



ECOSYSTEMIC SUPPLY CHAIN

a Research and Development Centre for Urban Agriculture

ECOSYSTEMIC SUPPLY CHAIN
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Submitted in partial fulfilment of the requirements for the degree
Master of Architecture (Professional) in the Faculty of Engineering,
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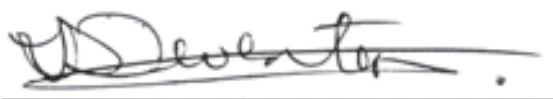
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Submission Date: 2011

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I further state that no part of my thesis has already been, or is currently being, submitted for any such degree, diploma or other qualification.

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Thomas Van Deventer



ABSTRACT

With our ever increasing global population it will be necessary for dense urban environments to develop methods of farming locally. Not only will urban agriculture be beneficial in aiding in the solution of this growing populations need for food production, but it can help to reconnect us to our food and their processes. This dissertation explores the education and reconnection of the public with the food production cycle through the experience of building integrated agriculture, vermiculture and aquaponic systems (cultivating plants and fish symbiotically).

Pretoria's Apies River is an ideal location for the establishment of a research facility of urban ecosystemic food production. The proposed urban agriculture program will allow for hands on research and development of emerging methods and technologies related to farming in the city environment while providing a platform for public education through interaction & inspiration.



PROJECTS INFORMATION

Function:	URBAN FOOD RESEARCH AND DEVELOPMENT
Site Description:	Site on the edge of the Apies River and along Church street forming gateway into the city from Arcadia.
Client:	Joint venture by Agri SA, CSIR and City of Tshwane.
Users:	Researchers, Urban Farmers, Retailers & Students
Site Location:	Erf 11/1016, Arcadia
Address:	c/o Nelson Mandela Drive & Church Street
GPS Coordinates:	25°44'43.09"S, 28°12'2.76"E
Theoretical Premise:	URBAN FOOD RESEARCH AND DEVELOPMENT
Architectural Approach:	URBAN FOOD RESEARCH AND DEVELOPMENT
Research Field:	ENVIRONMENTAL POTENTIAL



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For all the sunny days missed outside and all the rainy days not spent in bed...

A special thanks to friends, family and loved ones for a lifetime of support.

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CONTENTS

1. INTRODUCTION	14	3. THEORY	44
<i>INTRODUCTION</i>	14	<i>BACKGROUND</i>	44
<i>STUDY OVERVIEW</i>	16	<i>CURRENT THEORY</i>	46
<i>DESIGN OVERVIEW</i>	17	<i>BIOMIMICRY</i>	46
<i>PROPOSAL</i>	18	<i>GENERAL DESIGN STRATEGIES</i>	49
2. RESEARCH	22	4. CONTEXT	52
2.1 FOOD CRISIS	22	<i>CONTEXTUAL PROBLEM</i>	52
<i>REAL WORLD PROBLEM</i>	22	<i>SITE SELECTION</i>	52
<i>THE CAUSES</i>	22	<i>PRETORIA CITY</i>	54
<i>STAPLE FOODS</i>	28	<i>STUDY AREA</i>	55
<i>CONCLUSION</i>	29	<i>THE CITY AND RIVER IN TENSION</i>	60
2.2 FOOD AS A SYSTEM	30	5. FRAMEWORK	64
<i>FOOD WEB</i>	30	5.1 MACRO SCALE	64
<i>ECOSYSTEM</i>	30	<i>REACT & REINTERPRET</i>	64
<i>PLANT GROWTH SYSTEM</i>	31	<i>EXISTING FRAMEWORKS</i>	66
<i>FARMING SYSTEM</i>	32	<i>PUBLIC SPACE NETWORKS</i>	69
<i>NEGATIVE EFFECTS OF FARMING</i>	33	5.2 MESO SCALE	70
<i>PROBLEM STATEMENT</i>	34	<i>APIES RIVER (FOCUS AREA)</i>	70
<i>CONCLUSION</i>	35	<i>CLIMATIC DATA</i>	74
2.3 URBAN AGRICULTURE	36	5.3 MICRO SCALE	76
<i>URBAN FARMING METHODS</i>	36	<i>BUILDING & LAND USE</i>	76
<i>ARCHITECTURE AND FARMING</i>	36	<i>DYSFUNCTIONAL SITES</i>	78
<i>VERTICAL FARMING</i>	37	<i>KEY DEVELOPMENT NODES</i>	79
<i>BENEFITS OF VERTICAL FARMING</i>	38	<i>EDGE CONDITIONS</i>	80
<i>SOILLESS FARMING</i>	38		
<i>FARMING IN A BALANCED SYSTEM</i>	40		



