Final Program Environmental Impact Report 589 (SCH Number 2003021141)

THE RANCH PLAN

General Plan Amendment/Zone Change (PA 01-114)

Mitigation Monitoring and Reporting Program

County of Orange Planning and Development Services 300 North Flower Street Santa Ana, CA 92702-4048

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November 8, 2004

INTRODUCTION

In accordance with the requirements of the CALIFORNIA PUBLIC RESOURCES CODE §21081.6, and as part of its certification of the adequacy of the Final Program Environmental Impact Report (EIR) No. 589 for the Ranch Plan General Plan Amendment/Zone Change (PA 01-114), the Board of Supervisors of the County of Orange adopts the following "Mitigation Monitoring and Reporting Program" (MMRP), which contains the mitigation program that has been incorporated through preparation of the Program EIR and response to comments during the public review process. The mitigation program includes Project Design Features (PDF), Standard Conditions (SC) and Mitigation Measures (MM), all of which have been identified measures to reduce potential adverse environmental impacts. These three components of the mitigation program are described below.

- Project Design Features—Project Design Features (PDFs) are specific design elements proposed by the project applicant that have been incorporated into the project to prevent the occurrence of, or reduce the significance of, potential environmental effects. Because PDFs have been incorporated into the project, they do not constitute mitigation measures as defined by CEQA. However, PDFs are identified in the mitigation monitoring program.
- Standard Conditions and Regulations-Standard conditions and regulations are based on local, state, or federal regulations or laws that are frequently required independently of CEQA review and also serve to offset or prevent specific impacts. Typical standard conditions and requirements include compliance with the provisions of the Uniform Building Code, South Coast Air Quality Management District Rules, local agency fees, Additional conditions may be imposed on the project by government agencies etc. during the approval process, as appropriate. The applicability of many of the standard conditions and regulations to the project would be finally determined at later phases of project approval in association with subsequent discretionary and administrative The County of Orange Standard Conditions that would be applied (as approvals. appropriate) to the project at subsequent levels of approval (i.e., grading permits and tract maps) are listed in this MMRP. These are separate discretionary actions, which will be subject to CEQA evaluation at a later time. When an adopted Orange County Standard Condition of Approval is identified, the number of the condition is listed in parentheses. It should be noted these standard conditions often identify lots that would be provided for public purposes. This level of information cannot be known until tract maps are proposed. However, the identification of the standard conditions was identified in Program EIR 589 to allow the reader an understanding of conditions that would be applied (as appropriate) to the project at subsequent levels of approval.
- **Mitigation Measures**—Where a potentially significant environmental effect has been identified and is not reduced to a level considered less than significant through the application of PDFs, and standard conditions and regulations, project-specific mitigation measures have been identified.

Draft Program EIR 589 identified a number of mitigation measures that were applicable to the Ranch Plan project as proposed by the applicant (Alternative B-4). However, the Board of Supervisors adopted the County staff recommended Alternative B-10 Modified. Alternative B-10 Modified avoided impacts to certain resources; therefore, not all the mitigation measures proposed in Draft Program EIR 589 are required for the project as adopted. Additionally, there are project design features that were unique to the applicant's proposal that have not been incorporated into the project as adopted. Specifically, the following measures are not applicable to the project as adopted:

- PDF 4.2-3 and SC 4.2-1 pertain to Williamson Act cancellation and are no longer applicable because the project as adopted does not provide for early cancellation of the Williamson Act contract.
- MM 4.9-4 and MM 4.9-12 provided mitigation for southwestern pond turtle breeding and estivation habitat, which would no longer be impacted.
- MM 4.9-5 provided mitigation for the western spadefoot toad breeding and estivation habitat associated with the stockpond in Planning Area 6, which would no longer be impacted.
- MM 4.9-6 provided mitigation for alkali wetlands in Planning Area 7, which would be avoided with Alternative B-10 Modified.
- MM 4.9-8, MM 4.9-9, MM 4.9-17 and MM 4.9-20 provided mitigation for populations of thread-leaved brodiaea, which would no longer be impacted.
- MM 4.9-10, MM 4.9-13, MM 4.9-18 and MM 4.9-21 provided mitigation for populations of many-stemmed dudleya, which would no longer be impacted.
- MM 4.9-11 and MM 4.9-14 provided mitigation for populations of Coulter's saltbush, which would no longer be impacted
- MM 4.9-15 provided for protection of gnatcatcher locations in the Lower Gabino subunit. This measure is no longer applicable because Alternative B-10 Modified does not propose development in this area.
- MM 4.9-34 provided for use of native habitats in the golf course in the Gabino sub-basin. This golf course will not be constructed as part of the adopted project.
- PDF 4.12-1 and SC 4.12-3 pertained to the regional park proposed by the applicant. This feature is not included in the adopted project.

The Board adopts this MMRP in its capacity as the lead agency for certification of Final Program EIR 589 in accordance with the provisions of the CALIFORNIA ENVIRONMENTAL QUALITY ACT ("CEQA") (CAL.PUB.RES.CODE §§21000, *et seq.*) and its implementing guidelines (14 CAL.CODE REGS. §§15000, *et seq.*) (the "CEQA GUIDELINES").

The principal purpose of the MMRP is to ensure that the Board-approved mitigation measures for the adopted Project are implemented and monitored for compliance during subsequent planning stages and, ultimately, during project implementation. In general, the County of Orange is responsible for overseeing implementation and completion of the adopted mitigation measures. This includes the review of all monitoring reports, enforcement actions, and document disposition, unless otherwise noted in the attached MMRP table. If an adopted mitigation measure is not being properly implemented, the designated monitoring personnel shall require corrective actions to ensure adequate implementation.

MITIGATION MONITORING AND REPORTING PROGRAM

The MMRP is provided in tabular format to facilitate effective tracking and documentation of the status of mitigation measures. The attached MMRP table provides the following monitoring information:

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- *Mitigation Measure*-A list or inventory of all the adopted mitigation measures for the Project from Section 4.0 of the Final Program EIR 589, as revised or otherwise modified in the comments and responses to the Final EIR 589, or at meetings before the Orange County Planning Commission or the Orange County Board of Supervisors.
- Implementing Action-Identifies the method by which the adopted measure will be initiated by the applicant. Satisfactory completion of the measure will be verified by the Reponsible Party.
- *Timing of Verification*-The appropriate time or phase for the implementation of each mitigation measure; and
- *Responsible Party*-The County Department or Departments responsible for overseeing the implementation and completion of each mitigation measure. Where consultation with other agencies is required the applicable agency is noted in parentheses. However, the responsibility to determine compliance with the mitigation measure lies with the County, as the lead agency for the project.

