

City of Lake Forest Sports Park and Recreation Center

Draft Environmental Impact Report

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Prepared by:
ICF International



DRAFT ENVIRONMENTAL IMPACT REPORT

CITY OF LAKE FOREST SPORTS PARK AND RECREATION CENTER

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Contents

| | |
|---|------|
| List of Tables | x |
| List of Figures..... | xiv |
| List of Acronyms and Abbreviations..... | xvii |

| | Page |
|--|-------------|
| Executive Summary | ES-1 |
| Introduction..... | ES-1 |
| Purpose of the EIR | ES-1 |
| Project Description and Location | ES-1 |
| Project Objectives..... | ES-4 |
| Summary of Environmental Impacts | ES-4 |
| Impacts Not Considered in This EIR | ES-5 |
| Impacts of the Proposed Project | ES-5 |
| Alternatives to the Proposed Project | ES-7 |
| Areas of Controversy | ES-41 |
| Issues to Be Resolved | ES-41 |
| Chapter 1 Introduction and Overview..... | 1-1 |
| Purpose of the EIR | 1-1 |
| CEQA Authority and Process | 1-1 |
| Public and Agency Involvement | 1-2 |
| Scope of Analysis..... | 1-3 |
| Required EIR Contents..... | 1-4 |
| Document Organization | 1-5 |
| Chapter 2 Project Description..... | 2-1 |
| Introduction and Overview | 2-1 |
| Project Background | 2-1 |
| Project Area and Existing Conditions | 2-2 |
| Regional Location..... | 2-2 |
| Local Vicinity | 2-2 |
| Existing Site Characteristics | 2-3 |
| Surrounding Land Uses | 2-3 |
| General Plan and Zoning..... | 2-3 |
| Proposed Project..... | 2-4 |

| | |
|--|--------------|
| Project Objectives | 2-4 |
| Description of the Proposed Project..... | 2-4 |
| Discretionary Actions and Approvals..... | 2-8 |
| Incorporation by Reference..... | 2-9 |
| Chapter 3 Environmental Impact Analysis | 3-1 |
| Introduction..... | 3-1 |
| Environmental Elements Analyzed in the Draft EIR | 3-1 |
| Organization of Environmental Impact Analysis | 3-2 |
| Section 3.1 Aesthetics | 3.1-1 |
| Introduction..... | 3.1-1 |
| Concepts and Terminology | 3.1-1 |
| Environmental Setting..... | 3.1-3 |
| Visual Character of the Project Region | 3.1-3 |
| Visual Character of the Project Site | 3.1-4 |
| Existing Viewer Groups | 3.1-5 |
| Lighting..... | 3.1-6 |
| Regulatory Setting..... | 3.1-6 |
| State | 3.1-6 |
| Local | 3.1-7 |
| Project Impacts and Mitigation Measures | 3.1-8 |
| Methodology..... | 3.1-8 |
| Thresholds of Significance | 3.1-11 |
| Impacts and Mitigation Measures..... | 3.1-11 |
| Printed References | 3.1-31 |
| Personal Communications..... | 3.1-31 |
| Section 3.2 Air Quality | 3.2-1 |
| Introduction..... | 3.2-1 |
| Environmental Setting..... | 3.2-1 |
| Regional Context..... | 3.2-1 |
| Local Area Conditions | 3.2-2 |
| Regulatory Setting | 3.2-4 |
| Federal | 3.2-4 |
| State | 3.2-6 |
| Local | 3.2-6 |
| Project Impacts and Mitigation Measures | 3.2-7 |
| Methodology..... | 3.2-7 |
| Thresholds of Significance | 3.2-8 |

| | |
|--|--------------|
| Impacts and Mitigation Measures..... | 3.2-10 |
| References..... | 3.2-21 |
| Section 3.3 Biological Resources | 3.3-1 |
| Environmental Setting..... | 3.3-1 |
| Regulatory Setting..... | 3.3-2 |
| State of California Fish and Game Code, Section 1602..... | 3.3-2 |
| Federal Clean Water Act, Section 404 | 3.3-2 |
| Federal Clean Water Act, Section 401 | 3.3-3 |
| Federal Endangered Species Act, Section 10 and Section 7 | 3.3-3 |
| Migratory Bird Treaty Act of 1918 | 3.3-3 |
| Orange County Natural Community Conservation Plan, Central Subregion | 3.3-4 |
| City of Lake Forest Regulated Trees..... | 3.3-6 |
| Affected Environment | 3.3-6 |
| Plant Communities..... | 3.3-6 |
| Scrub Communities..... | 3.3-6 |
| Riparian Communities..... | 3.3-8 |
| Disturbed/Ornamental Communities | 3.3-9 |
| Other Areas..... | 3.3-9 |
| Existing Jurisdictional Waters..... | 3.3-9 |
| Wildlife | 3.3-10 |
| Invertebrates..... | 3.3-10 |
| Fish..... | 3.3-10 |
| Amphibians | 3.3-11 |
| Reptiles | 3.3-11 |
| Birds | 3.3-11 |
| Mammals | 3.3-11 |
| Wildlife Corridors | 3.3-12 |
| Critical Habitat..... | 3.3-13 |
| Sensitive Biological Resources..... | 3.3-13 |
| Federal Protection and Classifications..... | 3.3-13 |
| State of California Protection and Classifications | 3.3-14 |
| California Native Plant Society..... | 3.3-14 |
| Sensitive Plant Communities | 3.3-15 |
| Sensitive Plant Species..... | 3.3-15 |
| Sensitive Wildlife Species..... | 3.3-27 |
| Project Impacts and Mitigation Measures | 3.3-40 |
| Methodology..... | 3.3-40 |