6. PRECEDENTS	84	8. TECHNICAL	118
<i>CASE STUDY</i>	84	8.1 CONSTRUCTION	118
<i>PRECEDENT STUDIES</i>	86	8.2 TECHNOLOGY	124
7. DESIGN DEVELOPMENT	98	8.3 SERVICES	128
<i>CONCEPT: ARCHITECTURE AS MEDIATOR</i>	98	9. DESIGN DOCUMENTATION	130
<i>DESIGN GENERATORS</i>	98	<i>DRAWINGS: PLANS</i>	132
<i>CONNECTING THE EDGES</i>	99	<i>DRAWINGS: SECTIONS</i>	138
<i>SITE DEVELOPMENT</i>	100	<i>PHOTOS: MODEL</i>	142
<i>RIVER CONNECT</i>	102	<i>CGI: INTERIORS</i>	146
<i>ENVIRONMENTAL RESPONSE</i>	104	<i>CGI: EXTERIORS</i>	150
<i>PROGRAM</i>	108		
<i>MASSING STUDY</i>	114	10. APPENDIXES	154



Illustration 02: Hand Holding Plant



List of Figures

FIGURE 01: MAP INDICATING GLOBAL UNDERNOURISHMENT BY CATEGORY	15
(Adapted by Author: March, 2011)	
FIGURE 02: THE INDIVIDUALS DAILY BIRTHRIGHT	22
(Adapted by Author: March, 2011) (DESPOMMIER, Dickson, 2008)	
FIGURE 04: THE GLOBAL URBANIZATION RATE BY DEVELOPED REGIONS	23
(Adapted by Author: March, 2011)	
FIGURE 03: GLOBAL POPULATION GROWTH PROJECTIONS	23
(Adapted by Author: March, 2011)	
FIGURE 05: PERCENTAGE OF AVAILABLE ARABLE LAND CURRENTLY IN USE	25
(Adapted by Author: March, 2011) (DESPOMMIER, Dickson, 2008)	
FIGURE 06: ADDITIONAL LAND MASS REQUIRED FOR PROJECTED POPULATION GROWTH BY 2050	25
(Adapted by Author: March, 2011) (DESPOMMIER, Dickson, 2008)	
FIGURE 07: MAP SHOWING AVAILABLE ARABLE LAND WORLDWIDE	26
(Adapted by Author: March, 2011)	
FIGURE 08: WORLD AVERAGE DIET SHOWN AS PERCENTAGES FROM 1988 - 1990	29
(Adapted by Author: April, 2011)	
FIGURE 09: EXAMPLE OF A FOOD WEB	30
(Unknown Author)	
FIGURE 10: PHOTOSYNTHESIS AND RESPIRATION	31
(Unknown Author)	
FIGURE 11: FARMING SYSTEM DIAGRAM	32
(Adapted by Author: March, 2011)	
FIGURE 13: MODERN AGRICULTURE PROCESS AS A RESOURCE HEAVY AND WASTEFUL PROCESS	34
(Adapted by Author: April, 2011) (DESPOMMIER, Dickson, 2008)	
FIGURE 12: COMPARISON BETWEEN BIOSPHERE AND TECHNO-SPHERE	34
(DESPOMMIER, Dickson, 2008)	
FIGURE 14: ARTISTS IMPRESSION OF THE HANGING GARDENS OF BABYLON	36
(Author Unknown)	
FIGURE 15: "THE LIVING SKYSCRAPER: FARMING THE URBAN SKYLINE" BY BLAKE KURASEK	37
(KURASEK, Blake)	