The following are acronyms used in the Mitigation Monitoring Matrix:

A AGT AMP	Above Ground Tank Adaptive Management Program
B BMPs BRCP	Best Management Practices Biological Resources Construction Plan
C CARB CC&Rs CCR CEQA CLOMR CNEL CPC CUSD	California Air Resources Board Conditions, Covenants, and Restrictions California Code of Regulations California Environmental Quality Act Conditional Letter of Map Revision Community Noise Impact Level Catalina Pacific Concrete Capistrano Unified School District
D DAMP dBA DTSC	Drainage Area Management Plan A-weighted decibel Department of Toxic Substance Control
E EIR ESA ESCP	Environmental Impact Report Environmental Site Assessment Erosion and Sediment Control Plan
F FCDM FD/WQ FEMA FIIC FIRM FP FSTC FTC	Flood Control Design Manual Flow Duration/Water Quality Federal Emergency Management Agency Field Impact Insulation Class Flood Insurance Rate Map Flood Plain Field Sound Transmission Class Foothill Transportation Corridor
G	
H HBP HCP HSCP	Harbors, Beaches and Parks Habitat Conservation Plan Health and Safety Contingency Plan
I I-5 IGCMP	Interstate 5 Integrated Golf Course Management Plan
K kV	Kilovolt

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L LPP	Locally Preferred Plan
M MCB MM MMRP MPAH MPD MSAA MWD	Marine Corps Base Mitigation Measure Mitigation Monitoring and Reporting Program Master Plan of Arterial Highways Master Plan of Drainage Master Streambed Alteration Agreement Metropolitan Water District of Southern California
N NCCP/HCP NO _x NOI	Natural Community Conservation Plan/Habitat Conservation Plan Nitrogen Oxides Notice of Intent
O O&M OCFA OCFCD OCHCA OCHM OCIWMD OCSD	Operations and Maintenance Orange County Fire Authority Orange County Flood Control District Orange County Health Care Authority Orange County Hydrology Manual Orange County Integrated Waste Management Department Orange County Sheriff's Department
P PA PAH PC PDF PDS PFRD PSD	Public Application Polycyclic Aromatic Hydrocarbon Planned Community Project Design Features Planning and Development Services Public Facilities and Resources Department Planning and Development Services
R RCUZ RDMD RMP RMV ROC ROMP RWQCB	Range Compatibility Use Zone Resources Development and Management Department Runoff Management Plan Rancho Mission Viejo Reactive Organic Compounds Runoff Management Plan Regional Water Quality Control Board
S SAMP SAMP/MSAA SCAQMD SCRIP SDG&E SDRWQCB SFPA SMWD	Special Area Management Plan Special Area Management Plan/Master Streambed Alteration Agreement South Coast Air Quality Management District South County Road Improvements Program San Diego Gas and Electric San Diego Regional Water Quality Control Board Special Fire Protection Area Santa Margarita Water District

SoCalGas SR SWPPP	Southern California Gas Company State Route Storm Water Pollution Prevention Plan
T TDM TRM TRW TTM	Transportation Demand Management Turf-Reinforced Mat Northrup Grumman Space Technology Tentative Tract Map
U UBC UST	Universal Building Code Underground Storage Tanks
W WDID WQMP	Waste Discharge Identification Water quality Management Plan
z ZC	Zone Change

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
LAND USE AND RELATED PLANNING PROC				
PDF 4.1-1 Prior to approval of the first Master Area Plan, the landowner shall enter into an agreement with the County regarding the 15,132-acre RMV Open Space. The agreement shall address:	Execution of an Open Space Agreement between landowner and County	First Master Area Plan approval	County of Orange Director of Planning & Development Services	
 Method of preservation for this open space (i.e., conservation easement or similar mechanism) Permitted uses within the open space as 			Area Plans are reviewed by Planning Commission	
defined in the PC Text;				
• Non-permitted uses within the open space as defined in the PC Text;				
 Phasing of open space preservation areas. Phasing of open space areas will be consistent with development phasing; and 				
Funding mechanism for implementation of the Adaptive Management Program (AMP) as described in the Draft Program EIR.				
PDF 4.1-2 A component of the Ranch Plan Planned Community Program Text is the provision for the processing of Master Area Plans, which would cover an entire Planning Area, as well as Subarea Plans for smaller areas within each Planning Area. These	Preparation of Master Area Plans and Subarea Plans	At time of Master Area Plan and Subarea Plan approvals, as applicable	County of Orange Director of Planning & Development Services	
plans would address the project's compliance with the zoning regulations, as well as other applicable codes and requirements. The Master Area Plan shall cover the entire			Area Plans are reviewed by Planning Commission	
Planning Area and address the provisions for a Master Area Plan as defined in Section II.B.3a of the <i>Ranch Plan Planned</i> <i>Community Program Text</i> . In addition to a Master Area Plan, Subarea Plans addressing				
the provisions outlined in Section II.B.3b of the Ranch Plan Planned Community Program Text shall be required for all development				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
areas. Multiple Subarea Plans addressing portions of a Planning Area may be prepared, provided a Master area Plan for all development areas has been prepared. (The requirements for the Master Area Plan and the Subarea Plan are provided in Section 3.4.5.)				
PDF 4.1-3 The project proposes a mix of uses and housing densities, including estates, single-family conventional housing, multi-family units, senior housing, and apartments that would provide housing opportunities for a range of income levels. Of the 14,000 dwelling units proposed within the Ranch Plan PC Area, the Environmental	Inclusion in Master Area Plans of a statistical table estimating proposed senior citizen housing dwelling units by planning Subarea	In conjunction with approval of Master Area Plans and Subarea Plans	County of Orange Director of Planning & Development Services	
Impact Report has analyzed the provision of approximately 6,000 senior citizen housing dwelling units. Each Master Area Plan shall provide a statistical table estimating the proposed senior citizen housing dwelling	Each subsequent Subarea Plan to specify the location and number of Senior Housing dwelling units		Area Plans are reviewed by Planning Commission	
units by Planning Subarea. Each subsequent Subarea Plan shall then specify the location and number of Senior Housing dwelling units as regulated by Section III.A.5 of this Ranch Plan PC Text. An Annual Monitoring Report (per General Note 11) will be prepared each year as an inventory of dwelling units.	Approval of Annual Monitoring Report	Annually review AMR		
PDF 4.1-4 In conjunction with the processing of the site development permit for any golf course, the applicant will submit an Integrated Golf Course Management Plan (IGCMP), which will provide direction for the operation of the golf course. The IGCMP will provide overall structure and guidance for turf grass management that creates desirable playing conditions while protecting adjacent sensitive habitats and species. The IGCMP would:	Submittal of satisfactory Integrated Golf Course Management Plan	At times of Issuance of Site Development Permit	Manager, County of Orange Director of Planning & Development Services	

