

2.3.3	Tonner Canyon Road	2-15
2.3.3.1	Orange County Transportation Authority Master Plan of Arterial Highways...	2-16
2.3.3.2	City of Brea General Plan Circulation Element	2-16
2.3.3.3	1994 Evaluation of Landfill Access Road Alternatives.....	2-16
2.3.3.4	1997 Evaluation of Olinda Alpha Access Road Alternatives.....	2-17
2.3.3.5	Tonner Hills Planned Community (PC) Final EIR.....	2-17
2.3.3.6	Summary	2-19
3.0	EFFECTS FOUND NOT TO BE SIGNIFICANT	3-1
3.1	Overview	3-1
3.2	Land Use and Planning Impacts Found Not to be Significant.....	3-1
3.3	Agriculture Impacts Found Not to be Significant.....	3-1
3.4	Population Impacts Found Not to be Significant.....	3-1
3.5	Geology and Soils Impacts Found Not to be Significant.....	3-2
3.6	Hydrology and Water Quality Impacts Found Not to be Significant.....	3-2
3.7	Transportation and Circulation Impacts Found Not to be Significant.....	3-3
3.8	Air Quality Impacts Found Not to be Significant.....	3-4
3.9	Noise Impacts Found Not to be Significant	3-4
3.10	Biological Resources Impacts Found Not to be Significant	3-4
3.11	Light, Glare and Aesthetics Impacts Found Not to be Significant.....	3-5
3.12	Cultural and Scientific Resources Impacts Found Not to be Significant.....	3-5
3.13	Recreation Impacts Found Not to be Significant.....	3-6
3.14	Mineral Resources Impacts Found Not to be Significant	3-6
3.15	Hazards Impacts Found Not to be Significant.....	3-6
3.16	Public Services Impacts Found Not to be Significant	3-7
3.17	Utilities and Service Systems Impacts Found Not to be Significant.....	3-8
4.0	PROJECT DESCRIPTION	4-1
4.1	Project Location	4-1
4.2	Environmental Setting	4-1
4.3	History and Evolution of the Proposed Project	4-1
4.3.1	Regional Landfill Options for Orange County	4-1
4.3.1.1	Strategic Planning.....	4-1
4.3.1.2	Tonnage Projections for RELOOC.....	4-5
4.3.1.3	RELOOC Planning Process	4-6
4.4	Current Site Status	4-7
4.4.1	Operations.....	4-7
4.4.1.1	Fire Control	4-10
4.4.1.2	Leachate Control.....	4-10
4.4.1.3	Dust Control.....	4-12
4.4.1.4	Vector and Bird Control.....	4-12
4.4.1.5	Noise Control.....	4-12
4.4.1.6	Odor Control	4-12
4.4.1.7	Litter Control.....	4-12
4.4.2	Regulatory Controls.....	4-13
4.4.3	Capacity of Olinda Alpha Landfill.....	4-13
4.4.4	Existing Waste Diversion Programs	4-14
4.5	Project Description.....	4-14
4.5.1	Purpose of the Project	4-14
4.5.2	Project Modifications.....	4-15

