# CONTENTS

1. **GENERAL INTRODUCTION** 01

2. **PHYSICO-CHEMICAL PARAMETERS OF WATER AND SEDIMENT** 07
   2.1. Introduction
   2.2. Materials and Methods
   2.3. Results
   2.4. Discussion

3. **MICROBIOLOGICAL ANALYSES** 53
   3.1. Introduction
   3.2. Materials and Methods
   3.3. Results
   3.4. Discussion

4. **MOLECULAR CHARACTERIZATION** 123
   4.1. Introduction
   4.2. Materials and Methods
   4.3. Results
   4.4. Discussion

5. **SUMMARY** 138

6. **BIBLIOGRAPHY** 147