



SUSQUEHANNA RIVER
BASIN COMMISSION

TABLE OF CONTENTS

Introduction. 1

Description. 2

Methods - Data Collection. 3

Methods - Data Analysis. 4

Results/Discussion. 5

Sites and Discharges. 8 - 14

Conclusions/Recommendations. 14

Contacts. 15

References. 16

Appendix. 18

Acknowledgements. 19

*This technical report was produced by:
Susan R. LeFevre, Aquatic Ecologist*

West Branch Susquehanna River Subbasin Small Watershed Study: Morgan Run Watershed

*A Water Quality and Biological Assessment,
November 2003 - September 2004*

The Susquehanna River Basin Commission (SRBC) conducted a survey in the Morgan Run Watershed from November 2003 to September 2004 as part of the Year-2 small watershed study in the West Branch Susquehanna River Subbasin (Figure 1). The Year-1 survey was conducted in the West Branch Susquehanna Subbasin from July to November 2002 (LeFevre, 2003). Through this Year-1 survey, SRBC determined that the largest source of impairment in the West Branch Subbasin was abandoned mine drainage (AMD), and a large portion of the abandoned mine lands (AML) were concentrated in the western part of the subbasin. Based on these findings from the Year-1 survey and input from state and local government officials and watershed organizations, SRBC decided to conduct its Year-2 study in the Morgan Run Watershed, which is heavily impacted by AMD. The goal of this Year-2 study was to provide chemical, biological, and habitat information to the state and local government officials, watershed organizations, local citizens, and

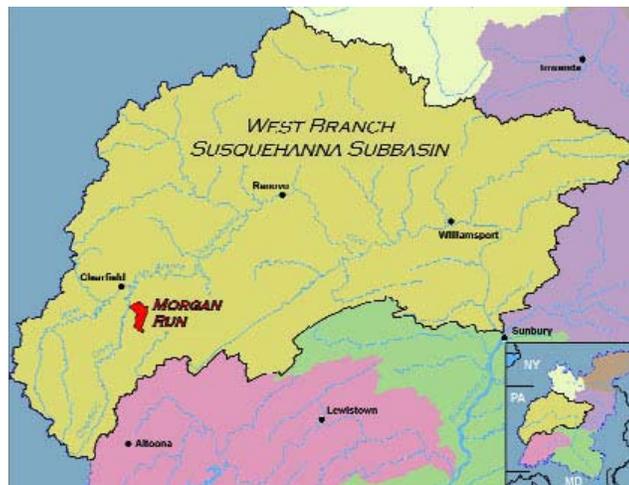


Figure 1. Morgan Run Watershed Located in the West Branch Susquehanna Subbasin

other interested parties. The ultimate goal is to have a Total Maximum Daily Load (TMDL) and restoration plan developed and implemented for the Morgan Run Watershed.

The Year-2 survey included quarterly water chemistry samples and flow measurements, and spring and summer sampling and assessment of macroinvertebrates, fish, and habitat. For more information on the Subbasin Survey Program at SRBC, see reports by Diehl and Sitlinger (2001), LeFevre (2002), LeFevre (2003), and LeFevre (2004). These reports are posted on SRBC's web site at <http://www.srbc.net/techreports.htm>.



Morgan Run downstream of Crooked Sewer Run