4.5.3	Environmental Protection Elements.....	4-15
4.5.3.1	Groundwater Protection Systems.....	4-15
4.5.3.2	Air Quality Protection Systems.....	4-18
4.5.4	Project Phasing.....	4-20
4.5.5	Waste Composition.....	4-21
4.5.6	Other Project Features.....	4-22
4.5.7	Discretionary Approvals.....	4-22
4.6	Project Objectives.....	4-22
4.7	Related Projects.....	4-24
4.7.1	Waste Characterization Study.....	4-24
4.7.1.1	Waste Characterization Study of Three Active Landfills.....	4-24
4.7.2	Third Flare.....	4-25
5.0	EXISTING CONDITIONS, IMPACTS, MITIGATION MEASURES AND LEVEL OF SIGNIFICANCE AFTER MITIGATION.....	5.1-1
5.1	Land Use and Planning.....	5.1-1
5.1.1	Existing Conditions.....	5.1-1
5.1.1.1	Regional Setting.....	5.1-1
5.1.1.2	Local Setting.....	5.1-1
5.1.1.3	Surrounding Land Uses.....	5.1-1
5.1.1.4	Existing Land Uses.....	5.1-2
5.1.1.5	Relevant Plans and Policies.....	5.1-2
5.1.2	Thresholds of Significance.....	5.1-9
5.1.3	Methodology Related to Land Use and Planning.....	5.1-9
5.1.4	Potential Impacts.....	5.1-9
5.1.5	Mitigation Measures.....	5.1-10
5.1.6	Level of Significance After Mitigation.....	5.1-10
5.2	Geology and Soils.....	5.2-1
5.2.1	Existing Conditions.....	5.2-1
5.2.1.1	Site Geology.....	5.2-2
5.2.1.2	Site Stratigraphy.....	5.2-2
5.2.1.3	Structural Geology.....	5.2-4
5.2.1.4	Recent Slope Stability History.....	5.2-6
5.2.2	Thresholds of Significance.....	5.2-6
5.2.3	Methodology Related to Geology and Soils.....	5.2-7
5.2.3.1	General.....	5.2-7
5.2.3.2	Slope Stability of the Proposed Expansion.....	5.2-8
5.2.4	Potential Impacts.....	5.2-12
5.2.4.1	Material Resources.....	5.2-12
5.2.4.2	Slope Stability.....	5.2-12
5.2.4.3	Seismicity.....	5.2-12
5.2.5	Mitigation Measures.....	5.2-12
5.2.6	Level of Significance After Mitigation.....	5.2-13
5.3	Hydrogeology and Water Quality.....	5.3-1
5.3.1	Existing Conditions.....	5.3-1
5.3.1.1	Regional Hydrogeology.....	5.3-1
5.3.1.2	Local Hydrogeology.....	5.3-3
5.3.1.3	Groundwater Monitoring.....	5.3-3
5.3.1.4	Groundwater Quality.....	5.3-6
5.3.1.5	Site Corrective Action Program.....	5.3-6
5.3.2	Thresholds of Significance.....	5.3-6

5.3.3	Methodology Related to Hydrogeology and Water Quality	5.3-7
5.3.4	Potential Impacts	5.3-7
5.3.5	Mitigation Measures	5.3-8
5.3.6	Level of Significance After Mitigation	5.3-8
5.4	Surface Water Hydrology	5.4-1
5.4.1	Existing Conditions	5.4-1
5.4.2	Thresholds of Significance	5.4-5
5.4.3	Methodology Related to Surface Water Hydrology	5.4-5
5.4.4	Potential Impacts	5.4-6
5.4.4.1	Surface Water Flows	5.4-6
5.4.4.2	Erosion and Soil Loss	5.4-7
5.4.5	Mitigation Measures	5.4-7
5.4.6	Level of Significance After Mitigation	5.4-9
5.5	Transportation and Circulation	5.5-1
5.5.1	Existing Conditions	5.5-1
5.5.1.1	General Characteristics of the Existing Landfill	5.5-1
5.5.1.2	Current Level of Traffic Generated by the Existing Landfill	5.5-1
5.5.1.3	Level of Service	5.5-4
5.5.1.4	Traffic Study Area	5.5-4
5.5.1.5	Existing Circulation System	5.5-4
5.5.1.6	Existing Traffic Volumes	5.5-7
5.5.1.7	Existing Peak Hour Turning Movements	5.5-9
5.5.1.8	Existing Intersection Levels of Service	5.5-9
5.5.2	Thresholds of Significance	5.5-12
5.5.3	Methodology Related to Transportation and Circulation	5.5-12
5.5.3.1	Regulatory Framework	5.5-12
5.5.3.2	Signalized Intersections	5.5-13
5.5.3.3	Project Trip Distribution	5.5-13
5.5.3.4	Project Trip Generation	5.5-15
5.5.3.5	Daily Trip Generation	5.5-15
5.5.3.6	AM Peak Hour Trip Generation	5.5-17
5.5.4	Potential Impacts	5.5-17
5.5.4.1	General Project Understanding	5.5-17
5.5.4.2	Assessment of Impacts	5.5-19
5.5.4.3	Level of Service Analysis Without the Project	5.5-20
5.5.4.4	Level of Service With the Project	5.5-21
5.5.4.5	Other Traffic Issues	5.5-23
5.5.5	Mitigation Measures	5.5-28
5.5.6	Level of Significance After Mitigation	5.5-29
5.6	Air Quality	5.6-1
5.6.1	Existing Conditions	5.6-1
5.6.1.1	Meteorology	5.6-1
5.6.1.2	Air Pollution Constituents	5.6-1
5.6.1.3	Existing Air Quality	5.6-6
5.6.1.4	Existing On-Site Dust Control	5.6-7
5.6.2	Thresholds of Significance	5.6-7
5.6.2.1	Regulatory Setting	5.6-7
5.6.2.2	CEQA Thresholds	5.6-13
5.6.3	Methodology Related to Air Quality	5.6-15
5.6.4	Potential Impacts	5.6-16
5.6.4.1	Short Term Impacts	5.6-16
5.6.4.2	Long Term Impacts	5.6-18