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Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
 Describe the cultural, mechanical, biological, fertilizer, and irrigation strategies necessary to achieve and maintain turf health and vigor. 				
 List anticipated pests, monitoring methods, area-specific damage thresholds, and control strategies for each identified pest. 				
c. Provide information on the type and class of pesticide, selection considerations, methods and restrictions for application, and environmental considerations.				
d. Describe methods for monitoring chemicals in surface, storm, and groundwater. Mitigation and corrective actions would be identified.				
Implementation of the IGCMP will be the responsibility of the golf course operator. The IGCMP shall be approved by the County of Orange in accordance with the applicable water quality requirements. The County of Orange will not be responsible for the management or maintenance of the proposed facility.				
MM 4.1-1 Prior to sale, lease, or rental of any residential structure or portion thereof within Planning Area 8, the applicant/owner shall provide to each prospective purchaser, lessee, or tenant a notice and statement of acknowledgment that shall be executed by the prospective purchaser, lessee or tenant that the property within Planning Area 8 may be subject to overflight and sound of military operations of MCB-Camp Pendleton. The form and method of distribution of said notice and statement of acknowledgment shall be as approved by the Manager, Building Permits.	Notice and Statement of Acknowledgement executed by to prospective purchaser, lessee, or tenant	Approval of Notice prior to issuance of first Building Permit in PA 8	Manager, Building Permits	
MM 4.1-2 At the time of Master Area Plan	Submittal of most current	Prior to Master Area Plan	County of Orange	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
approval for Planning Area 8, the Planning Director shall evaluate the most current RCUZ for MCB Camp Pendleton to ensure that noise sensitive land uses are not constructed in areas that would exceed state noise standards.	RCUZ for MCB Camp Pendleton with evaluation of noise impacts prepared by noise consultant	approval for PA 8	Director of Planning & Development Services Area Plans are reviewed by Planning Commission	
MM 4.1-3 Prior to the sale, lease or rental of any residential, commercial or industrial structure or portion thereof within Planning Area 5, the applicant/owner shall provide to each prospective purchaser, lessee, or tenant a notice and statement of acknowledgement that shall be executed by the prospective purchaser, lessee or tenant that the property within Planning Area 5 is located immediately adjacent to Prima Deshecha Landfill, a facility that will continue to operate until its scheduled closure in 2067 or until it reaches its design capacity in accordance with the 2001 General Development Plan and all subsequent amendments thereto. The form and method of distribution of said notice and statement acknowledging same shall be approved by the Director, Integrated Waste Management Department or his designee.	Statement of Acknowledgement executed by each prospective purchaser, lessee or tenant that the property within PA 5 is located immediately adjacent to Prima Deshecha Landfill	Approval of form of Notice and Acknowledgement prior to issuance of first Building Permit in PA 5, with periodic review of subsequent executed notices	County of Orange Director of Integrated Waste Management Department	
AGRICULTURE			County of Orongo	
PDF 4.2-1 The project has incorporated provisions into the project design to continue the cattle ranching activities and maintain the agricultural operation on portions of The Ranch. The ongoing grazing will be conducted in compliance with the Grazing Management Plan proposed as part of the Adaptive Management Plan (Appendix J) to ensure protection of sensitive species.	Approval of Adaptive Management Plan that includes a Grazing Management Plan	PDF is effective for each portion of The Ranch at such time as that portion becomes subject to the requirements of the Adaptive Management Program (i.e., when phasing of open space occurs for first area); ongoing conpliance to be documented annually as specified in the Grazing	County of Orange Director of Planning & Development Services	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
PDF 4.2-2 The project provides for continued citrus production in Planning Areas 2, 7, and 10 and avocado orchards in Planning Areas 2 and 7. The location and amounts of the agricultural resources shall be identified as part of the Master Area Plan for Planning Areas 2, 7, and 10.	Submittal of documentation of compliance with the Ranch Plan Planned Community Program Text and Regulation #16 and Section III.H	Management Plan. In conjunction with the Master Area Plan approval for PAs 2, 7, and 10 Prior to planting of the	County of Orange Director of Planning & Development Services Area Plans are reviewed by Planning Commission County of Orange	
brochards in Planning Area 7, a qualified biologist shall survey the site for listed species to avoid potential environmental impacts. Should any listed species be identified, the location of the planned brochards will be modified to avoid the resources or a mitigation plan consistent with the applicable requirements outlined in Section 4.9, Biological Resources, shall be developed and implemented. POPULATION AND HOUSING	identifying listed species at the location of the planned orchards with subsequent mitigation plan, if required	planned orchards in PA 7	Director of Planning & Development Services	
PDF 4.3-1 The Ranch Plan would provide a	No concrete monitoring in	N/A	N/A	No concrete
slightly higher jobs/housing ratio than SCAG's assumed ratio for Orange County. This would increase the overall jobs/housing balance for southern Orange County, which is currently below the SCAG ratio.	No separate monitoring is required. Compliance is assured through project implementation and MMRP process.			No separate monitoring required.
PDF 4.3-2 Rancho Mission Viejo would relocate displaced residents prior to approval of demolition permits. Mitigation Measure 4.3-1 further supports this project design feature.	No separate monitoring is required. This project design feature would be monitored in conjunction with implementation of MM 4.3-1.	N/A	N/A	No separate monitoring required.
MM 4.3-1 In conjunction with approval of an Area Plan for those portions of Planning Areas 1 and 3 where existing residential units would be displaced, the applicant shall provide evidence of relocation of any remaining residents.	Submittal of evidence of relocation of any remaining residents	In conjunction with approval of an Subarea Plan for portions of PA 1 and PA 3 where existing residential units would be displaced	County of Orange Director of Planning & Development Services Area Plans are reviewed by Planning Commission	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
GEOLOGY AND SOILS				
PDF 4.4-1 The earth-fill dams located within the boundaries of the development areas that impound the existing on-site reservoirs shall be removed concurrent with grading.	Submittal of evidence of State of California Division of Dams approval of plans, as applicable	Prior to issuance of Grading Permit	County of Orange Director of Planning & Development Services (State of California Division of Dams)	
SC 4.4-1 Prior to the issuance of a grading permit, the applicant shall submit a geotechnical report to the Manager of Subdivision and Grading, for approval. The report shall meet the requirements outlined in the County of Orange Grading Code and Manual. (County of Orange Standard Condition of Approval, G01)	Submittal of satisfactory geotechnical report	Prior to the issuance of a grading permit	County of Orange Director of Planning & Development Services	
SC 4.4-2 Prior to the issuance of any grading permits, the Manager of Subdivision and Grading shall review the grading plan for conformance with the grading shown on the approved tentative map. If the applicant submits a grading plan which the Manager of Subdivision and Grading determines to show a significant deviation from the grading shown on the approved tentative map, specifically with regard to slope heights, slope ratios, pad elevations or configurations, the Subdivision Committee shall review the plan for a finding of substantial conformance. If the Subdivision Committee fails to make such a finding, the applicant shall process a revised tentative map; or, if a final map has been recorded, the applicant shall process a new tentative map or a site development permit application per Orange County Zoning Code Sections 7-9- 139 and 7-9-150. Additionally, the applicant shall process a new environmental assessment for determination by the decision making entity. (County of Orange Standard Condition of Approval, G02)	Approval of grading plan demonstrating submittal conformance with the grading shown on the approved TTM	Prior to the issuance of a grading permit	County of Orange Director of Planning & Development Services Subdivision Committee review for substantial conformance, if required	
SC 4.4-3 Prior to the recordation of a	Recordation of a letter of	Prior to the recordation of	County of Orange	
subdivision map or prior to the issuance of	consent from affected	a subdivision map or prior	Director of Planning	L

