TABLE OF CONTENTS

ACKNOWLI	EDGEMENTS	II
ABSTRACT		III
TABLE OF CONTENTS		V
LIST OF ABBRIVIATIONS		VI
LIST OF FIG	URES	IX
LIST OF TAI	BLES	X
LIST OF API	PENDICES	XI
CHAPTER 1	1: INTRODUCTION	1
1.1	BACKGROUND	1
1.2	PROBLEM DEFINITION	2
1.3	HYPOTHESIS	3
1.4	RESEARCH OBJECTIVES	3
1.5	METHODOLOGY	4
CHAPTER 2	2: LETERATURE REVIEW	5
2.1	INTRODUCTION	5
2.2	WASTEWATER TREATMENT	6
2.3	ANAEROBIC VERSUS AEROBIC TREATMENT	8
	2.3.1 CONVENTIONAL WASTEWATER TREATMENT2.3.2 ANAEROBIC WASTEWATER TREATMENT	10 11
2.4	ADVANTAGES, DRAWBACKS AND PROSPECTS OF ANAEROBIC TREATMENT SYSTEMS	14
2.5	ANAEROBIC REACTORS IN SERIES WITH MECHANICALLY AERATED TREATMENT SYSTEMS	15
	2.5.1 OXIDATION DITCH 2.5.2 TRICKLING FILTER 2.5.3 LOW ENERGY POST TREATMENT TECHNOLOGIES 2.5.4 CONSTRUCTED WETLANDS	15 16 16 17
2.6	CHARACTERISTICS OF THE MEDITERRANEAN REGION	19
2.7 2.8	EXISTING WASTEWATER TREATMENT TECHNOLOGIES IN THE MEDITERRANEAN REGION SUMMARY OF LITERATURE REVIEW	24 37

CHAPTER 3	3: RESEARCH METHODOLOGY	38
CHAPTER 4	4: TECHNOLOGY SELECTION OF WASTEWATER TREATMENT	41
4.1	INTRODUCTION	41
4.2	REWARDS AND RISKS IN ENVIRONMENTAL TECHNOLOGY	42
4.3	ASSESSMENT OF THE SUSTAINABILITY OF SEWAGE TREATMENT SYSTEMS	44
4.4	ASSESSING O&M NEEDS	55
4.5	DISTRIBUTION OF ROLES IN TECHNOLOGY SELECTION PROCESS 4.5.1 COMMUNITY PARTICIPATION 4.5.2 ROLE OF THE PRIVATE SECTOR 4.5.3 ROLE OF THE UNIVERSITIES 4.5.4 ROLE OF DONORS AND AID AGENCIES	57 57 59 60 61
CHAPTER	5: FINANCIAL AND ECONOMIC ISSUES	63
5.1	INTRODUCTION	63
5.2	EXISTING SOURCES OF FUNDING	63
5.3	IDENTIFICATION OF ALTERNATIVES	64
5.4	COST-EFFICTIVE ANALYSIS METHODOLOGY 5.4.1 EVALUATION OF WASTEWATER TREATMENT ALTERNATIVES FOR HEBRON CITY (PALESTINE) 5.4.2 ASSESSMENT OF SUSTAINABILITY OF ANAEROBIC SEWAGE TREATMENT IN SALTA (ARGENTINA) 5.4.3 INDICATIVE ECONOMIC ANALYSIS OF WASTEWATER TREATMENT IN DEVELOPING COUNTRIES 5.4.4 COST COMPARISON OF WASTEWATER TREATMENT TECHNOLOGIES FOR TROPICAL CONDITIONS	65 67 69 70
CHAPTER (5: RESEARCH RESULTS AND DISCUSSION	73
6.1	PROFESSIONALS' QUESTIONNAIRE 6.1.1 WATER RESOURCES 6.1.2 SOCIAL CRITERIA 6.1.3 WASTEWATER TREATMENT 6.1.4 ANAEROBIC WASTEWATER TREATMENT TECHNOLOGIES 6.1.5 SLUDGE PRODUCED BY ANAEROBIC TREATMENT	73 73 74 76 80 82
6.2 6.3 CHAPTER 7 7.1 7.2 REFERENC APPENDIC		83 87 92 92 94 95
	LO LIN ADARIC	10