5.6.5	Mitigation Measures	5.6-26
5.6.5.1	Short Term Impacts	5.6-26
5.6.5.2	Long Term Impacts	5.6-27
5.6.6	Level of Significance After Mitigation	5.6-27
5.7	Noise	5.7-1
5.7.1	Existing Conditions	5.7-1
5.7.1.1	Noise Descriptors	5.7-1
5.7.1.2	Existing Noise Levels	5.7-7
5.7.1.3	Existing Vehicular Traffic Noise	5.7-11
5.7.2	Thresholds of Significance	5.7-12
5.7.2.1	County of Orange	5.7-13
5.7.2.2	City of Brea	5.7-14
5.7.2.3	California Department of Transportation	5.7-14
5.7.2.4	Vibration Impact Criteria	5.7-14
5.7.3	Methodology Related to Noise and Vibration	5.7-14
5.7.4	Potential Impacts	5.7-15
5.7.4.1	Short Term Construction Related Impacts	5.7-15
5.7.4.2	Long Term On-Site Stationary Noise Impacts	5.7-17
5.7.4.3	Long Term Traffic Noise Impacts	5.7-18
5.7.4.4	Vibration Impacts	5.7-22
5.7.5	Mitigation Measures	5.7-23
5.7.5.1	Construction Impacts	5.7-23
5.7.5.2	Traffic Noise Impacts	5.7-24
5.7.5.3	Vibration Impacts	5.7-24
5.7.6	Level of Significance After Mitigation	5.7-24
5.8	Aesthetics	5.8-1
5.8.1	Existing Conditions	5.8-1
5.8.1.1	Existing Views	5.8-1
5.8.1.2	View 1	5.8-4
5.8.1.3	View 2	5.8-6
5.8.1.4	Scenic Highways, View Points and Resources	5.8-6
5.8.1.5	Existing Light and Glare	5.8-6
5.8.2	Thresholds of Significance	5.8-6
5.8.3	Methodology Related to Aesthetics	5.8-7
5.8.4	Potential Impacts	5.8-7
5.8.4.1	View Impacts	5.8-7
5.8.4.2	Visual Simulations 1A and 1B from the Park North of Carbon Canyon Road	5.8-10
5.8.4.3	Visual Simulations 2A and 2B from Carbon Canyon Regional Park	5.8-10
5.8.4.4	Views from Other Locations	5.8-11
5.8.4.5	Interim View Impacts Prior to Landfill Closure	5.8-12
5.8.4.6	Impacts to Scenic Highways, View Points and Resources	5.8-12
5.8.4.7	Light and Glare Impacts	5.8-13
5.8.5	Mitigation Measures	5.8-13
5.8.6	Level of Significance After Mitigation	5.8-13
5.9	Cultural and Scientific Resources	5.9-1
5.9.1	Existing Conditions	5.9-1
5.9.1.1	Cultural Resources	5.9-1
5.9.1.2	Paleontological Resources	5.9-6
5.9.2	Thresholds of Significance	5.9-8
5.9.3	Methodology Related to Cultural and Scientific Resources	5.9-9
5.9.4	Potential Impacts	5.9-10

