	24,500		
PGW 6	4655	Northwest of Carnegie	RND	25	35,000		
PGW 7	4655	Between Baldwin Road & Parkway West	See OAK 8				

X-15

Cost Estimate for Total Reclamation of Strip Mines Associated with Major Sources

Strip Mine No.	Pollution Source	Strip Mine Location	Strip Mine Condition	Estimated Acreage	Estimated Costs		Associated Minor Sources and Remarks
					Reclaim		
PGW 11	6001	North of Zimmer Road	RND	19	\$45,200		
PGW 12	6002	North of Zimmer Road	RND	46	20,800		6003,6004,6006
PGW 13	6005	West of Beacon Road	URC	17	48,200		6007
PGW 15	6001	West of Thornburg	URC	17	49,000		6043, 6047
PGW 16	6005	South of Moon Run	RND	14	20,900		
PGW 20	6005	South of McKees Rocks Rd.	URC	8	25,750		
<u>OAKDALE QUADRANGLE:</u>							
OAK 1	4971 and 4967	Updip of 4971, South of Noblestown	RND	38	43,700		4966
OAK 2	4971 and 4967	Updip of 4971, South of Oakdale	RND	37	33,700		8 acres Reclaimed
OAK 3	4971 and 4967	Updip of 4971, East of Oakdale	RND	13	4,900		
OAK 4	4972	Updip of 4971, Northwest of Hickman	DTH	6	10,100		6037,6038,6039
OAK 5	4972	Updip of 4971, South of Gregg	DAH	25	8,000		
OAK 6	4972	Updip of 4972, Southeast of Gregg	DTH	17	25,800		
OAK 8	4655	Updip near Parkway West	DTH	24	48,000		Combined w/PGW 1
OAK 9	4962 and 4963	East of McDonald	RND	108	41,000		84 acres Reclaimed

Cost Estimate for Total Reclamation of Strip Mines Associated with Major Sources

Strip Mine No.	Pollution Source	Strip Mine Location	Strip Mine Condition	Estimated Acreage	Estimated Costs		Associated Minor Sources and Remarks
					Reclaim		
OAK 12	4956 and 4957	Northwest of Sturgeon	RND	62	\$83,400		4955,4958
OAK 14	4850	North of Noblestown & Sturgeon	RND	108	141,600		4848,4849
OAK 16	4851,4952,4845	West of Oakdale	RND	90	128,500		4846,4847
OAK 19	4956 and 4957	South of North Branch Robinsons Run	RND	44	59,900		4822,4830
OAK 20	4952, 4951, 4838, 4845	South of North Branch Robinsons Run	URC	37	101,500		4803
OAK 21	4688	West of McKee Road	DAH	12	13,000		4691,4693
OAK 30	4688	North of County Regional Park on Pinkertons Run	RDN	29	69,500		
OAK 39	4654	Between Scotts Run Rd. & Ft. Pitt Rd.	URC	30	79,500		4658
OAK 40	4655	Between Parkway & Ridge Rd.	URC	15	59,400		6029
OAK 41	4655	Between Parkway & Ridge Rd.	RND	6	4,500		6029, 3A Re-claimed
OAK 42	6022	Between Church Hill Rd. & Campbells Run Rd.	RND	17	17,200		6021
OAK 46	6022	Holy Trinity School Towards Parkway	RND	58	20,500		30A Reclaimed
OAK 47	6022	North of Intersection Pa. 60 and U.S. 22 & 30	RND	39	47,500		19A Reclaimed
OAK 48	4688	Between McKee & Gamble Rd.	RND	28	52,600		
OAK 50	4804,4805,4808, 4824,6048	Between Half Crown Run & North Branch Robinsons Run	DTH	26	31,000		4829

X-17

Cost Estimate for Total Reclamation of Strip Mines Associated with Major Sources

Strip Mine No.	Pollution Source	Strip Mine Location	Strip Mine Condition	Estimated Acreage	Estimated Costs		Associated Minor Sources and Remarks
					Reclaim		
OAK 51	6048	Between North Branch & Half Crown Run	RND	189	\$145,000		4698, 62A Reclmd 47A Active
OAK 52	4801 and 4802	South of Imperial	RND	51	11,200		17A Reclaimed
OAK 53	4801 and 4802	Southeast of Imperial	RND	102	196,200		4697,4699
OAK 54	4815 and 4816	Southeast of Imperial	RND	68	92,500		4814,4820,4696
OAK 58	4688	E. Beechcliff	RND	49	49,700		
OAK 59	4688		RND	133	109,000		
OAK 62	4820	Updip South of Imperial	DAH	32	19,600		
OAK 63	4055	Northwest of McDonald	RND	57	2,000		52A Reclaimed
<u>CLINTON QUADRANGLE:</u>							
CLN 1	4810	South of Santiago	URC	35	52,500		4811
CLN 2	4034	Southeast of McAdams	See MID 4				4050
CLN 3	4006	Northwest of McAdams	RND	40	57,500		10A Reclaimed
CLN 5	4031	West of McAdams	URC	170	225,000		4001,4007,4008 4009,4010,4021 4022,4023
CLN 6	4045	Northwest of McAdams	DAH	6	9,600		4044,4046
CLN 7	4031	West of McAdams	DTH	58	52,800		4047,4048
CLN 8	4153	East of McAdams	URC	6	12,700		4054

