

CONTENTS

PART I: HOW TO USE THIS MANUAL	1
BACKGROUND	1
NEED FOR SITE SUPERVISOR TRAINING	1
TRAINING SESSION MODELS.....	1
TYPES OF APPLICATIONS SUPPORTED BY THIS MANUAL	2
ORGANIZATION OF THE MANUAL	3
ADDITIONAL MANAGEMENT PRACTICES	3
A NOTE ON TERMINOLOGY	3
DISCLAIMER	3
PART 2: MANUAL FOR USERS OF RECLAIMED WATER	5
SECTION 1. INTRODUCTION	5
WHAT IS RECLAIMED WATER?.....	5
WHY REUSE WATER?	5
WHAT CAN RECLAIMED WATER BE USED FOR?	6
WHAT ARE DUAL-PLUMBED SITES?.....	6
ARE THERE OTHER RISKS TO USING RECLAIMED WATER?	6
SECTION 2. APPLICABLE REGULATIONS, ORDINANCES, GUIDELINES	8
NEED FOR REGULATIONS.....	8
SECTION 3. TREATMENT TECHNOLOGIES	9
PRELIMINARY TREATMENT.....	9
PRIMARY TREATMENT.....	10
SECONDARY TREATMENT.....	10
TERTIARY TREATMENT.....	10
SECTION 4. WATER QUALITY	11
WATER QUALITY FOR PUBLIC HEALTH PROTECTION	11
WATER QUALITY FOR CUSTOMER REQUIREMENTS	12
GRADES OF RECLAIMED WATER AND APPROPRIATE USES OF EACH	14
SAFETY OF RECLAIMED WATER	15
SECTION 5. IDENTIFICATION OF RECLAIMED WATER AND POTABLE WATER SYSTEMS	16
ABOVE-GRADE RECLAIMED WATER LINES	16
NEW BURIED RECLAIMED WATER LINES	16
EXISTING BURIED RECLAIMED WATER LINES	17
VALVE BOXES	17
QUICK COUPLING VALVES	17
IDENTIFICATION OF IRRIGATION CONTROLLERS	18
OTHER VALVES AND DEVICES.....	18

SECTION 6. SITE CONTROL	20
CROSS-CONNECTION CONTROLS AND BACKFLOW PREVENTION	20
PROTECTION OF POTABLE WATER SYSTEMS	20
SECTION 7. CROSS-CONNECTION TEST	25
INITIAL CROSS-CONNECTION TEST.....	25
FINAL CROSS-CONNECTION TEST.....	26
PERIODIC CROSS-CONNECTION TESTING [SPECIFIC TO CALIFORNIA].....	26
FINAL INSPECTION AND APPROVAL UPON COMPLETION OF SYSTEM EXPANSION	27
CONSTRUCTION INSPECTION DURING SYSTEM EXPANSION OR MODIFICATION	27
SECTION 8. OVERSIGHT, TESTING, AND RECORD KEEPING.....	28
COVERAGE TEST	28
PREVENTION OF OVERSPRAY, RUNOFF, AND PONDING.....	28
PROTECTION OF DRINKING FOUNTAINS AND OUTDOOR EATING AREAS	28
PROTECTION OF AQUIFERS	28
HOSE BIBS	29
INSPECTIONS.....	29
RECORD DRAWINGS	29
SECTION 9. RECLAIMED WATER ADVISORY SIGNS.....	30
IRRIGATION SYSTEMS AT FENCED FACILITIES	30
IRRIGATION SYSTEMS AT FACILITIES NOT SURROUNDED BY FENCES	30
SECTION 10. OPERATION AND MAINTENANCE.....	31
SITE SUPERVISOR	31
SITE SUPERVISOR RESPONSIBILITIES	31
MAINTENANCE	32
PERSONNEL TRAINING.....	32
ANNUAL SELF-INSPECTION REPORT	33
TRANSFER OF PROPERTY/OWNERSHIP	33

PART III: APPENDICES

APPENDIX A: LITERATURE REVIEW	A1
APPENDIX B: DEFINITIONS	B1
APPENDIX C: OFFICIAL STATEMENTS OF SUPPORT FOR WATER RECLAMATION IN CALIFORNIA AND FLORIDA	C1
APPENDIX D: SAMPLES OF FORMS, FROM SOUTH BAY WATER RECYCLING, SAN JOSE, CA	D1
APPENDIX E: APPLICABLE LAWS AND REGULATIONS	E1
APPENDIX F: REUSE SITE PRESSURE-TESTING PROCEDURE.....	F1
APPENDIX G: EMERGENCY CROSS-CONNECTION RESPONSE PLAN	G1