FIGURE 16: HYDROPONIC FARMING SYSTEM DIAGRAM (INDOOR)	39
(Adapted by Author: March, 2011)	
FIGURE 17: A DIAGRAMATIC EXPLANATION OF AQUAPONICS	41
(DAVIS, Blake, 2010)	
FIGURE 18: A DIAGRAMATIC EXPLANATION OF A "CRADLE TO CRADLE" FARMING SYSTEM	41
(Adapted by Author: March, 2011)	
FIGURE 19: THE GEODESIC DOME BY BUCKMINSTER FULLER	44
(GRUBER, Petra, 2011)	
FIGURE 20: STUDIES IN BIRD FLIGHT BY LEONARDO DA VINCI	45
(GRUBER, Petra, 2011)	
FIGURE 21: BIOMIMICRY AS A DESIGN TOOL	46
(GRUBER, Petra, 2011)	
FIGURE 22: EXAMPLES OF DESIGN INSPIRED BY NATURE	47
(Photo montage by Author: May, 2011)	
FIGURE 23: RESPONSIVE SURFACE STRUCTURES BY STEFFEN REICHERT	48
(HENSEL, Michael and Menges, Achim, 2008)	
FIGURE 24: PRETORIA LOCATION DIAGRAM	52
(By Author: May, 2011)	
FIGURE 26: SITE LOCATION, MACRO SCALE	53
(By Author: March, 2011)	
FIGURE 25: SITE LOCATION DIAGRAM	53
(By Author: May, 2011)	
FIGURE 28: APIES RIVER SYSTEM	55
(Adapted by Author: May, 2011)	
FIGURE 27: PRETORIA CITY ORGANIZING ELEMENTS	55
(By Author: May, 2011)	
FIGURE 29: APIES RIVER WITH MEINTJIES KOP, HENK PIERNEEF	56
(BOLSMAN, E, 2001: 135)	
FIGURE 30: PRETORIA IN 1872, THOMAS BAINES	56
(BOLSMAN, E, 2001: 20)	
FIGURE 31: CANALIZATION OF THE APIES RIVER, PIETER WENNING	56
(BOLSMAN, E, 2001: 134)	
FIGURE 34: FIGURE GROUND OF CURRENT DAY PRETORIA, GRID FORM STILL VISIBLE	57
(By Author: May, 2011)	
FIGURE 32: THE FIRST MAP OF PRETORIA	57
(Allen, V. 1971)	
FIGURE 33: THE ROMAN URBS QUADRATA	57
(Jordaan, G.J. 1989)	
FIGURE 35: PRETORIA ROAD MAP (BEFORE NELSON MANDELA DRIVE)	58
(Boukunde Reading Room)	
FIGURE 36: PHOTO: AUTOMOTIVE DOMINATED CHARACTER OF NELSON MANDELA DRIVE	59
(By Author: May, 2011)	
FIGURE 37: CITY DEVELOPMENT DIAGRAM SHOWING IMPACT ON RIVER THRESHOLD	61
(By Author: June, 2011)	
FIGURE 38: INDIVIDUAL GROUP STUDY AREAS	65
(By Framework group: May, 2011)	
FIGURE 39: OVERLAY OF EXISTING INNER CITY FRAMEWORKS	66
(LOOTS, Annemarie, 2007)	
FIGURE 40: INNER CITY DEVELOPMENT STRATEGY	66
(LOOTS, Annemarie, 2007)	
FIGURE 41: TSHWANE CROSSING	67
(LOOTS, Annemarie, 2007)	
FIGURE 42: RE KGABISA TSHWANE FRAMEWORK	67