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
any grading permit, whichever comes first, and if determined necessary by the County of Orange Manager, Subdivision and Grading, the applicant shall record a letter of consent from the affected property owners permitting off-site grading, cross lot drainage, drainage diversions and/or unnatural concentrations. The applicant shall obtain approval of the form of the letter of consent from the Manager, Subdivision and Grading Services before recordation of the letter. (County of Orange Standard Condition of Approval, G04)	property owners if determined necessary by County of Orange Director of Planning & Development Services	to issuance of a Grading Permit, whichever comes first	& Development Services	
SC 4.4-4 Prior to issuance of grading permits, the Manager of Subdivision and Grading shall determine that the proposed grading is consistent with the grading depicted within the approved planning application. (County of Orange Standard Condition of Approval, G09)	Approval of grading plan	Prior to the issuance of grading permits	County of Orange Director of Planning & Development Services	
SC 4.4-5 The proposed development shall be designed in compliance with the Uniform Building Code (UBC), accepted industry standards, and the County's earthquake safety Municipal Code requirements.	Verification of design development compliance with the UBC and Municipal Code requirements	Prior to the issuance of building permits	County of Orange Director of Planning & Development Services	
MM 4.4-1 Prior to the approval of the first tentative tract map in each Planning Area, the applicant shall submit a geotechnical report to the Deputy Director, Planning and Development Services, for approval. The report shall meet the requirements outlined in the County of Orange Grading Code and Manual, and as appropriate, shall adequately address each of the following issues to the satisfaction of the Deputy Director, Planning and Development Services:	Submittal of satisfactory of geotechnical report	Prior to the approval of the first tentative tract map in each Planning Area	County of Orange Director of Planning & Development Services	
a. Locate, define and map the activity status of any faults within the development area of the project site, and if any active faults are encountered, determine the appropriate structural setbacks.				

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
b.	Identify and map areas where grading activities may encounter unconsolidated soils (e.g., alluvial deposits, colluvium, native soil, debris flow deposits, etc.) susceptible to soil creep, liquefaction, landslides, or settlement. Define specific measures to be taken when such soils are encountered during grading (i.e., removal and replacement with compacted fill, slope stabilization, etc.).				
с.	Identify and map areas where fill is to be placed on top of unconsolidated soils (e.g., alluvium, colluvium, landslide debris, etc.). Define specific measures to be taken when such fills are anticipated during grading (i.e., removal and re- compaction of unconsolidated soils, settlement monitoring in deep canyon areas, etc.).				
d.	Locate and map all landslides within the development area of the project site and evaluate the lateral extent, depth and potential instability as a result of grading and the potential effects of settlement due to fill loads. Define specific measures to be taken during grading (i.e., bury under proposed fills, complete or partial removal, slope stabilization, avoidance, etc.).				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
e. Identify and map areas susceptible to debris flows and surficial slumping, including potential debris flow volumes. Define specific measures to be taken during grading (i.e., removal during mass grading, containment within a debris basin, etc.).				
Identify and map areas susceptible to expansive soils. Define specific measures to be taken during grading (i.e., pre-saturation of expansive soils during construction, reinforcement of building foundations and concrete slabs, removal and replacement with non-expansive granular soil beneath structures, etc.).				
MM 4.4-2 Prior to issuance of grading permit_for Planning Area 9, the applicant shall submit a geotechnical report to the Deputy Director, Planning and Development Services, for approval, and demonstrating that residential development shall be sited to avoid mapped landslides. The report shall meet the requirements outlined in the County of Orange Grading Code and Manual.	Submittal of satisfactory geotechnical report demonstrating that residential development shall be sited to avoid mapped landslides	Prior to issuance of a grading permit for development in PA 9	County of Orange Director of Planning & Development Services	
WATER RESOURCES	L	l,	· · · · · · · · · · · · · · · · · · ·	
PDF 4.5-1 Site Design Watershed Planning Principles. Land use planning guidance criteria were developed as part of the NCCP/HCP and SAMP/MSAA processes to assist in preserving the existing hydrologic functions within the watershed. These principles (the Watershed Planning	Verification of design development consistency with the Draft NCCP/HCP and SAMP/MSAA (as applicable at the time of area plan approval)	Prior to approval of Master Area Plans and Subarea Plans	County of Orange Manager of Flood Control	
Principles (the Watershed Flamming Principles) were utilized as a framework to assist in planning the project to minimize project hydrologic impacts and to preserve the natural water resources.			Area Plans are reviewed by Planning Commission	
PDF 4.5-2 Flood Control Detention Facilities. Dedicated areas are to be provided throughout the project area to	Approval of Runoff Management Plan (ROMP) (Master Area Plans)	Prior to approval of Master Area Plans and Subarea Plans	County of Orange Manager of Flood Control	
provide sufficient storage for runoff volumes to mitigate increases in peak discharges and	Submittal of documentation of		Area Plans are	

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	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
	t impacts of existing development.	compliance with the approved ROMP (Subarea Plans)		reviewed by Planning Commission	
Plan. A Manage been de complia Manage County	5-3 Water Quality Management A conceptual Water Quality ement Plan (the <i>Draft WQMP</i>) has eveloped for the proposed project in ance with the Model Water Quality ement Plan requirements of the of Orange DAMP. The <i>Draft WQMP</i> ses the following elements:	Approval of conceptual Water Quality Management Plan (WQMP)	Approved in conjunction with certification the Final Program EIR	County of Orange Manager, RDMD Watershed Group	
ha cre pre	te-design BMPs: Site design BMPs we been selected to address the eation of a hydrologically functional oject design that seeks to mimic the tural hydrologic regime.				
BN rot ind ha co sy	Durce Control BMPs: Source controls MPs (routine non-structural BMPs, utine structural BMPs, and BMPs for dividual categories/project features) ave been selected, including a ombined flow and water quality control rstem to address hydrologic water alance and water quality treatment.				
EI du co sy	rban Runoff and Stormwater Control ements: Water balance and flow uration analyses and conceptual ombined flow and water quality control vstems have been prepared for each ub-basin.				
M ar de el G Ad	tormwater BMP Operation and aintenance Program: An operation nd maintenance program has been eveloped to address the following ements: Maintenance Responsibility, eneral Operation and Maintenance ctivities, Routine Operation and aintenance Activities and Major				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
Operation and Maintenance Activities.				
• Stormwater Monitoring Program: A stormwater monitoring program has been developed for the Water Quality BMPs.				
PDF 4.5-4 Water Conservation. Water captured in the combined flow and water quality control system and in flood control detention facilities, where possible, will be percolated, infiltrated and/or re-captured for re-use as a supplemental source of irrigation water.	Submittal of approved documentation of design compliance with Conceptual WQMP	Prior to Master Area Plan Approval	County of Orange Manager of Flood Control/ Manager, RDMD Watershed Group Area Plans are reviewed by Planning Commission	
SC 4.5-1 Drainage Study. Prior to the recordation of a subdivision map (except maps for financing and conveyance purposes only) or prior to the issuance of any grading permits, whichever comes first, the following drainage studies shall be submitted to and approved by the Manager, Subdivision and Grading:	Submittal of satisfactory of drainage study	Prior to recordation of a Subdivision Map or issuance of a Grading Permit, whichever comes first	County of Orange Director of Planning & Development Services	
A. A drainage study of the project including diversions, off-site areas that drain onto and/or through the project, and justification of any diversions; and				
B. When applicable, a drainage study evidencing that proposed drainage patterns will not overload existing storm drains; and				
C. Detailed drainage studies indicating how the project grading, in conjunction with the drainage conveyance systems including applicable swales, channels, street flows, catch basins, storm drains, and flood water retarding, will allow building pads to be safe from inundation from rainfall runoff which may be expected from all storms up to and including the theoretical 100-year flood.				