5.9.5	Mitigation Measures	5.9-10
5.9.6	Level of Significance After Mitigation	5.9-11
5.10	Hazards	5.10-1
5.10.1	Existing Conditions	5.10-1
5.10.2	Thresholds of Significance	5.10-2
5.10.3	Methodology Related to Hazards	5.10-2
5.10.4	Potential Impacts	5.10-3
5.10.4.1	Use, Disposal or Transport of Hazardous Materials	5.10-3
5.10.4.2	Potential Accidental Release of Hazardous Materials	5.10-3
5.10.4.3	Impacts to the Public or the Environment	5.10-4
5.10.4.4	Impacts Related to Safety Hazards	5.10-4
5.10.5	Mitigation Measures	5.10-5
5.10.6	Level of Significance After Mitigation	5.10-5
5.11	Public Services	5.11-1
5.11.1	Existing Conditions	5.11-1
5.11.1.1	Fire Protection and Emergency Services	5.11-1
5.11.1.2	Recreational Opportunities	5.11-2
5.11.1.3	Regional Biking, Riding and Hiking Trails	5.11-4
5.11.2	Thresholds of Significance	5.11-5
5.11.3	Methodology Related to Public Services	5.11-5
5.11.4	Potential Impacts	5.11-7
5.11.4.1	Fire Protection and Emergency Services	5.11-7
5.11.4.2	Recreational Opportunities	5.11-7
5.11.4.3	Regional Biking, Riding and Hiking Trails	5.11-8
5.11.5	Mitigation Measures	5.11-8
5.11.6	Level of Significance After Mitigation	5.11-8
5.12	Biological Resources	5.12-1
5.12.1	Existing Conditions	5.12-1
5.12.1.1	Plant Communities	5.12-1
5.12.1.2	Wildlife Species	5.12-4
5.12.1.3	Wildlife Corridors	5.12-5
5.12.1.4	Special Interest Habitats/Species	5.12-5
5.12.2	Thresholds of Significance	5.12-8
5.12.3	Methodology Related to Biological Resources	5.12-9
5.12.4	Potential Impacts	5.12-9
5.12.4.1	Impacts on Plant Communities	5.12-9
5.12.4.2	Impacts on Special Interest Species	5.12-10
5.12.4.3	Impacts to Wildlife Corridors	5.12-10
5.12.5	Mitigation Measures	5.12-12
5.12.6	Level of Significance After Mitigation	5.12-12
6.0	ALTERNATIVES TO THE PROPOSED PROJECT	6-1
6.1	Overview	6-1
6.2	Project Objectives	6-1
6.3	Alternative 1 - No Project Alternative	6-2
6.3.1	Description of Alternative 1	6-2
6.3.2	Impacts of the No Project Alternative	6-2
6.3.2.1	Land Use and Planning	6-2
6.3.2.2	Geology and Soils	6-3
6.3.2.3	Hydrogeology and Water Quality	6-3
6.3.2.4	Surface Water Hydrology	6-3