| | |
|---|--------------|
| Thresholds of Significance | 3.3-40 |
| Impacts and Mitigation Measures | 3.3-41 |
| Cumulative Impacts | 3.3-54 |
| References | 3.3-56 |
| Personal Communication | 3.3-58 |
| Section 3.4 Cultural Resources..... | 3.4-1 |
| Introduction..... | 3.4-1 |
| Environmental Setting..... | 3.4-1 |
| Prehistoric Context | 3.4-1 |
| Ethnographic Context | 3.4-3 |
| Historic Context | 3.4-5 |
| Existing Cultural Resources | 3.4-8 |
| Regulatory Setting | 3.4-13 |
| Federal | 3.4-13 |
| State | 3.4-13 |
| Project Impacts and Mitigation Measures | 3.4-16 |
| Methodology..... | 3.4-16 |
| Thresholds of Significance | 3.4-16 |
| Impacts and Mitigation Measures..... | 3.4-17 |
| References | 3.4-20 |
| Section 3.5 Geology and Soils | 3.5-1 |
| Introduction..... | 3.5-1 |
| Environmental Setting..... | 3.5-1 |
| Regional Geology | 3.5-1 |
| Topography..... | 3.5-2 |
| Site Geology | 3.5-2 |
| Groundwater..... | 3.5-3 |
| Soils | 3.5-3 |
| Geologic Hazards | 3.5-5 |
| Regulatory Setting | 3.5-7 |
| State..... | 3.5-7 |
| Regional | 3.5-8 |
| Local | 3.5-9 |
| Project Impacts and Mitigation Measures | 3.5-10 |
| Methodology..... | 3.5-10 |
| Thresholds of Significance | 3.5-11 |
| Impacts and Mitigation Measures..... | 3.5-11 |

| | |
|--|--------------|
| References..... | 3.5-18 |
| Printed References..... | 3.5-18 |
| Section 3.6 Greenhouse Gases..... | 3.6-1 |
| Introduction..... | 3.6-1 |
| Environmental Setting..... | 3.6-1 |
| State Greenhouse Gas Emissions..... | 3.6-1 |
| Description of Relevant Pollutants | 3.6-2 |
| Regulatory Setting | 3.6-3 |
| Federal | 3.6-3 |
| State..... | 3.6-4 |
| Local..... | 3.6-5 |
| Project Impacts and Mitigation Measures | 3.6-5 |
| Methodology..... | 3.6-5 |
| Thresholds of Significance | 3.6-5 |
| Impacts and Mitigation Measures | 3.6-6 |
| References..... | 3.6-11 |
| Section 3.7 Hazards and Hazardous Materials..... | 3.7-1 |
| Introduction..... | 3.7-1 |
| Environmental Setting..... | 3.7-1 |
| Existing Hazardous Materials Sites | 3.7-2 |
| Regulatory Setting | 3.7-5 |
| Federal | 3.7-6 |
| State..... | 3.7-6 |
| Local..... | 3.7-8 |
| Project Impacts and Mitigation Measures | 3.7-9 |
| Methodology..... | 3.7-9 |
| Thresholds of Significance | 3.7-9 |
| Impacts and Mitigation Measures..... | 3.7-10 |
| References..... | 3.7-12 |
| Printed References..... | 3.7-12 |
| Section 3.8 Hydrology and Water Quality | 3.8-1 |
| Introduction..... | 3.8-1 |
| Environmental Setting..... | 3.8-1 |
| Regional Hydrology and Water Quality | 3.8-1 |
| Groundwater..... | 3.8-5 |
| Local Hydrology and Water Quality | 3.8-6 |
| Soils | 3.8-8 |

| | |
|---|---------------|
| Regulatory Setting | 3.8-8 |
| Federal | 3.8-8 |
| State | 3.8-10 |
| Regional | 3.8-12 |
| City of Lake Forest..... | 3.8-13 |
| Project Impacts and Mitigation Measures | 3.8-16 |
| Methodology..... | 3.8-16 |
| Thresholds of Significance | 3.8-16 |
| Impacts and Mitigation Measures..... | 3.8-17 |
| Surface Water Hydrology..... | 3.8-17 |
| Water Quality..... | 3.8-23 |
| Groundwater Impacts and Mitigation | 3.8-34 |
| References | 3.8-36 |
| Section 3.9 Land Use and Planning | 3.9-1 |
| Introduction..... | 3.9-1 |
| Environmental Setting..... | 3.9-1 |
| Regulatory Setting | 3.9-2 |
| Federal and State | 3.9-2 |
| Regional | 3.9-2 |
| Local | 3.9-3 |
| Project Impacts and Mitigation Measures | 3.9-7 |
| Methodology..... | 3.9-7 |
| Thresholds of Significance | 3.9-7 |
| Impacts and Mitigation Measures..... | 3.9-8 |
| References | 3.9-11 |
| Printed References..... | 3.9-11 |
| Section 3.10 Mineral Resources..... | 3.10-1 |
| Introduction..... | 3.10-1 |
| Environmental Setting..... | 3.10-1 |
| Regional | 3.10-1 |
| Local | 3.10-2 |
| Regulatory Setting | 3.10-3 |
| State..... | 3.10-3 |
| Local | 3.10-4 |
| Project Impacts and Mitigation Measures | 3.10-4 |
| Methodology..... | 3.10-4 |
| Thresholds of Significance | 3.10-5 |