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
SC A.		Approval of storm drain drainage plans and offer(s) of dedication, if necessary	Prior to recordation of a Subdivision Map or Issuance of a Grading Permit, whichever comes first	County of Orange Director of Planning & Development Services	
	 Design provisions for surface drainage; and 				
	 Design all necessary storm drain facilities extending to a satisfactory point of disposal for the proper control and disposal of storm runoff; and 				
	 Dedicate the associated easements to the County of Orange, if determined necessary. 				
В.	Prior to the recordation of a subdivision map (except maps for financing and conveyance purposes only) or prior to the issuance of any certificates of use and occupancy, whichever occurs first, said improvements shall be constructed in a manner meeting the approval of the Manager, Construction.	Verification of construction of drainage improvement	Prior to recordation of a Subdivision Map or Issuance of a Certificate of Use and Occupancy, whichever comes first	County of Orange Manager of Construction	
SC	C 4.5-3 Drainage Improvements				
A.	Prior to the issuance of any grading permits, the applicant shall in a manner meeting the approval of the Manager, Subdivision and Grading:	Submittal of satisfactory drainage plans	Prior to the issuance of Grading Permits	County of Orange Director of Planning & Development Services	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
 Design provisions for surface drainage; and 				
 Design all necessary storm drain facilities extending to a satisfactory point of disposal for the proper control and disposal of storm runoff; and 				
 Dedicate the associated easements to the County of Orange, if determined necessary. 				
B. Prior to the issuance of any certificates of use and occupancy, said improvements shall be constructed in a manner meeting the approval of the Manager, Construction.	Verification of installation of drainage improvement	Prior to the issuance of Certificates of Use and Occupancy	County of Orange Manager of Construction	
SC 4.5-4 Master Plan of Drainage. Prior to the recordation of a subdivision map (except maps for financing and conveyance purposes only), the subdivider shall participate in the applicable Master Plan of Drainage in a manner meeting the approval of the Manager, Subdivision and Grading, including payment of fees and the construction of the necessary facilities.	Verification of participation in Master Plan of Drainage (fees and/or improvements)	Prior to the recordation of a Subdivision Map	County of Orange Director of Planning & Development Services	
SC 4.5-5 Subordination of Easements. Prior to the recordation of a subdivision map (except maps for financing and conveyance purposes only), the subdivider shall not grant any easements over any property subject to a requirement of dedication or irrevocable offer to the County of Orange or the Orange County Flood Control District, unless such easements are expressly made subordinate to the easements to be offered for dedication to the County. Prior to granting any of said easements, the subdivider shall furnish a copy of the proposed easement to the Manager, Subdivision and Grading, for review and approval. The Santa Margarita Water District would restore other improvements or	Verification that any granted easements are subordinate to easements offered to County and provision of copy of said easement(s)	Prior to the recordation of a Subdivision Map	County of Orange Director of Planning & Development Services (Orange County Flood Control District and Santa Margarita Water District)	

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Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
facilities located within the easement, if it has consented to the location of such improvements or facilities to the extent that the exercise of its rights in connecting with the easement impacts other improvements of facilities located within the easement; however, in no event shall Santa Margarita Water District be responsible for the cost of relocating its facilities in event of conflicts with				
such improvements or facilities. SC 4.5-6 Regional Facility Improvements. Prior to the recordation of a subdivision map, the applicant shall improve Regional Facility by the construction of and dedicate right-of-way to the Orange County Flood Control District in a manner meeting the approval of the Manager, Subdivision and Grading.	Verification of construction and/or offer(s) of dedication for flood control improvements	Prior to the recordation of a Subdivision Map	County of Orange Director of Planning & Development Services (Orange County Flood Control District)	
SC 4.5-7 Runoff Management Plan . Prior to the issuance of any grading permits, applicant shall submit a Runoff Management Plan (RMP) to the Manager, Subdivision and Grading for review and approval.	Submittal of satisfactory Runoff Management Plan	Prior to the recordation of a Subdivision Map	County of Orange Director of Planning & Development Services	
SC 4.5-8 Water Quality Management Plan. Prior to the recordation of any final subdivision map (except those maps for financing or conveyance purposes only) or the issuance of any grading or building permit (whichever comes first), the applicant shall submit for review and approval by the Manager, Inspection Services Division, a Water Quality Management Plan (WQMP) specifically identifying Best Management Practices (BMPs) that will be used onsite to control predictable pollutant runoff. This WQMP shall identify, at a minimum, the routine structural and non-structural measures specified in the current Drainage	Submittal of satisfactory Water Quality Management Plan	Prior to the recordation of a Subdivision Map or the issuance of any Grading of Building Permit, whichever comes first	County of Orange Director of Planning & Development Services	