	6.3.2.5	Transportation and Circulation	6-3
	6.3.2.6	Air Quality	6-4
	6.3.2.7	Noise.....	6-4
	6.3.2.8	Aesthetics	6-4
	6.3.2.9	Cultural and Scientific Resources	6-5
	6.3.2.10	Hazards.....	6-5
	6.3.2.11	Public Services.....	6-5
	6.3.2.12	Biological Resources	6-5
	6.3.3	Summary of the No Project Alternative.....	6-5
6.4		Alternative 2 - Two Landfill System in 2013 (Prima Deschecha Daily Tonnage Increase).....	6-6
	6.4.1	Description of Alternative 2	6-6
	6.4.2	Impacts of Alternative 2.....	6-7
	6.4.2.1	Land Use and Planning.....	6-7
	6.4.2.2	Geology and Soils.....	6-7
	6.4.2.3	Hydrogeology and Water Quality.....	6-7
	6.4.2.4	Surface Water Hydrology.....	6-8
	6.4.2.5	Transportation and Circulation	6-8
	6.4.2.6	Air Quality	6-8
	6.4.2.7	Noise.....	6-8
	6.4.2.8	Aesthetics	6-9
	6.4.2.9	Cultural and Scientific Resources	6-9
	6.4.2.10	Hazards.....	6-9
	6.4.2.11	Public Services.....	6-9
	6.4.2.12	Biological Resources	6-10
	6.4.3	Summary of Alternative 2	6-10
6.5		Alternative 3 - Two Landfill System in 2013 (Frank R. Bowerman Daily Tonnage Increase)	6-10
	6.5.1	Description of Alternative 3	6-10
	6.5.2	Impacts of Alternative 3.....	6-11
	6.5.2.1	Land Use and Planning.....	6-11
	6.5.2.2	Geology and Soils.....	6-11
	6.5.2.3	Hydrogeology and Water Quality.....	6-11
	6.5.2.4	Surface Water Hydrology.....	6-12
	6.5.2.5	Transportation and Circulation	6-12
	6.5.2.6	Air Quality	6-12
	6.5.2.7	Noise.....	6-12
	6.5.2.8	Aesthetics	6-13
	6.5.2.9	Cultural and Scientific Resources	6-13
	6.5.2.10	Hazards.....	6-13
	6.5.2.11	Public Services.....	6-13
	6.5.2.12	Biological Resources	6-14
	6.5.3	Summary of Alternative 3	6-14
6.6		Alternatives Considered but Rejected.....	6-14
	6.6.1	Early Cessation of MSW Importation from Outside the County.....	6-14
	6.6.2	RELOOC Feasibility Study Alternatives.....	6-15
	6.6.2.1	Export.....	6-15
	6.6.2.2	Off-Site Alternative: New Landfill in Gypsum Canyon.....	6-19
	6.6.2.3	Alternative Technology Assessment	6-20
	6.6.3	No Build Alternative – Park Implementation	6-21
6.7		Environmentally Superior Alternative	6-22
6.8		Ability of the Alternative to Meet the Project Objectives.....	6-23

7.0	GROWTH INDUCING IMPACTS	7-1
7.1	Definition of Growth Inducing Impacts.....	7-1
7.2	Growth Inducing Impacts Related to the Proposed Project	7-1
8.0	CUMULATIVE IMPACTS	8-1
8.1	Definition of Cumulative Impacts.....	8-1
8.2	Cumulative Projects.....	8-2
8.3	Cumulative Impacts Analysis.....	8-2
8.3.1	Cumulative Impacts Related to Land Use and Planning.....	8-2
8.3.2	Cumulative Impacts Related to Geology and Soils.....	8-2
8.3.3	Cumulative Impacts Related to Hydrogeology and Water Quality	8-3
8.3.4	Cumulative Impacts Related to Surface Water Hydrology.....	8-3
8.3.5	Cumulative Impacts Related to Transportation and Circulation.....	8-3
8.3.6	Cumulative Impacts Related to Air Quality.....	8-3
8.3.7	Cumulative Impacts Related to Noise.....	8-4
8.3.8	Cumulative Impacts Related to Aesthetics	8-4
8.3.9	Cumulative Impacts Related to Cultural and Scientific Resources	8-4
8.3.10	Cumulative Impacts Related to Hazards.....	8-5
8.3.11	Cumulative Impacts Related to Public Services.....	8-5
8.3.12	Cumulative Impacts Related to Biological Resources	8-5
9.0	IRRETRIEVABLE AND IRREVERSIBLE COMMITMENT OF RESOURCES	9-1
10.0	UNAVOIDABLE ADVERSE IMPACTS	10-1
11.0	INVENTORY OF MITIGATION MEASURES	11-1
11.1	Mitigation Measures for Land Use and Planning.....	11-1
11.2	Mitigation Measures for Geology and Soils.....	11-1
11.3	Mitigation Measures for Hydrogeology and Water Quality	11-1
11.4	Mitigation Measures for Surface Water Hydrology.....	11-2
11.5	Mitigation Measures for Transportation and Circulation.....	11-2
11.6	Mitigation Measures for Air Quality.....	11-3
11.7	Mitigation Measures for Noise.....	11-4
11.8	Mitigation Measures for Aesthetics	11-5
11.9	Mitigation Measures for Cultural and Scientific Resources	11-5
11.10	Mitigation Measures for Hazards.....	11-6
11.11	Mitigation Measures for Public Services.....	11-6
11.12	Mitigation Measures for Biological Resources	11-6
12.0	LIST OF PREPARERS	12-1
12.1	County of Orange.....	12-1
12.2	P&D Consultants, Inc.	12-1
12.3	Bryan A. Stirrat & Associates	12-1
12.4	LSA Associates, Inc.....	12-1
12.5	Geologics Associates	12-1
13.0	REFERENCES.....	13-1