| | |
|--|---------------|
| Impacts and Mitigation Measures..... | 3.10-5 |
| References..... | 3.10-6 |
| Printed References..... | 3.10-6 |
| Section 3.11 Noise..... | 3.11-1 |
| Introduction..... | 3.11-1 |
| Noise Terminology..... | 3.11-1 |
| Environmental Setting..... | 3.11-3 |
| Existing Land Uses..... | 3.11-3 |
| Ambient Noise Levels..... | 3.11-4 |
| Regulatory Setting..... | 3.11-5 |
| Federal..... | 3.11-5 |
| State..... | 3.11-5 |
| Local..... | 3.11-5 |
| Project Impacts and Mitigation Measures..... | 3.11-6 |
| Methodology..... | 3.11-6 |
| Thresholds of Significance..... | 3.11-7 |
| Impacts and Mitigation Measures..... | 3.11-7 |
| Traffic Noise..... | 3.11-7 |
| Stationary Noise..... | 3.11-10 |
| References..... | 3.11-16 |
| Section 3.12 Paleontological Resources..... | 3.12-1 |
| Introduction..... | 3.12-1 |
| Environmental Setting..... | 3.12-1 |
| Axial-Channel Deposits..... | 3.12-1 |
| Oso Member of the Capistrano Formation..... | 3.12-2 |
| Subsurface Geology..... | 3.12-2 |
| Sensitive Paleontological Resources and Assessment Criteria..... | 3.12-3 |
| Regulatory Setting..... | 3.12-4 |
| State..... | 3.12-4 |
| Local..... | 3.12-4 |
| Project Impacts and Mitigation Measures..... | 3.12-5 |
| Methodology..... | 3.12-5 |
| Thresholds of Significance..... | 3.12-6 |
| Impacts and Mitigation Measures..... | 3.12-6 |
| References..... | 3.12-8 |
| Printed References..... | 3.12-8 |

| | | |
|---|---------------------------------------|---------------|
| Section 3.13 | Public Services and Utilities | 3.13-1 |
| Introduction | | 3.13-1 |
| Environmental Setting | | 3.13-1 |
| Public Services | | 3.13-1 |
| Regulatory Setting | | 3.13-5 |
| Water Supply and Wastewater Treatment | | 3.13-5 |
| Public Services | | 3.13-6 |
| Project Impacts and Mitigation Measures | | 3.13-7 |
| Methodology | | 3.13-7 |
| Thresholds of Significance | | 3.13-7 |
| Impacts and Mitigation Measures | | 3.13-8 |
| References | | 3.13-12 |
| Printed References | | 3.13-12 |
| Personal Communications | | 3.13-13 |
| Section 3.14 | Transportation and Circulation | 3.14-1 |
| Introduction | | 3.14-1 |
| Environmental Setting | | 3.14-1 |
| Regional Roadway Network | | 3.14-1 |
| Local Roadway Network | | 3.14-2 |
| Existing Intersection Level of Service | | 3.14-3 |
| Existing Traffic Conditions | | 3.14-6 |
| Regulatory Setting | | 3.14-9 |
| Federal | | 3.14-9 |
| State | | 3.14-9 |
| Local | | 3.14-9 |
| Project Impacts and Mitigation Measures | | 3.14-14 |
| Methodology | | 3.14-14 |
| Thresholds of Significance | | 3.14-16 |
| Impacts and Mitigation Measures | | 3.14-17 |
| References | | 3.14-31 |
| Chapter 4 | Cumulative Impacts | 4-1 |
| Introduction | | 4-1 |
| Past, Present, and Reasonably Foreseeable Future Projects | | 4-1 |
| Cumulative Impact Analysis | | 4-7 |
| Aesthetics | | 4-7 |
| Air Quality | | 4-8 |
| Biological Resources | | 4-9 |