81-X

Cost Estimate for Total Reclamation of Strip Mines Associated with Major Sources

Strip Mine No.	Pollution Source	Strip Mine Location	Strip Mine Condition	Estimated Acreage	Estimated Costs		Associated Minor Sources and Remarks
					Reclaim		
CLN 9	4153	Northeast of McAdams	RND	69	\$29,100		37A Reclaimed
CLN 10	4045	North of McAdams	RND	40	19,400		7A Reclaimed
CLN 11	4039	On North Branch Robinsons Run	RND	76	81,900		4040,4043
CLN 12	4041	Southeast of Champion	RND	23	32,700		6A Reclaimed
CLN 13	4041,4829	Northeast of McAdams	RND	106	185,800		4826,4827,4832
CLN 14	4808	South of 4810 & 4811	RND	176	57,800		4812,150A Reclaimed
CLN 15	4820	East of Santiago	DTH	33	37,500		
CLN 18	4834 and 4808	South of Santiago	RND	43	47,800		
CLN 19	4041	South of Santiago	URC	5	8,500		
CLN 20	4153	Southeast of McAdams	See MID 5				
CLN 25	4006	Northeast of Candor	URC	28	61,000		
CLN 26	4153	Southeast of McAdams	URC	8	12,000		
<u>MIDWAY QUADRANGLE:</u>							
MID 2	4031	Northwest of Primrose	URC	44	87,000		4026
MID 3	4031	North of Primrose	RND	98	157,700		4025,4029,4030 18A Reclaimed
MID 4	4034	Northeast of Primrose	RND	151	68,450		4032,4033,4035, 4036,4037,4038
						\$3,674,600	

61-X

TOTAL RECLAMATION OF STRIP MINE

ASSOCIATED WITH MINOR SOURCES

ESTIMATED COST FOR TOTAL RECLAMATION OF
STRIP MINES ASSOCIATED WITH MINOR SOURCES
CHARTIERS CREEK BASIN

Strip Mine No.	Pollution Source	Strip Mine Location	Strip Mine Condition	Estimated Acreage	Estimated Cost Reclaim	Remarks
<u>PITTSBURGH WEST QUADRANGLE:</u>						
PGW 1	4965	South of Ewingville	URC	12	\$32,500	
PGW 8	6013	North of Parkway West	DAH	13	4,400	
PGW 9	6012	Between Parkway West & Zimmer Road	RND	24	39,800	
PGW 10	6015	North of Zimmer Road	RND	34	63,800	11 Acres Reclaimed
PGW 18	6042	Around Moon Run	URC	36	109,000	
PGW 19	6012,6015	South of Zimmer Road	See PGW 9			
PGW 21	6015	North of Campbells Run	See PGW 10			
<u>OAKDALE QUADRANGLE:</u>						
OAK 7	4657	Updip of 4972, South of Rennerdale	URC	44	143,500	
OAK 11	4959,4960 4961	West of Sturgeon	DAH	33	30,900	
OAK 15	4847	North of Noblestown	DAH	11	12,500	
OAK 18	4689,4684	North of Oakdale	URC	29	43,500	
OAK 22	4685,4687	East of McKee Road	DAH	16	15,800	
OAK 23	4683	Between McKee & Gambel Rds.	RND	40	54,600	
OAK 24	4677,4678	Northeast of Oakdale	RND			Combined with OAK 25

X-21

Estimated Cost for Total Reclamation of Strip Mines Associated with Minor Sources

Strip Mine No.	Pollution Source	Strip Mine Location	Strip Mine Condition	Estimated Acreage	Estimated Cost Reclaim	Remarks
OAK 25	4676,4674 4673	West of Gregg	RND	162	\$242,000	
OAK 27	4668,4669 4670	Between McKee Rd. & County Regional Park #6	RND	48	45,500	
OAK 28	4671,4672	Inside County Regional Park #6	DTH	6	14,100	
OAK 29	4671,4672	Inside County Regional Park #6, Updip of 4971 & 4972 on Pinkerton Run	DTH	25	39,000	
OAK 32	6029	Between Pinkerton & Lintons Run	RND	101	107,000	
OAK 35	4665,4666	On Both Sides of Cowan Road	RND	102	130,100	
OAK 36	4664,4667, 4662,4661, 4660	Northwest of Rennerdale & South of Baldwin Rd.	RND	59	79,700	
OAK 37	4659,4665	Northeast of Rennerdale & West of Scotts Run	RND	86	133,500	
OAK 38	4659,4665	N. of Baldwin Rd. Between Ridge Rd. & McMichael Rd.	RND	70	47,000	
OAK 43	6025,6026 6024,6023	Between McMichael Rd. & Glass Rd.	RND	55	33,900	
OAK 45	6011,6000	Between Glass Rd. & Pa. 60	URC	10	37,500	
OAK 55	4819,4818, 4817,4821	Between W. Allegheny High School & Fayetteville South of Rts. 22-30	RND	65	33,600	

X-22

Estimated Cost for Total Reclamation of Strip Mines Associated with Minor Sources

Strip Mine No.	Pollution Source	Strip Mine Location	Strip Mine Condition	Estimated Acreage	Estimated Cost Reclaim	Remarks
OAK 57	4694,4693	South of Fayetteville	DAH	10	\$25,500	
<u>CLINTON QUADRANGLE:</u>						
CLN 4	4005,4012 4013,4014, 4015	Northeast of Bulger	URC	48	81,600	
<u>MIDWAY QUADRANGLE:</u>						
MID 10	4058	Southeast of Westland	RND	14	27,000	
MID 14	4004	Northwest of Midway	URC	18	<u>52,000</u>	
TOTAL:					\$1,679,300	