TECHNICAL APPENDICES

- A. Initial Study/Environmental Checklist and Notice of Preparation (NOP)
- B. NOP Distribution List
- C. Comments Letters Received on the NOP
- D. Written Comments/Verbal Comments From the Scoping Meetings
- E. Memorandum of Understanding/City of Brea
- F. Traffic Study
- G. Air Quality Analysis
- H. Noise Impact Analysis
- I. Cultural Resources Assessment for the Olinda Alpha Landfill Expansion
- J. Paleontological Resource Assessment for the Olinda Alpha Landfill Expansion
- K. Hydrology Study Olinda Alpha Landfill RELOOC 1415 Maximum Elevation
- L. Slope Stability Evaluation of the Proposed Lateral/Vertical Expansion

LIST OF FIGURES

4.1-1	Regional Location Map	4-2
4.3-1	RELOOC Strategic Plan Structure Overview	4-3
4.4-1	Olinda Alpha Landfill Location Map.....	4-8
4.4-2	Typical Landfill Operations.....	4-11
4.5-1	Final Grading Plan (Permitted – 1996)	4-16
4.5-2	Olinda Alpha Landfill Proposed Horizontal and Vertical Expansion	4-17
4.5-3	Typical Landfill Drainage and Leachate Controls	4-19
5.1-1	County of Orange Land Use Designations	5.1-3
5.2-1	Site Geology	5.2-5
5.2-2	South-Facing Slope: Potential Failures Daylighting at Permit Grade	5.2-9
5.2-3	South-Facing Slope: Potential Failures Daylighting at Proposed Grade.....	5.2-10
5.2-4	Potential Failures in Northeast-Facing Slope	5.2-11
5.3-1	Regional Hydrogeology.....	5.3-2
5.3-2	Site Hydrogeology	5.3-4
5.4-1	100 Year Pre-Landfill Condition Hydrology Map	5.4-2
5.4-2	Storm Water Drainage & Erosion Control System – 2003	5.4-3
5.4-3	100 Year Developed Condition (with Final Drainage Control Features) Hydrology Plan	5.4-4
5.4-4	100 Year Developed Condition (with Final Drainage Control Features) Soil Loss Plan.....	5.4-8
5.5-1	Study Area – Study Intersections	5.5-2
5.5-2	Traffic Controls – Lane Configuration	5.5-5
5.5-3	Average Daily Traffic	5.5-8
5.5-4	Existing 2004 AM Peak Hour Turning Movement Counts	5.5-10
5.5-5	Existing 2004 AM Mid Morning Peak Hour Turning Movement Counts.....	5.5-11
5.5-6	Anticipated Project Traffic Distribution	5.5-14
5.5-7	Future Daily Project Traffic.....	5.5-16
5.5-8	Future Project Traffic AM Peak Hour	5.5-18
5.5-9	Future AM Peak Hour Volumes Without Project Traffic.....	5.5-22
5.5-10	Future AM Peak Hour Volumes With Project Traffic	5.5-24
5.5-11	2021 Projected Total Daily Traffic With Project	5.5-25
5.5-12	Daily Landfill Traffic Compared to Total Daily Projected Traffic 2021	5.5-26
5.7-1A	Noise Monitoring Locations.....	5.7-8
5.7-1B	Noise Monitoring Locations.....	5.7-9
5.7-1C	Noise Monitoring Locations.....	5.7-10
5.8-1	Landfill and Surrounding Area.....	5.8-2
5.8-2	View Points	5.8-3
5.8-3	Existing Views	5.8-5
5.8-4	Visual Simulations	5.8-8
5.11-1	Recreational Facilities in the Vicinity of Olinda Alpha Landfill.....	5.11-3
5.11-2	Riding and Hiking Trails in the Vicinity of the Olinda Alpha Landfill	5.11-6
5.12-1	Plant Communities in the 33-Acre Expansion Area	5.12-2
6-1	Out-of-County Landfill Sites for Truck Export.....	6-16
6-2	Out-of-County Landfill Sites for Rail Haul Export.....	6-18