| | |
|---|------------|
| Cultural Resources | 4-11 |
| Geology and Soils | 4-11 |
| Greenhouse Gas Emissions | 4-12 |
| Hazards and Hazardous Materials | 4-12 |
| Hydrology and Water Quality | 4-12 |
| Land Use and Planning | 4-14 |
| Mineral Resources | 4-15 |
| Noise | 4-15 |
| Public Services and Utilities | 4-16 |
| Paleontological Resources | 4-17 |
| Transportation/Traffic | 4-17 |
| Chapter 5 Alternatives Analysis | 5-1 |
| Introduction and Overview | 5-1 |
| Alternatives Considered | 5-2 |
| Alternative 1—No Project Alternatives | 5-2 |
| Alternative 2—Sports Park Development on Glass Creek and Baker Ranch Properties; Elimination of Rados Property | 5-4 |
| Alternative 3— Sports Park Development on Glass Creek and Rados Properties; Elimination of Baker Ranch Property | 5-4 |
| Alternative 4—Sports Park Development on Glass Creek Property Only; Elimination of Rados and Baker Ranch Properties..... | 5-4 |
| Alternative 5—Sports Park Development on Rados and Expanded Baker Ranch Properties; Excludes Glass Creek Property | 5-5 |
| Alternative 6—Proposed Project Without Nighttime Field Lighting | 5-5 |
| Alternative 7 – Reconfiguration of Fields and Facilities..... | 5-5 |
| Alternatives Eliminated from Further Consideration | 5-6 |
| Alternative Site A (Shea/Baker Site) | 5-6 |
| Alternative Site B (Sites 1, 3, 4 of the OSA; Split Park) | 5-7 |
| Alternative Site C (Nakase) | 5-7 |
| Analysis of Alternatives Considered | 5-8 |
| Alternative 1a—No-Project/No-Build Alternative | 5-12 |
| Alternative 1b—No Project/Reasonably Foreseeable Development | 5-15 |
| Alternative 2—Sports Park Development on Glass Creek and Baker Ranch Properties; Elimination of Rados Property | 5-18 |
| Alternative 3— Sports Park Development on Glass Creek and Rados Properties; Elimination of Baker Ranch Property..... | 5-22 |
| Alternative 4—Sports Park Development on Glass Creek Property Only; Elimination of Baker Ranch and Rados Properties..... | 5-26 |

| | |
|---|------------|
| Alternative 5—Sports Park Development on Rados and Expanded Baker Ranch Properties; Excludes Glass Creek Property | 5-29 |
| Alternative 6—Proposed Project Without Nighttime Field Lighting | 5-33 |
| Alternative 7 – Reconfiguration of Fields and Facilities..... | 5-36 |
| Environmentally Superior Alternative | 5-41 |
| Chapter 6 Growth-Inducing Impacts | 6-1 |
| Introduction..... | 6-1 |
| Direct Growth-Inducing Impacts in the Surrounding Environment | 6-1 |
| Indirect Growth-Inducing Impacts in the Surrounding Environment..... | 6-1 |
| Chapter 7 Other CEQA Considerations..... | 7-1 |
| Introduction..... | 7-1 |
| Significant Environmental Effects..... | 7-1 |
| Significant and Unavoidable Environmental Effects | 7-1 |
| Aesthetics..... | 7-1 |
| Air Quality | 7-2 |
| Greenhouse Gases | 7-2 |
| Mineral Resources | 7-3 |
| Significant Irreversible Environmental Effects | 7-3 |
| Analysis of Significant Irreversible Changes..... | 7-3 |
| Chapter 8 List of Preparers | 8-1 |
| City of Lake Forest | 8-1 |
| ICF International..... | 8-1 |

| |
|--|
| Appendix A Notice of Preparation and Initial Study, Scoping Comments Received |
| Appendix B Air Quality Technical Appendix |
| Appendix C Floral and Faunal Compendium |
| Appendix D Cultural Resources Report (Confidential) |
| Appendix E Geotechnical Evaluation |
| Appendix F Statement of Reasons |
| Appendix G Traffic Study |

Tables

| | Page |
|--|--------|
| ES-1 Summary table | ES-9 |
| ES-2 Summary of Alternatives Considered | ES-38 |
| ES-3 Comparison of Alternatives (after Mitigation) | ES-39 |
| 1-1 Required EIR Contents | 1-4 |
| 2-1 Existing General Plan and Zoning for Project Site Parcels | 2-3 |
| 2-2 Proposed General Plan Amendment, Glass Creek Property..... | 2-6 |
| 3.1-1 Key Observation Points | 3.1-10 |
| 3.1-2 Comparison of Grading Scenarios for KOP A and KOP B | 3.1-16 |
| 3.1-3 Comparison of Grading Scenarios for KOP C, KOP D, and KOP E..... | 3.1-28 |
| 3.2-1 Air Quality Data from Mission Viejo Station (ARB 30002) and Costa Mesa Station (ARB 30195) | 3.2-3 |
| 3.2-2 Federal and State Ambient Air Quality Standards | 3.2-5 |
| 3.2-3 Federal and State Attainment Status for the South Coast Air Basin | 3.2-5 |
| 3.2-4 SCAQMD Emission Thresholds (lbs/day)..... | 3.2-9 |
| 3.2-5 SCAQMD Localized Emission Thresholds (lbs/day)..... | 3.2-9 |
| 3.2-6 Estimate of Construction Emissions for Grading Plan 1 (pounds per day) | 3.2-12 |
| 3.2-7 Estimate of Construction Emissions for Grading Plan 2 (pounds per day) | 3.2-12 |
| 3.2-8 Estimate of Operational Emissions (pounds per day)..... | 3.2-13 |
| 3.2-9 Estimate of Mitigated Construction Emissions for Grading Plan 1 (pounds per day) | 3.2-14 |
| 3.2-10 Estimate of Mitigated Construction Emissions for Grading Plan 2 (pounds per day) | 3.2-15 |
| 3.2-11 Estimate of Localized Construction Emissions for Grading Plan 1 (pounds per day) | 3.2-16 |
| 3.2-12 Estimate of Localized Construction Emissions for Grading Plan 2 (pounds per day) | 3.2-16 |
| 3.2-13 Project Year 2015—Local Area Carbon Monoxide Dispersion Analysis..... | 3.2-18 |
| 3.2-14 Estimate of Operation-Period Localized (Onsite) Emissions..... | 3.2-19 |
| 3.2-15 Estimate of Mitigated Localized Construction Emissions for Grading Plan 1 (pounds per day) | 3.2-19 |