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Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
Area Management Plan (DAMP). The WQMP may include one or more of the following:				
 Discuss regional water quality and/or watershed programs (if available for the project); 				
 Address Site Design BMPs (as applicable) such as minimizing impervious areas, maximizing permeability, minimizing directly connected impervious areas, creating reduced or "zero discharge" areas, and conserving natural areas; 				
Include the applicable Routine Source Control BMPs as defined in the DAMP.				
Demonstrate how surface runoff and subsurface drainage shall be managed and directed to the nearest acceptable drainage facility (as applicable), via sump pumps if necessary.				
SC 4.5-9 Compliance with the WQMP . Prior to the issuance of a certificate of use and occupancy, the applicant shall demonstrate compliance with the WQMP in a manner meeting the satisfaction of the Manager, Inspection Services Division, including:	Verification of compliance with Water Quality Management Plan	Prior to the issuance of a Certificate of Use and Occupancy	County of Orange Manager of Building Inspection	
Demonstrate that all structural Best Management Practices (BMPs) described in the project's WQMP have been implemented, constructed and installed in conformance with approved plans and specifications;				
Demonstrate that the applicant has complied with all non-structural BMPs described in the project's WQMP;				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
 Submit for review and approval an Operations and Maintenance (O&M) Plan for all structural BMPs for attachment to the WQMP; 				
 Demonstrate that copies of the project's approved WQMP (with attached O&M Plan) are available for each of the incoming occupants; 				
• Agree to pay for a Special Investigation from the County of Orange for a date (12) twelve months after the issuance of a Certificate of Use and Occupancy for the project to verify compliance with the approved WQMP and O&M Plan; and				
• Demonstrate that the applicant has agreed to and recorded one of the following: 1) the CC&R's (that must include the approved WQMP and O&M Plan) for the project Home Owner's Association; 2) a water quality implementation agreement that has the approved WQMP and O&M Plan attached; or 3) the final approved Water Quality Management Plan (WQMP) and Operations and Maintenance (O&M) Plan.				
SC 4.5-10 Stormwater Pollution Prevention Plan. Prior to the issuance of any grading or building permits, the applicant shall demonstrate compliance under California's General Permit for Stormwater Discharges Associated with Construction Activity by providing a copy of the Notice of Intent (NOI) submitted to the State Water Resources Control Board and a copy of the subsequent notification of the issuance of a Waste Discharge Identification (WDID) Number or other proof of filing in a manner meeting the satisfaction of the Manager, Building Permit Services. Projects subject to	Provision of Notice of Intent and verification of a copy of the Storm Water Pollution Prevention Plan (SWPPP); at the project site	Prior to the issuance of any Grading or Building Permits	County of Orange Manager of Building Inspection (Regional Water Quality Control Board)	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
this requirement shall prepare and implement				
a Stormwater Pollution Prevention Plan				
(SWPPP). A copy of the current SWPPP				
shall be kept at the project site and be				
available for County review on request.			1	
SC 4.5-11 Erosion and Sediment Control	Submittal of satisfactory	Prior to the issuance of	County of Orange	
Plan. Prior to the issuance of any grading or	Erosion and Sediment	any Grading or Building	Manager of Building	
building permit, the applicant shall submit a	Control Plan (ESCP);	Permits	Permits	
Erosion and Sediment Control Plan (ESCP)	verification of copy of ESCP			
in a manner meeting approval of the	at project site			
Manager, Building Permit Services, to	• •			
demonstrate compliance with local and state				
water quality regulations for grading and	,	E		
construction activities. The ESCP shall	8			
identify how all construction materials,				
wastes, grading or demolition debris, and				
stockpiles of soil, aggregates, soil				
amendments, etc. shall be properly covered,	1			
stored, and secured to prevent transport into				
local drainages or coastal waters by wind,				
rain, tracking, tidal erosion or dispersion. The				
ESCP shall also describe how the applicant				
will ensure that all BMPs will be maintained				
during construction of any future public right-				
of-ways. A copy of the current ESCP shall be				
kept at the project site and be available for				
County review on request.				
SC 4.5-12 Development Within Floodplain.	Submittal of a CLOMR and	Prior to recordation of a	County of Orange	
Prior to the recordation of a subdivision map	three sets of calculations	subdivision map (except	Director of Planning	
(except maps for financing and conveyance		for financing purposes) or	& Development	
purposes only) or the issuance of any grading		issuance of any grading	Services	
or building permits, whichever occurs first,		permit or building permit,		
within the FP-2 Zoning District, the applicant		whichever comes first		
shall submit all of the necessary documents	1			
to the Federal Emergency Management				
Agency (FEMA) to receive a Conditional				
Letter of Map Revision (CLOMR) of the Flood				
Insurance Rate Map (FIRM). Concurrently,				
the applicant shall submit to the Manager,				-
Subdivision and Grading, three (3) sets of the				
calculations and plans showing the method of				
satisfying FEMA and FP-2 Zoning District				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
Regulations, all in a manner meeting the approval of the Manager, Subdivision and Grading.				
MM 4.5-1 Runoff Management Plan. Prior to the approval of the first Area Plan, or other planning level approval, for any part of the Ranch, the applicant shall prepare a detailed Runoff Management Plan ("ROMP") that shall be approved by the Manager, Flood Control Division, and the Manager, Watershed and Coastal Resources Division, and that meets the following standards and specifications:	Submittal of satisfactory Runoff Management Plan with verification of subsequent implementing actions	Prior to the approval of the Master Area Plan or any Subarea Plans	County of Orange Manager of Flood Control and County of Orange Manager of Watershed and Coastal Resources	
a. The ROMP shall cover the entire Ranch within the regional watersheds (San Juan Creek and San Mateo Creek) and sub- watersheds affected by the Area Plan or other planning level approval, and shall be consistent with Orange County criteria including the Orange County Hydrology Manual and its addendum ("OCHM), the Orange County Flood Control Design Manual ("FCDM), and any other County criteria and/or standards that are applicable.				
b. The ROMP shall separately cover the San Juan Creek watershed or the San Mateo Creek watershed, depending on the Ranch Plan development proposed and the regional and sub-watershed(s) affected. For the San Juan Creek watershed, the ROMP shall extend to the downstream boundary of the Ranch. For the San Mateo Creek watershed, the ROMP shall extend to the County border for those portions of the Ranch Plan area that are located within the watershed.			·	
 c. The ROMP shall be separate from the preliminary analyses submitted as part of the GPA/ZC submittals using the U.S. Army Corps of Engineers HEC-1 				

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
	hydrology application.	······································			
d.	The ROMP shall be accomplished to a greater level of detail using criteria established by the OCHM and the FCDM.				
e.	The ROMP shall re-evaluate and verify baseline conditions, project conditions for all phases of development, post-project conditions, impacts of the development through all phases and scenarios of development, and mitigation measures needed to ameliorate development impacts through all the phases and scenarios of development (including the full Ranch Plan development) within the affected watershed(s), all accomplished to criteria established by the OCHM and FCDM.				
f.	The ROMP shall analyze existing conditions, potential impacts, and proposed mitigation measures for sediment mass balance, watershed sediment yield, sediment transport and the stability of the creek and watersheds and/or increased erosion potential and other hydraulic characteristics of the creeks and watersheds (San Juan Creek and San Mateo Creek) within the project site and off-site to the La Novia Bridge for development within the San Juan Creek watershed and to the County boundary for development within the San Mateo Creek watershed for all phases of the development.				
g.	The ROMP shall analyze and demonstrate that development of the Ranch Plan will not produce adverse impacts during 2-, 5-, 10-, 25-, 50- and 100-year events, including but not limited			Area Plans are reviewed by Planning Commission	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
to increases in runoff peak discharge, increases in runoff volume, channel aggradation/degradation, erosion and channel stability within the project site and off-site from the headwaters of the watershed to the La Novia Bridge for development within the San Juan Creek watershed, and to the County boundary for development within the San Mateo watershed for portions of the streamcourse potentially impacted by the project development. The analyses set forth in the ROMP shall be for existing conditions and for all phases of development, including with and without required mitigation measures.				
h. The ROMP shall analyze in sufficient detail to enable the size and alignment of flood control and storm drain facilities, and site selection choices for the retarding basins, water quality detention basins and other mitigation measures to be more precisely evaluated and established. The ROMP should include the preparation of a water quality site design BMP concept plan. The applicant shall work with the County to provide the level of design detail in these facilities that is appropriate to the level of planning and approval at each project phase.				