FIGURE 43: NELSON MANDELA DEVELOPMENT CORRIDOR	67
(LOOTS, Annemarie, 2007)	
FIGURE 45: TSHWANE INNER CITY LOCAL OPEN SPACE PLAN.....	68
(LOOTS, Annemarie, 2007)	
FIGURE 44: APIES RIVER URBAN DESIGN FRAMEWORK	68
(LOOTS, Annemarie, 2007)	
FIGURE 46: TSHWANE INNER CITY OPEN SPACE NETWORK	69
(By Author: June, 2011)	
FIGURE 47: CHARACTER OF THE CHOSEN STUDY AREA	70
(Adapted by Author: June, 2011)	
FIGURE 48: RIVER AS A URBAN STRIP PARK	72
(By Author: June, 2011)	
FIGURE 49: RIVER AS A THRESHOLD BETWEEN DISTRICTS.....	72
(By Author: June, 2011)	
FIGURE 50: THE RIVER CONNECTING THE OPEN SPACE NETWORK.....	73
(By Author: June, 2011)	
FIGURE 51: SOUTH AFRICA CLIMATIC ZONES AS PER SANS 204.....	74
(SANS 204)	
FIGURE 54: SUN PATH FOR PRETORIA	75
(By Author: July, 2011)	
FIGURE 52: AVERAGE MIDDAY TEMP.....	75
(By Author: July, 2011)	
FIGURE 56: AVERAGE NIGHT TEMP.....	75
(By Author: July, 2011)	
FIGURE 53: AVERAGE RAINFALL.....	75
(By Author: July, 2011)	
FIGURE 55: PRETORIA WIND ROSE.....	75
(By Author: July, 2011)	
FIGURE 57: MACRO SCALE: LAND USAGE	76
(By Author: July, 2011)	
FIGURE 58: BUILDING EDGE CONDITION	77
(By Author: July, 2011)	
FIGURE 59: RIVER ACCESS	77
(By Author: July, 2011)	
FIGURE 60: PEDESTRIAN MOVEMENT.....	77
(By Author: July, 2011)	
FIGURE 61: SITE IDENTIFIED WITH INAPPROPRIATE USAGE OR PROGRAMME.....	78
(By Author: July, 2011)	
FIGURE 62: PROPOSED REDEVELOPMENT OF SITES OR BUILDINGS	78
(By Author: July, 2011)	
FIGURE 64: OPPORTUNITIES FOR ACTIVITY NODES.....	79
(By Author: July, 2011)	
FIGURE 63: POINTS WITH CULTURAL OR HERITAGE VALUE.....	79
(By Author: July, 2011)	
FIGURE 66: APIES RIVER SECTION.....	80
(By Framework group: July, 2011)	
FIGURE 65: STREET SECTION THROUGH CHURCH STR.....	80
(By Framework group: July, 2011)	
FIGURE 67: MAP INDICATING POSITION OF STREET SECTIONS.....	81
(By Framework group: July, 2011)	
FIGURE 68: STREET SECTION THROUGH NELSON MANDELA DRV	81
(By Framework group: July, 2011)	
FIGURE 69: THE GREENHOUSE PROJECT CONSTRUCTION PHOTOS.....	84
(LEBELO, Dorah and Nel, Michelle, 2004)	
FIGURE 70: CONSERVATORY TODAY STANDS EMPTY AND NEGLECTED.....	85
(LEBELO, Dorah and Nel, Michelle, 2004)	
FIGURE 71: THE GREENHOUSE PROJECT: SITE PLAN.....	85
(LEBELO, Dorah and Nel, Michelle, 2004)	
FIGURE 72: GHP OFFICE BUILDING, OLD POTTING SHED.....	85
(LEBELO, Dorah and Nel, Michelle, 2004)	
FIGURE 73: PERSPECTIVE VIEW OF LA TOUR VIVANTE.....	86
(SOA Architects)	
FIGURE 77: LA TOUR VIVANTE: 3D SECTION SHOWING SERVICES.....	87
(SOA Architects)	
FIGURE 74: LA TOUR VIVANTE: SITE PLAN.....	87
(SOA Architects)	
FIGURE 75: LA TOUR VIVANTE: TYPICAL PLANS.....	87
(SOA Architects)	
FIGURE 76: LA TOUR VIVANTE: SECTION SHOWING MIXED USE.....	87
(SOA Architects)	
FIGURE 78: ECO-LABORATORY: BUILDING PERSPECTIVE.....	88
(Weber_Thompson Architects)	
FIGURE 79: ECO-LABORATORY: CONNECTION TO NATURAL RESOURCES.....	88
(Weber_Thompson Architects)	
FIGURE 80: ECO-LABORATORY: COURTYRAD VIEW	88
(Weber_Thompson Architects)	
FIGURE 81: ECO-LABORATORY: FACADE STUDY.....	88
(Weber_Thompson Architects)	
FIGURE 82: ECO-LABORATORY: BUILDING SYSTEM DIAGRAMS.....	89
(Weber_Thompson Architects)	
FIGURE 83: CUA: HABITAT REINTRODUCTION AREA.....	90