| | | |
|--------|--|---------|
| 3.2-16 | Estimate of Mitigated Localized Construction Emissions for Grading Plan 2 (pounds per day) | 3.2-20 |
| 3.3-1 | Identified Species (Covered and Conditionally Covered) Authorized for Take by the NCCP/HCP | 3.3-4 |
| 3.3-2 | Existing Plant Communities | 3.3-6 |
| 3.3-3 | Sensitive Plant Species..... | 3.3-16 |
| 3.3-4 | Sensitive Wildlife Species..... | 3.3-28 |
| 3.3-5 | Impacts on Plant Communities..... | 3.3-48 |
| 3.5-1 | General Characteristics of Soils in the Project Area | 3.5-4 |
| 3.5-2 | Maximum Credible Earthquake and Recurrence Interval for Principal Active Faults in the Project Vicinity..... | 3.5-5 |
| 3.6-1 | Estimate of Project-Related Greenhouse Gas Emissions..... | 3.6-7 |
| 3.7-1 | Sites Identified by EDR Database Search | 3.7-4 |
| 3.8-1 | Climate Data for the City of Lake Forest | 3.8-1 |
| 3.8-2 | CWA Section 303(d) List of Water Quality Limited Segments (Those requiring TMDLs [A] and those being addressed by TMDLs [B])..... | 3.8-3 |
| 3.8-3 | Surface Water Quality Objectives, San Diego Basin Plan (Concentrations not to be exceed more than 10% of the time during any one year) | 3.8-4 |
| 3.9-1 | Existing General Plan Land Use Designations | 3.9-3 |
| 3.9-2 | Existing Planned Communities and Zoning Designations for Project Parcels..... | 3.9-6 |
| 3.9-3 | Proposed General Plan Amendment Glass Creek Property..... | 3.9-9 |
| 3.11-1 | Sound Levels of Typical Noise Sources | 3.11-2 |
| 3.11-2 | Short-Term Sound Level Measurement Results | 3.11-4 |
| 3.11-3 | Traffic Noise Data Summary | 3.11-9 |
| 3.11-4 | Typical Noise Levels from Construction Activities for Recreation Projects | 3.11-11 |
| 3.11-5 | Construction Noise, Grading Scenario 1 | 3.11-12 |
| 3.11-6 | Construction Noise, Grading Scenario 2 | 3.11-13 |
| 3.11-7 | Operational Noise, Grading Scenario 1..... | 3.11-14 |
| 3.11-8 | Operational Noise, Grading Scenario 2..... | 3.11-15 |
| 3.12-1 | Orange County Sensitivity of Geologic Units in the Project Area | 3.12-3 |

| | | |
|---------|--|---------|
| 3.12-2 | Orange County Guidance on Expected Field Monitoring Time Based on Paleontological Sensitivity of a Geologic Unit | 3.12-5 |
| 3.13-1 | Fire Stations in the Project Vicinity | 3.13-2 |
| 3.13-2 | Project Water Demand Estimates..... | 3.13-11 |
| 3.14-1 | Levels of Service Descriptions – Signalized Intersections | 3.14-4 |
| 3.14-2 | Levels of Service Descriptions – Freeway/Tollways..... | 3.14-5 |
| 3.14-3 | Existing (2008) Study Intersection LOS Summary | 3.14-6 |
| 3.14-4 | Santa Margarita Parkway just east of El Toro Road Peak Hour Traffic Counts..... | 3.14-7 |
| 3.14-5 | Existing Freeway/Tollway Ramp LOS Summary | 3.14-8 |
| 3.14-6 | Existing I-5 Freeway/SR-241 Tollway Mainline Peak Hour LOS Summary | 3.14-10 |
| 3.14-7 | Freeway/Tollway Ramp Performance Criteria..... | 3.14-11 |
| 3.14-8 | City of Lake Forest Performance Criteria | 3.14-13 |
| 3.14-9 | Existing Land use and Proposed Project Trip Generation Summary—Year 2011 Short-Term and Year 2015 Cumulative..... | 3.14-18 |
| 3.14-10 | Year 2011 Short-Term Intersection LOS within the Study Area | 3.14-20 |
| 3.14-11 | Year 2011 Short-Term—Freeway/Tollway Ramp LOS Summary | 3.14-22 |
| 3.14-12 | Year 2011 Short-Term—Freeway/Tollway Ramp LOS Summary | 3.14-23 |
| 3.14-13 | Year 2015 Cumulative Intersection LOS Summary within the Study Area | 3.14-25 |
| 4-1 | Projects Potentially Contributing to Cumulative Impacts..... | 4-2 |
| 5-1 | Summary of Alternatives Considered | 5-9 |
| 5-2 | Comparison of Alternatives (after Mitigation) | 5-10 |
| 5-3 | Estimate of Construction Emissions for Alternative 7 (pounds per day)..... | 5-37 |
| 5-4 | Estimate of Mitigated Construction Emissions for Alternative 7 (pounds per day) | 5-38 |
| 5-5 | Estimate of Greenhouse Gas Emissions for Alternative 7 | 5-39 |

