

CP-35

Contract No. DACW56-72-C-0161

Steve Nolan  
Corps of Eng

2-22-89

FINAL REPORT

A BIOLOGICAL AND HISTORICAL  
INVENTORY AND ASSESSMENT OF THE TENKILLER FERRY PROJECT

to

Department of the Army  
Tulsa District, Corps of Engineers

Prepared By

Dr. Hague L. Lindsay, Department of Life  
Sciences, The University of Tulsa

Dr. Paul Buck, Department of Life Sciences,  
The University of Tulsa

Dr. Thomas H. Buckley, Department of History,  
The University of Tulsa

TABLE OF CONTENTS

PART I. A BIOLOGICAL INVENTORY AND ENVIRONMENTAL STUDIES RELATING TO TENKILLER FERRY RESERVOIR

Summary . . . . . 1

I. INTRODUCTION . . . . . 2

II. BIOGEOGRAPHICAL POSITION OF LAKE TENKILLER . . . . . 5

III. MAJOR HABITATS OF THE LAKE TENKILLER AREA IN RELATION TO PHYSIOGRAPHIC AND GEOLOGIC FEATURES . . . . . 7

    A. Hydric Habitats . . . . . 7

    B. Mesic Habitats . . . . . 11

    C. Xeric Habitats . . . . . 12

IV. BIOTA OF THE LAKE TENKILLER AREA . . . . . 14

    A. Plants . . . . . 14

        1. Hydric Communities . . . . . 16

        2. Mesic Communities . . . . . 20

        3. Xeric Communities . . . . . 22

    B. Animals . . . . . 24

        1. The Fishes . . . . . 24

        2. The Amphibians . . . . . 32

        3. The Reptiles . . . . . 36

        4. The Birds . . . . . 40

        5. The Mammals . . . . . 53

V. ENDEMIC AND RARE SPECIES OF THE LAKE TENKILLER AREA . . . . . 57

VI. POSSIBLE ECOLOGICAL EFFECTS OF PROPOSED CHANGES IN THE OPERATION OF THE TENKILLER FERRY RESERVOIR . . . . . 62

LITERATURE CITED . . . . . 67

PART II. A HISTORICAL INVENTORY AND ASSESSMENT OF THE TENKILLER FERRY PROJECT AREA

INTRODUCTION . . . . . 70

LOCATIONS AND DESCRIPTIONS OF HISTORICAL SITES IN THE LAKE TENKILLER PROJECT AREA . . . . . 70

IMPACT OF PROPOSED PROJECT ON HISTORICAL SITES . . . . . 77