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
	The ROMP shall include details as to the proposed future ownerships and maintenance responsibilities, and long term funding (including funding plans for maintenance) for the proposed ROMP flood control and storm drain facilities, retarding basins, and water quality detention basins.				
j.	The ROMP shall include proposed Orange County Flood Control District (OCFCD) and/or County ownership facilities identified in sufficient detail with proposed configuration, sizes, alignment, rights-of-way widths, etc. for review and approval during the ROMP review process as to whether the ownership of proposed flood control/drainage facilities are to become OCFCD or County facilities.				
k.	The ROMP shall provide that any proposed diversions between watersheds shall be subject to the approval of the Manager, Flood Control Division.				
۱.	The ROMP shall provide that any future revisions to the ROMP in order to accommodate land use changes or other issues that have the potential of modifying or invalidating previous conclusions regarding peak discharges and runoff volumes shall require the approval of the Manager, Flood Control Division.				
m.	Consistent with the ROMP, and in order to mitigate project impacts on channel stability and erosion, the applicant shall implement a monitoring and accompanying mitigation program that provides, among other things, assurance				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
for provisions of dedication of any lands				
needed within the Ranch to accomplish				
necessary mitigations, if any. Said				
monitoring and mitigation program shall				
be subject to the approval of the		,		
Manager, Flood Control Division.				
Monitoring for project impacts shall be				
conducted for San Juan Creek and its				
major tributaries within and downstream				
of the Ranch to the La Novia Bridge; if				
the San Mateo Creek watershed is				
affected, the monitoring shall cover those				
portions of San Mateo Creek and its				
major tributaries that are within the]		
County and that are likely to be impacted				
by the project. The monitoring activities				
shall continue during the project				
development phases and shall extend for				
a period of 10 years following the				
completion of the final grading of the last				
planning area of the Ranch Plan that				
includes at least two (2) storm events				
that generate discharges of at least 20				
percent of computed 100-year high				
confidence discharges, all in a manner				
meeting the approval of the Manager,				
Flood Control Division. The				
accompanying mitigation program shall				
be based on a detailed study of the				
watershed and data collected from the				
monitoring program funded by the		1		
applicant. Said mitigation program shall				
be in addition to the mitigation measures				
(e.g., construction of flood control				
structures, setting up funds through				
bonds) formulated in the ROMP for items				
that are found to be not adequately				
mitigating development-related impacts.				
The applicant and the County/OCFCD				
will meet in good faith to formulate a plan				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
for remediating and/or improving any under-performing mitigation measures, all at no cost to the County/OCFCD.				
 n. If a Locally Preferred Plan (LPP) is developed that contemplates or otherwise assumes Ranch Plan development within the San Juan Creek watershed, the County and the applicant may pursue an alternative mitigation measure strategy based on the LPP that includes (i) mitigation measures within the Ranch and (ii) participation in offsite mitigation measures to the extent that said alternative mitigation measures are determined to be consistent with (a) the objectives of the County's Drainage Area Master Plan for water quality purposes, the (b) the ROMP and (c) the MPD. MM 4.5-2 Master Plan of Drainage. Prior to the approval of the first Master Area Plan (or other planning level approval) covering any portion of the Ranch, the applicant shall 	Submittal of satisfactory Master Plan of Drainage	Prior to the approval of the first Master Area Plan	County of Orange Manager of Flood Control	
portion of the Ranch, the applicant shall prepare a Master Plan of Drainage ("MPD") that (i) is in a manner receiving the approval of the Manager, Flood Control Division and the Manager, Watershed and Coastal Resources Division and (ii) shows all flood control, storm drain, and water quality features within the affected watershed(s).			and County of Orange Manager of Watershed and Coastal Resources Area Plans are reviewed by Planning Commission	
MM 4.5-3 Master Area Plan-Level Water Quality Management Plan. Prior to the approval of a Master Area Plan for each Planning Area, the applicant shall prepare a Master Area Plan WQMP that (i) is consistent with the terms and content of the Draft WQMP (see PDF 4.5-3) and (ii) provides	Submittal of satisfactory Master Area Plan Water Quality Management Plan	Prior to the approval of a Master Area Plan for each Planning Area	County of Orange Manager of Flood Control and	
more particularized information and detail concerning how the provisions of the Draft			County of Orange Manager of	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
WQMP will be implemented within the area	· ·		Watershed and	
covered by the individual Master Area Plan.			Coastal Resources	
At a minimum, each Master Area Plan				
WQMP will provide supplemental and refined				
information concerning (i) how site-design,			Area Plans are	
source-control and treatment control BMPs			reviewed by	
will be implemented at the Master Area Plan			Planning	
level for the area in question, (ii) potential			Commission	
facility sizing and location within the subject				
Master Area Plan area, and (iii) monitoring,				
operation and maintenance of stormwater				
BMPs within the relevant Master Area Plan				
area.				
MM 4.5-4 Sub-Area Plan-Level Water	Submittal of satisfactory	Prior to approval of	County of Orange	
Quality Management Plan. Prior to the	Water Quality Management	Subarea Plan for any	Manager of Flood	
approval of a Sub-Area Plan for any portion	Plan	portion of the project area	Control	
of the project area that is the subject of an		and after approval of	and	
approved Master Area Plan, the applicant		Master Area Plan		
shall prepare a Sub-Area Plan WQMP that (i)			County of Orange	
is consistent with the terms and content of the			Manager of	
Draft WQMP (see PDF 4.5-3), (ii) is			Watershed and	
consistent with the terms and content of the			Coastal Resources	
relevant Master Area Plan WQMP (see MM 4.5-3) and (iii) provides more particularized			Area Plans are	
information and detail concerning how the			reviewed by	
provisions of the Draft WQMP and the			Planning	
relevant Master Area Plan WQMP will be			Commission	
implemented within the area covered by the				
individual Sub-Area Plan. At a minimum,				
each Sub-Area Plan WQMP will provide				
supplemental and refined information				
concerning (i) how site-design, source-control				
and treatment control BMPs will be				
implemented at the Sub-Area Plan level for				
the area in question, (ii) the size, location and				
design features of the individual water				
resource facilities to be developed within the				
subject Sub-Area Plan area, and (iii)				
monitoring, operation and maintenance of the				
stormwater BMPs within the relevant Sub-				
Area Plan area.				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
MM 4.5-5 Flood Control Detention	Verification of construction/	Prior to the construction of	County of Orange	
Facilities. As appropriate during Ranch Plan	implementation of flood	flood control detention	Manager of Flood	
development process, the applicant will be	control detention facilities;	facilities	Control in	
required to construct and implement flood	Approved monitoring program		conjunction with	
control detention facilities to provide	to track the performance of		Orange County	
hydrologic mitigation for increases in peak	detention facilities		Vector Control	
discharges. Detention facilities will be				
located at the lower end of each of the major				
developed planning areas as necessary				
within the Ranch Plan project. While the			1	
specific design and characteristics of each				
basin will be refined during the project design				
process, planning level information is				
provided in this section to characterize the				
facilities and their functions. Initial basin				
locations are shown on Exhibit 4.5-13 for the				
Ranch Plan. The specific number, size and				
locations of the basins will be determined			i i i i i i i i i i i i i i i i i i i	
during the ROMP process. Further		1		
refinement may be achieved during the				
design process. Table 4.5-27 provides an				
initial estimate of the range of storage				
volumes that may be required in each of the				
major planning areas. Refined design and				
analysis of the basins needs to ensure that				
these facilities mitigate regional flood control				
facility impacts and address uncertainties				
such as timing of hydrograph peaks and the				
interaction with other elements within the				
watershed drainage network.				
The detention begins will be designed as "off				
The detention basins will be designed as "off-				
line" from most of the major stream channels.				
It is initially planned that the Gobernadora detention basin would be located within the				
channel and designed as a "flow through"				
basin. Generally speaking, flow from the				
development areas will be routed through the				
basins prior to discharge to the mainstem				
stream channels. By contrast, flows from				
undeveloped areas will not be routed through				
the basins, but will generally follow existing				
the basins, but will generally follow existing		<u> </u>	<u> </u>	1