Figures

| | Follows Page |
|--|---------------------|
| ES-1 Regional Location Map | ES-2 |
| ES-2 Project Vicinity Map..... | ES-2 |
| ES-3 Consensus Master Plan..... | ES-2 |
| ES-4 Proposed Access Locations | ES-2 |
| ES-5 General Plan Amendment, Before and After..... | ES-4 |
| 2-1 Regional Location Map | 2-2 |
| 2-2 Project Vicinity Map..... | 2-2 |
| 2-3 Project Site and Surrounding Uses | 2-4 |
| 2-4 Consensus Master Plan..... | 2-4 |
| 2-5 Proposed Access Locations | 2-6 |
| 2-6 General Plan Amendment, Before and After..... | 2-6 |
| 2-7 Phase 1 Site and Interim Slope Condition..... | 2-6 |
| 2-8 Phase 2 Site and Interim Slope Condition..... | 2-8 |
| 2-9 Phase 3 Site..... | 2-8 |
| 2-10 Grading Scenario 1: Highest Pad Elevation (Balanced Grade)..... | 2-8 |
| 2-11 Grading Scenario 2: Lowest Pad Elevation (Grading Export)..... | 2-8 |
| 3.1-1 Scenic Resources and Sensitive Receptors | 3.1-4 |
| 3.1-2 Existing View of the Project Area..... | 3.1-6 |
| 3.1-3 Existing View of the Project Area..... | 3.1-6 |
| 3.1-4 Existing View of the Project Area..... | 3.1-6 |
| 3.1-5 Existing View of the Project Area..... | 3.1-6 |
| 3.1-6 Key Observation Points..... | 3.1-10 |
| 3.1-7 Existing View of the Project Area from Key Observation Point A..... | 3.1-12 |
| 3.1-8 Simulated View of the Proposed Project from Key Observation Point A: Grading Scenario 1, High Pad | 3.1-12 |

| | | |
|--------|--|--------|
| 3.1-9 | Simulated View of the Proposed Project from Key Observation Point A: Grading Scenario 2, Low Pad | 3.1-14 |
| 3.1-10 | Existing View of the Project Area from Key Observation Point B | 3.1-14 |
| 3.1-11 | Simulated View of the Proposed Project from Key Observation Point B: Grading Scenario 1, High Pad | 3.1-16 |
| 3.1-12 | Simulated View of the Proposed Project from Key Observation Point B: Grading Scenario 2, Low Pad | 3.1-16 |
| 3.1-13 | Estimated Spill Light Blanket Grid—Proposed Project | 3.1-20 |
| 3.1-14 | Existing View of the Project Area from Key Observation Point C | 3.1-22 |
| 3.1-15 | Simulated View of the Proposed Project from Key Observation Point C: Grading Scenario 1, High Pad | 3.1-24 |
| 3.1-16 | Simulated View of the Proposed Project from Key Observation Point C: Grading Scenario 2, Low Pad | 3.1-24 |
| 3.1-17 | Existing View of the Project Area from Key Observation Point D..... | 3.1-24 |
| 3.1-18 | Simulated View of the Proposed Project from Key Observation Point D: Grading Scenario 1, High Pad | 3.1-26 |
| 3.1-19 | Simulated View of the Proposed Project from Key Observation Point D: Grading Scenario 2, Low Pad | 3.1-26 |
| 3.1-20 | Existing View of the Project Area from Key Observation Point E | 3.1-26 |
| 3.1-21 | Simulated View of the Proposed Project from Key Observation Point E: Grading Scenario 1, High Pad | 3.1-26 |
| 3.1-22 | Simulated View of the Proposed Project from Key Observation Point E: Grading Scenario 2, Low Pad | 3.1-28 |
| 3.3-1 | Relationship to the Orange County NCCP..... | 3.3-4 |
| 3.3-2 | Plant Communities..... | 3.3-6 |
| 3.3-3 | Jurisdictional Features | 3.3-10 |
| 3.3-4 | Sensitive Plant Species Locations..... | 3.3-26 |
| 3.3-5 | Impacts on Sensitive Plant Species Locations..... | 3.3-42 |
| 3.3-6 | Impacts on Plant Communities | 3.3-48 |
| 3.3-7 | Impacts to Jurisdictional Features | 3.3-50 |
| 3.5-1 | Soils Map..... | 3.5-4 |