LIST OF TABLES

1-1	Summary of Impacts, Mitigation Measures and Level of Significance After Mitigation	1-7
2-1	List of Potential Responsible Agencies.....	2-3
2-2	Summary of Comments in Response to the NOP	2-6
2-3	Summary of Written Comments and Questions - January 22, 2004 Scoping Meeting	2-11
2-4	Summary of Verbal Comments and Questions - January 22, 2004 Scoping Meeting	2-12
2-5	Summary of Verbal Comments and Questions - September 18, 2002 Scoping Meeting	2-14
4-1	List of Potential Responsible Agencies.....	4-23
5.2-1	Material Properties	5.2-8
5.3-1	Olinda Alpha Landfill Monitoring System Wells	5.3-5
5.4-1	Olinda Alpha Landfill Expansion Stormwater Run-off and Basin Discharges	5.4-7
5.5-1	Vehicular Trips To/From Olinda Alpha Landfill on an Average Day	5.5-3
5.5-2	Existing Signalized Intersection Levels of Service	5.5-12
5.5-3	Level of Service Criteria for Signalized Intersections.....	5.5-13
5.5-4	Future 2021 Signalized Intersection LOS Without the Project.....	5.5-21
5.5-5	2021 Signalized Intersection LOS With the Project.....	5.5-23
5.6-1	State and Federal Ambient Air Quality Standards	5.6-2
5.6-2	Health Effects Summary of the Major Criteria Air Pollutants.....	5.6-4
5.6-3	Criteria Pollutants Attainment Statue in the Basin	5.6-5
5.6-4	Ambient Air Quality at the La Habra, Anaheim and Costa Mesa Air Monitoring Stations	5.6-8
5.6-5	Existing Vehicular Traffic Intersection CO Concentrations	5.6-10
5.6-6	Peak Day Construction Emissions	5.6-18
5.6-7	Olinda Alpha Landfill List of Operating Equipment	5.6-19
5.6-8	Landfill Operations Emissions	5.6-20
5.6-9	Future Without and With Project Vehicular Traffic Intersection CO Concentrations	5.6-25
5.7-1	Definitions of Acoustical Terms	5.7-4
5.7-2	Common Sound Levels and their Noise Sources	5.7-5
5.7-3	Land Use Compatibility for Exterior Community Noise.....	5.7-6
5.7-4	Human Response to Different Levels of Groundborne Noise and Vibration	5.7-7
5.7-5	Ambient Noise Levels on and Adjacent to Olinda Alpha Landfill in DBA	5.7-11
5.7-6	Existing Traffic Noise Levels.....	5.7-12
5.7-7	Ground-Borne Vibration and Noise Impact Criteria.....	5.7-15
5.7-8	Typical Construction Equipment Noise Levels.....	5.7-17
5.7-9	Future Baseline (No Project) Traffic Noise Levels	5.7-19
5.7-10	Future With Project Traffic Noise Levels.....	5.7-20
6-1	Comparison of the Environmental Impacts of all Project Alternatives.....	6-22
6-2	Ability of the Alternatives to Meet the Project Objectives	6-23