<i>FIGURE 84: CUA: WATER COLLECTION AREA.....</i>	90
(Mithun Architects)	
<i>FIGURE 85: CUA: ENERGY COLLECTION AREA.....</i>	90
(Mithun Architects)	
<i>FIGURE 86: CUA: FOOD PRODUCTION AREA.....</i>	90
(Mithun Architects)	
<i>FIGURE 88: CUA: BUILDING PERSPECTIVE SHOWING USE OF UNDER-UTILIZED LAND.....</i>	91
(Mithun Architects)	
<i>FIGURE 87: CUA: BUILDING PERSPECTIVES.....</i>	91
(Mithun Architects)	
<i>FIGURE 89: OSLO OPERA HOUSE: MASSING STUDY.....</i>	92
(Snohetta AS)	
<i>FIGURE 90: OSLO OPERA HOUSE: BUILDING PERSPECTIVE FROM WATER.....</i>	93
(Snohetta AS)	
<i>FIGURE 91: OSLO OPERA HOUSE: ELEVATION VIEWS.....</i>	93
(Snohetta AS)	
<i>FIGURE 95: HONG KONG DESIGN CENTRE: CONCEPT MODELS.....</i>	94
(FAR Frohn & Rojas)	
<i>FIGURE 92: HONG KONG DESIGN CENTRE: SECTIONS.....</i>	94
(FAR Frohn & Rojas)	
<i>FIGURE 93: HONG KONG DESIGN CENTRE: ELEVATIONS.....</i>	94
(FAR Frohn & Rojas)	
<i>FIGURE 94: HONG KONG DESIGN CENTRE: PERSPECTIVES SHOWING BUILDING IN URBAN LANDSCAPE.....</i>	94
(FAR Frohn & Rojas)	
<i>FIGURE 96: HONG KONG DESIGN CENTRE: BUILDING SHAPE RESPONDS TO VIEW.....</i>	95
(FAR Frohn & Rojas)	
<i>FIGURE 97: HONG KONG DESIGN CENTRE: BUILDING SHAPE RESPONDS TO DAYLIGHT.....</i>	95
(FAR Frohn & Rojas)	
<i>FIGURE 98: HONG KONG DESIGN CENTRE: BUILDING SHAPE RESPONDS TO PROGRAM.....</i>	95
(FAR Frohn & Rojas)	
<i>FIGURE 100: ARCHITECTURE AS MEDIATOR.....</i>	98
(By Author: September, 2011)	
<i>FIGURE 99: LIVING BUILDING CONNECTED WITH ECOSYSTEM.....</i>	98
(By Author: September, 2011)	
<i>FIGURE 101: FACTORS USED TO CONNECT URBAN EDGES WITH THE RIVER.....</i>	99
(By Author: September, 2011)	
<i>FIGURE 102: SITE DEVELOPMENT DIAGRAM.....</i>	100
(By Author: September, 2011)	
<i>FIGURE 104: 3D VIEW OF PROPOSED SITE CONDITION.....</i>	101
(By Author: September, 2011)	
<i>FIGURE 103: CURRENT AND PROPOSED SITE EDGE CONDITIONS.....</i>	101
(By Author: September, 2011)	
<i>FIGURE 107: CONCEPT SKETCH SHOWING BUILDING CONNECT TO RIVER EDGE.....</i>	102
(By Author: October, 2011)	
<i>FIGURE 106: SKETCH CONNECTION BETWEEN EDGES AND BUILDING.....</i>	102
(By Author: September, 2011)	