| | | |
|---------|--|---------|
| 3.5-2 | Principal Active Faults | 3.5-6 |
| 3.5-3 | Seismic Hazard Zones..... | 3.5-6 |
| 3.8-1 | Aliso Creek and San Diego Creek Watersheds..... | 3.8-6 |
| 3.8-2 | FEMA Flood Zones | 3.8-8 |
| 3.9-1 | General Plan Land Use Designations | 3.9-4 |
| 3.9-2 | Zoning | 3.9-6 |
| 3.11-1 | Noise Measurement Locations | 3.11-4 |
| 3.14-1 | Existing Circulation System within the Study Area | 3.14-2 |
| 3.14-2 | Existing ADT Volumes (000s) | 3.14-6 |
| 3.14-3 | Existing Study Intersection Location Map..... | 3.14-6 |
| 3.14-4 | Santa Margarita Parkway South of El Toro Road 24 Hour Traffic Counts..... | 3.14-8 |
| 3.14-5 | Year 2011 Short-Term Conditions—Circulation System in the Study Area | 3.14-16 |
| 3.14-6 | Year 2015 Cumulative Conditions—Circulation System in the Study Area | 3.14-16 |
| 3.14-7 | Year 2011 Short-Term Conditions—Project Trip Distribution | 3.14-18 |
| 3.14-8 | Year 2015 Cumulative Conditions—Project Trip Distribution | 3.14-18 |
| 3.14-9 | Year 2011 Short-Term Conditions ADT Volumes (000s)—No Project | 3.14-20 |
| 3.14-10 | Year 2011 Short-Term Conditions ADT Volumes (000s)—With Project | 3.14-20 |
| 3.14-11 | Year 2015 Cumulative Conditions ADT Volumes (000s)—No Project | 3.14-24 |
| 3.14-12 | Year 2015 Cumulative Conditions ADT Volumes (000s)—With Project | 3.14-24 |
| 4-1 | Cumulative Projects | 4-2 |
| 5-1 | Alternative 7 Plan..... | 5-6 |
| 5-2 | Alternative 7 Lighting..... | 5-38 |

Acronyms and Abbreviations

| | |
|-------------------|--|
| µg/m ³ | microgram per cubic meter |
| ACOE, USACE | U.S. Army Corps of Engineers |
| ADT | average daily traffic |
| AFY | acre-fee per year |
| AGR | agriculture |
| APN | Assessor Parcel Number |
| APST | Aboveground Petroleum Storage Tanks |
| AQMPs | air quality management plans |
| ARB | California Air Resources Board |
| ASTM | American Society for Testing and Materials |
| Basin | South Coast Air Basin |
| Basin Plans | Regional Water Quality Control Plans |
| BAU | business as usual |
| BFEs | base flood elevations |
| BLM | Bureau of Land Management |
| BMPs | Best Management Practices |
| CAA | Clean Air Act |
| CAAQS | California Ambient Air Quality Standards |
| Cal/OSHA | California Occupational Safety and Health Administration |
| CalARP | California Accidental Release Program |
| Caltrans | California Department of Transportation |
| CCAA | California Clean Air Act |
| CCR | California Code of Regulations |
| CDFG | California Department of Fish and Game |
| CDMG | California Division of Mines and Geology |
| CEC | California Energy Commission |
| CEQA | California Environmental Quality Act |
| CFR | Code of Federal Regulations |
| cfs | cubic feet per second |
| CGS | California Geological Survey |
| CH ₄ | Methane |
| CHMIRS | California Hazardous Material Incident Reporting System |
| CHP | California Highway Patrol |
| CIP | Capital Improvement Program |
| City | City of Lake Forest |
| CIWMB | California Integrated Waste Management Board |
| CMP | Congestion Management Program |

| | |
|-------------------|---|
| CNDDDB | California Natural Diversity Database |
| CNEL | Community Noise Equivalent Level |
| CNPS | California Native Plant Society |
| CO | carbon monoxide |
| CO ₂ | carbon dioxide |
| CO ₂ e | carbon dioxide equivalents |
| Corps | U.S. Army Corps of Engineers |
| County | County of Orange |
| CP/OS | Community Park/Open Space |
| CPUC | California Public Utilities Commission |
| CRHR | California Register of Historical Resources |
| CSS | coastal sage scrub |
| CUPA | Certified Unified Program Agency |
| CWA | Clean Water Act |
| DAMP | Drainage Area Management Plan |
| DATS | the Deep Aquifer Treatment System |
| dB | decibels |
| dBA | A-weighted sound level |
| DFG | California Department of Fish & Game |
| DOT | Department of Transportation |
| DPM | Diesel Particulate Matter |
| DRWF | Dyer Road Well Field |
| DTSC | Department of Toxic Substances Control |
| EDR | Environmental Data Resources |
| EIR | Environmental Impact Report |
| EMI | Emissions Inventory Data |
| EPA | U.S. Environmental Protection Agency |
| EPCRA | Emergency Planning and Community Right-To-Know Act |
| ESA | Endangered Species Act |
| ESAs | Environmentally Sensitive Areas |
| ETMC | El Toro Materials Company |
| F | Fahrenheit |
| FEMA | Federal Emergency Management Agency |
| FFS | Free-flow speeds |
| FGC | Fish and Game Code |
| FHWA | U.S. Department of Transportation Federal Highway Administration |
| FINDS | Facility Index System/Facility Identification Initiative Program Summary Report |
| FIRMs | Federal Insurance Rate Maps |
| GC | Glass Creek |
| GHG | greenhouse gases |
| GPA | a General Plan Amendment |

