

PROJECT SL 192
PINEY CREEK WATERSHED CLARION
COUNTY, PENNSYLVANIA

Prepared By:
GWIN, DOBSON AND FOREMAN,
INC.
CONSULTING ENGINEERS
ALTOONA, PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL RESOURCES

REVIEW NOTICE

This report, prepared by outside consultants, has been reviewed by the Department of Environmental Resources and approved for publication. The contents indicate the conditions that are existing as determined by the consultant, and the consultant's recommendations for correction of the problems. The foregoing does not signify that the contents necessarily reflect the policies, views, or approval of the Department.

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
Purpose and Scope	2
Location and Description	3
Previous Investigations	4
SUMMARY	5
RECOMMENDATIONS	6
GEOLOGY	10
Introduction	10
Structure	10
General Geology	10
Quaternary Series	10
Pennsylvania Period	11
Conemaugh Group	11
Allegheny Group	11
Freeport Formation	11
Kittaning Formation	11
Clarion Formation	11
Pottsville Group	12
Homewood Formation	12
Mercer Formation	12
Connequenessing Formation	12
Mississippian Period	13
Pocono Group	13
General Geologic Column	14
Geologic Factors Affection Production of Acid Mine Drainage	16
MINING HISTORY	19
STREAM QUALITY EVALUATION	21
General Description	21
Data Collection	21
Discussion of Results	22
Table 1 Average In-Stream Acidity Loadings	23
Table 2 In-Stream Acidity Loading in Region 1	23
Conclusions	25
PROPOSED ABATEMENT PLAN	27
Index to Project Areas	27
Legend for Project Area Maps	28
Project Areas 1 through 18	30
Estimated Abatement Project Costs	76
Key To Stripping Permits on Base Map	77
ACKNOWLEDGMENTS	81
REFERENCES	82
<u>APPENDIX A: FIELD DATA AND CHEMICAL ANALYSIS - SOURCE SAMPLING</u>	
<u>APPENDIX B: FIELD DATA AND CHEMICAL ANALYSIS - STREAM SAMPLING</u>	
<u>APPENDIX C: FIELD DATA AND CHEMICAL ANALYSIS - SOURCE SAMPLING - ELIMINATED</u>	
<u>APPENDIX D: HYDROGEOLOGIC YEAR - 1975 AND 1976</u>	