<i>FIGURE 105: SITE EXPLORATION CONCEPT MODELS.....</i>	102
(By Author: August, 2011)	
<i>FIGURE 109: PERSPECTIVE SHOWING BUILDING SHAPE RESPOND TO RIVER EDGE.....</i>	103
(By Author: October, 2011)	
<i>FIGURE 108: PERSPECTIVE SHOWING JUNCTION BETWEEN BUILDING AND RIVER.....</i>	103
(By Author: October, 2011)	
<i>FIGURE 110: STRIP EXTRUSION CONCEPT.....</i>	103
(Adapted by Author: August, 2011) (VYZOVITI, Sophia, 2010)	
<i>FIGURE 111: NATURAL DAYLIGHT AS DESIGN INFORMANT.....</i>	104
(By Author: September, 2011)	
<i>FIGURE 113: BUILDING USE OF EARTH AS FUNCTIONAL SPACE.....</i>	104
(By Author: September, 2011)	
<i>FIGURE 114: DRAFT SECTION INDICATING DIRECT NATURAL DAYLIGHT IN GREENHOUSE AREAS.....</i>	104
(By Author: October, 2011)	
<i>FIGURE 112: NATURAL VENTILATION AS DESIGN INFORMANT.....</i>	104
(By Author: October, 2011)	
<i>FIGURE 115: BUILDING MASS STEPPED AND ANGLED TO ALLOW MAXIMUM DAYLIGHT INTO COURTYARD AND INTERNAL SPACES.....</i>	105
(By Author: October, 2011)	
<i>FIGURE 116: BUILDING MASS STEPPED TO RESPOND TO PROPOSED OPEN GREEN SPACE ON ADJACENT SITE.....</i>	105
(By Author: October, 2011)	
<i>FIGURE 117: VIEW FROM ADJACENT PARK LOCATION.....</i>	105
(By Author: October, 2011)	
<i>FIGURE 119: CONCEPT SECTION SHOWING GROUND FLOOR PROGRAM WITH PUBLIC INTERFACE.....</i>	106
(By Author: September, 2011)	
<i>FIGURE 120: DRAFT PLAN EXPLORING USE OF GROUND FLOOR PROGRAM TO ACTIVE SITE EDGES.....</i>	108
(By Author: October, 2011)	
<i>FIGURE 121: FUNCTIONAL DIAGRAM.....</i>	108
(By Author: September, 2011)	
<i>FIGURE 122: PERSPECTIVE VIEW FROM NELSON MANDELA DRIVE SHOWING PROPOSED RETAIL EDGE.....</i>	109
(By Author: October, 2011)	
<i>FIGURE 123: PERSPECTIVE VIEW FROM CHURCH STREET SHOWING PROPOSED RETAIL EDGE.....</i>	109
(By Author: October, 2011)	
<i>FIGURE 125: DIAGRAM SHOWING POSSIBLE LOCATIONS OF PUBLIC SPACE COMPONENT.....</i>	112
(By Author: September, 2011)	
<i>FIGURE 126: DIAGRAM SHOWING POSSIBLE LOCATIONS OF LANDSCAPE / AGRICULTURE COMPONENT.....</i>	113
(By Author: September, 2011)	
<i>FIGURE 127: DIAGRAM SHOWING DESIGN DEVELOPMENT AS RESPONSE TO DESIGN GENERATORS.....</i>	114