| | |
|------------------|--|
| gpd | gallons per day |
| GWP | global warming potential |
| HCFCs | Hydrochlorofluorocarbons |
| HCM | Highway Capacity Manual |
| HCP | Habitat Conservation Plan |
| HFCs | Hydrofluorocarbons |
| HMD | Hazardous Materials Disclosure |
| HOV | high occupancy vehicle |
| HSC | Health and Safety Code |
| Hz | hertz |
| I- 5 | Interstate |
| I-405 | Interstate 405 |
| ICU | intersection capacity utilization |
| IPCC | Intergovernmental Panel on Climate Change |
| IRWD | Irvine Ranch Water District |
| KOPs | key observation points |
| LAWRP | Los Alisos Water Reclamation Plant |
| L _{dn} | Day-Night Average Sound Level |
| LEPC | Local Emergency Planning Committee |
| L _{eq} | equivalent sound level |
| LFTAM | Lake Forest Traffic Analysis Model |
| LFTM | Lake Forest Traffic Mitigation Fee Program |
| LGC | Lawson & Associates Geotechnical Consulting, Inc. |
| LIPs | Local Implementation Plans |
| L _{max} | root-mean-square maximum obtainable noise level |
| L _{min} | root-mean-square minimum obtainable noise level |
| LOS | level of service |
| LST | Localized Significance Threshold |
| MATES III | Multiple Air Toxics Exposure Study III |
| MBTA | Migratory Bird Treaty Act |
| MINES | Mines Master Index File |
| MLD | Most Likely Descendent |
| MMT | million metric tons |
| MPAH | Master Plan of Arterial Highways |
| MPO | metropolitan planning organization |
| MRZ | Mineral Resource Zone |
| MRZ-2 | Mineral Resource |
| MRZ-2 | Mineral Resource |
| MS4 | Municipal Separate Storm Sewer System |
| MSL | mean sea level |
| MWD | Metropolitan Water District of Southern California |
| MWRP | Michelson Water Reclamation Plan |

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|--------------------|--|
| NAAQS | National Ambient Air Quality Standards |
| NAHC | Native American Heritage Commission |
| NCCP | Natural Community Conservation Plan |
| NFIP | National Flood Insurance Program |
| NO ₂ | nitrogen dioxide |
| NOI | Notice of Intent |
| NOP | Notice of Preparation |
| NPDES | National Pollutant Discharge Elimination System |
| NRC | Nuclear Regulatory Commission |
| NRCS | Natural Resources Conservation Service |
| NRHP | National Register of Historic Places |
| NROC | Nature Reserve of Orange County |
| O ₃ | Ozone |
| OCFA | Orange County Fire Authority |
| OCFCD | Orange County Flood Control District |
| OCSD | Orange County Sheriff Department |
| OCTA | Orange County Transportation Authority |
| OCTAM | Orange County Transportation Analysis Model |
| OCWD | Orange County Water District |
| OEHHA | Office of Environmental Health Hazard Assessment |
| OES | Office of Emergency Services |
| OPR | Office of Planning and Research |
| OSA | Opportunity Study Area |
| OSHA | Occupational Health and Safety Administration |
| Pb | Lead |
| PCC | Portland cement concrete |
| PCWQCA | Porter-Cologne Water Quality Control Act |
| PEIR | program environmental impact report |
| PFCs | Perfluorocarbons |
| PM ₁₀ | particulate matter less than or equal to 10 micrometers in diameter |
| PM _{2.5} | particulate matter less than or equal to 2.5 micrometers in diameter |
| Porter-Cologne Act | Porter-Cologne Water Quality Control Act |
| ppm | parts per million |
| PRC | Public Resources Code |
| RCPG | Regional Comprehensive Plan and Guide |
| RCRA | Resource Conservation and Recovery Act of 1976 |
| RHNA | Regional Housing Needs Assessment |
| RP/OS | Regional Park/Open Space |
| RWQCB | Regional Water Quality Control Board |
| SARA | Superfund Amendments and Reauthorization Act |
| SB | Senate Bill |

| | |
|-----------------|---|
| SCAG | Southern California Association of Governments |
| SCAQMD | South Coast Air Quality Management District |
| SCS | Soil Conservation Service |
| SERC | State Emergency Response Commission |
| sf | square feet |
| SF ₆ | Sulfur Hexafluoride |
| SG districts | sand and gravel extraction districts |
| SIP | State Implementation Plan |
| SLM | Sound Level Meter |
| SMARA | Surface Mining and Reclamation Act |
| SO ₂ | sulfur dioxide |
| SOCWA | South Orange County Water Agency |
| SR-241 | State Route 241, Foothill Transportation Corridor |
| SRA | Source Receptor Area |
| SWMP | stormwater management program |
| SWPPP | Stormwater Pollution Prevention Plan |
| TACs | toxic air contaminants |
| the County | Orange County |
| TIA | Traffic Impact Analysis |
| TNM | Traffic Noise Model |
| UCMP | University of California Museum of Paleontology |
| URMP | Urban Runoff Management Program |
| USACE, ACOE | U.S. Army Corps of Engineers |
| USFWS | U.S. Fish and Wildlife Service |
| USGS | U.S. Geological Survey |
| UST | Underground Storage Tanks |
| UWMPs | Urban Water Management Plans |
| V/C | volume-to-capacity |
| VMT | vehicle miles traveled |
| VOCs | volatile organic compounds |
| vphpl | vehicles per hour per lane |
| WDR | Waste Discharge Requirement |
| WQMP | Water Quality Management Plan |
| WQOs | water quality objectives |
| WRCC | Western Regional Climate Center |
| WSA | Water Supply Assessment |