<i>FIGURE 129: BRACED STEEL FRAME WITH PINNED CONNECTIONS</i>	118
(CHING, Francis D K, 2008)	
<i>FIGURE 128: MAIN STRUCTURAL STEEL MEMBERS SPACED AT 6.5M INTERFALS</i>	118
(By Author: October, 2011)	
<i>FIGURE 130: SLAB ON METAL DEICKING</i>	123
(Adapted by Author: September, 2011) (UNKNOWN, Author, 2008)	
<i>FIGURE 131: SLAB ON METAL DEICKING EDGE DETAILS</i>	120
(Adapted by Author: September, 2011) (UNKNOWN, Author, 2008)	
<i>FIGURE 132: EXPLODED VIEW OF GREEN ROOF CONSTRUCTION</i>	120
(Safeguard Europe)	
<i>FIGURE 133: GREEN ROOF EDGE DETAIL</i>	121
(Hydrotech)	
<i>FIGURE 135: CURTAIN WALL GLAZING CONNECTION DETAILS</i>	121
(StructuralGlass)	
<i>FIGURE 134: BASEMENT CONCRETE BEAM AND POST CONSTRUCTION</i>	122
(CHING, Francis D K, 2008)	
<i>FIGURE 136: LIVING WALL ASSEMBLY DRAWING</i>	121
(Adapted by Author: September, 2011) (UNKNOWN, Author, 2008)	
<i>FIGURE 137:LIVING WALL CONSTRUCTION DETAIL</i>	123
(Adapted by Author: September, 2011) (UNKNOWN, Author, 2008)	
<i>FIGURE 138: DEEP WATER CULTURE</i>	124
(Adapted by Author: September, 2011) (UNKNOWN, Author, 2008)	
<i>FIGURE 139: WICK SYSTEM</i>	125
(Adapted by Author: September, 2011) (UNKNOWN, Author, 2008)	
<i>FIGURE 140: EBB & FLOW SYSTEM</i>	125
(Adapted by Author: September, 2011) (UNKNOWN, Author, 2008)	
<i>FIGURE 141: DRIP SYSTEM</i>	126
(Adapted by Author: September, 2011) (UNKNOWN, Author, 2008)	
<i>FIGURE 142: NUTRIENT FILM TECHNIQUE</i>	127
(Adapted by Author: September, 2011) (UNKNOWN, Author, 2008)	
<i>FIGURE 143: AEROPONICS</i>	127
(Adapted by Author: September, 2011) (UNKNOWN, Author, 2008)	
<i>FIGURE 144: FUEL GENERATED BY BIOGAS REACTOR USED FOR POWER, HEATING AND COOLING SYSTEMS</i>	129
(DAVIS, Blake, 2011)	
<i>FIGURE 145: ANAEROBIC DIGESTER AS KEY COMPONENT TO A ZERO-WASTE SYSTEM</i>	129
(Adapted by Author: September, 2011) (DAVIS, Blake, 2011)	

List of Illustrations

<i>ILLUSTRATION 01: COVER PAGE</i>	i
<i>ILLUSTRATION 02: HAND HOLDING PLANT</i>	vii
<i>ILLUSTRATION 03: HUNGER IN THE DEVELOPING WORLD</i>	13
<i>ILLUSTRATION 04: PRETORIA CBD AS AN EXAMPLE OF AFRICAN URBANIZATION</i>	20
<i>ILLUSTRATION 05: THE FUTURE OF THE WORLD IN OUR HANDS</i>	31
<i>ILLUSTRATION 06: SOILLESS FARMING METHODS</i>	35

List of Tables

<i>TABLE 01: RESEARCH METHODOLOGY TABLE</i>	15
(By Author, 2011)	