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
drainages directly to the main channels.				
The basins will be designed to include an				
initial forebay area for trapping of sediment,				
floating debris etc). The sediment forebay				
will be designed for easy maintenance, with				
an elongated shape maximize the opportunity				
for sediment (and pollutants adsorbed to the				
sediment particles) to settle out, and to allow				
easy sediment removal by an excavator on				
the access road. Maintenance standards will				
be established for maximum depth of				
accumulated sediment in the forebay basins				
prior to removal. An overflow weir will			1	
connect the forebay to the main detention				
facility. This larger facility will include the		1		
entrance zone, the main storage area and the outlet structure. The basin will have sloped,				
vegetated sides, a perimeter access road,				
and a ramp access to the basin floor. The				
entire detention facility will be fenced to				
preclude public access. The floor of the				
basin will likely be colonized by emergent		1		
vegetation. This can provide additional water				
quality improvement of urban runoff, and				
evaporation potential during the dry season.				
In addition, this vegetation will provide				
incidental avian and wildlife habitat.				
However, the primary intent of the structures				
is to provide sediment trapping in the forebay,				
and flood detention in the main basin. As				
such, maintenance protocols and regulatory				
permits should be established prior to the				
design process to facilitate the required				
periodic sediment removal and facility maintenance.				
maintenere.				
The outlet structure will be configured to				
control a wide range of flows, providing flow				
management from the 2- to 100-year flow				
event. It will also include an overflow				
spillway, designed to safely convey floods in		1		1

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
to th	ess of the outlet structure capacity directly ne stream. A subdrain will be provided to ire complete drainage within several days owing a flow event.				
of the of a program of the program of a prog	ey element in the long-term effectiveness ne detention facilities is the establishment n on-going maintenance and monitoring gram. The applicant will establish both a nagement entity and a funding source to are the implementation of a program to complish the following goals:				
•	Monitoring: The monitoring program will track the performance of the detention facilities as well as the stability of the various stream channels within and downstream of the Ranch Plan project (to La Novia Bridge for San Juan Creek and to County border for San Mateo Creek). The monitoring will serve to identify the regular maintenance needs of the facilities as well as track any emerging problems with erosion or sedimentation in the stream channels. The monitoring shall be in a manner receiving the approval of the County/OCFCD.				
•	Detention basin maintenance will include:				
	Identifying the rate of sediment buildup in the forebay or in the main facility and provision for sediment removal when the accumulated sediment reaches a specified depth. The initial sizing criteria for basin volume will include provision for this loss of storage during the period of sediment accumulation.				

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
	Emergent Vegetation Management: A vegetation management plan will be specified for all of the structural elements of the flood detention system. The applicant will work with the County to identify elements of the detention basin that can accommodate some vegetation (for example if water quality ponds are included in the facility, vegetation criteria will be developed for these). Based on County recommendations, vegetation will be precluded from the active flood detention basins to facilitate sediment removal activities.				
•	Vector/Nuisance Management: The design and maintenance of the basins will include prevention of vector problems such as mosquitoes, rodents, algal blooms, etc.				
•	Structural Components: The basin inlet and outlet structures will require periodic maintenance to remove accumulated debris and replacement of damaged or aging elements. If the basins include a water recovery program (i.e., use of detained or infiltrated water for irrigation), the pumps and associated facilities (screens, pipes, valves) will require ongoing monitoring/maintenance.				
	Facility Appearance/Landscaping: The detention basins will be large elements situated at visible locations within the development areas. As such their design and maintenance are important from an aesthetic perspective. The perimeter fencing, access roads and landscaping, on the basin side slopes will require ongoing irrigation and upkeep to insure that the basins represent visually				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
appealing facilities. The basins will be designed to meet the County of Orange design requirements.				
MM 4.5-6 Combined Flow and Water Quality Control System . All developments will be designed in order to achieve flow duration matching, address the water balance, and provide for water quality treatment through a combined flow and water quality control system (termed combined control system).	Combined Flow and Water Quality System as set forth in the Master WQMP and Subarea Plan WQMPs	In conjunction with Master and Subarea Plans	County of Orange Manager of Flood Control in conjunction with County of Orange Manager of Watershed & Coastal Resources	
Combined Control System Components			Area Plans are reviewed by	
The proposed combined control system will include one or more of the following components (see Exhibits 4.5-14, 15 and 16), each of which provides an important function to the system:			Planning Commission	
 Flow Duration Control and Water Quality Treatment (FD/WQ) Basin 				
Infiltration Basin				
Bioinfiltration Swale				
Storage Facility for Recycling Water for Non-Domestic Supply				
Diversion Conduit to Export Excess Flows out of the Sub-basin.				
The flow duration control and water quality treatment basin provides the initial flow and water quality treatment control functions to the system. The remaining components address the excess flows, alone or in combination with each other, generated during wet weather. Additional water quality treatment control is also provided in the infiltration basin and bioinfiltration swale. The				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
following sub-sections describe each combined control system component in more detail.				
1. Flow Duration Control and Water Quality Treatment (FD/WQ) Basin				
The flow duration control and water quality treatment (FD/WQ) basin will provide both flow control and water quality treatment in the same basin. Detention basins are the most common means of meeting flow control requirements. The concept of detention is to collect runoff from a developed area and release it at a slower rate than it enters the collection system. The reduced release rate requires temporary storage of the excess amounts in a basin with release occurring over a few hours or days. The volume of storage needed is dependent on 1) the size of the drainage area; 2) the extent of disturbance of the natural vegetation, topography and soils, and creation of impervious surfaces that drain to the stormwater collection system; 3) the desired detention capacity/time for water quality treatment purposes; and 4) how rapidly the water is allowed to leave the FD/WQ basin, i.e., the target release rates.				
The FD/WQ basin shall incorporate extended detention to provide water quality treatment for storm flows. The FD/WQ basin shall also incorporate wetland vegetation in a low flow channel along the bottom of the basin for the treatment of dry weather flows and small storm events.				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
To the extent feasible depending on the topography and grade, the FD/WQ basin will be located in areas where there is a larger depth to groundwater and more infiltrative soils. The FD/WQ basin shall be designed to have two active volumes, a low flow volume and a high flow volume. The low flow volume is designed to capture small to moderate size storms, the initial portions of larger storms, and dry weather flows. The high flow volume is designed to store and release higher flows to maintain, to the extent possible, the pre-development runoff conditions.				
2. Infiltration Basin The second element in the combined control system shall consist of a separate downstream, shallow basin designed to infiltrate stormwater where soils have a high infiltration capacity. The infiltration basin is sized to infiltrate all the flows released from the lower volume in the FD/WQ basin; nonetheless, an overflow system would convey excess flows that may occur during very wet years to the bioinfiltration swale discussed below. Features of the proposed combined control system that shall guard against groundwater contamination include: (1) pretreatment of all runoff in a FD/WQ basin before it enters the infiltration basin, and (2) locating infiltration basins where there is at least 10 feet of separation to the groundwater.				

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	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
<u>3.</u>	Bio-infiltration Swale				
	The third element of the combined control system shall be a bio-infiltration swale that leads from the FD/WQ basin to the stream channel. A bio-infiltration swale is a relatively flat, shallow vegetated conveyance channel that removes pollutants through infiltration, soil adsorption, and uptake by the vegetation. In areas characterized by terrains with good infiltration capabilities, flows released from the FD/WQ basin and carried in the bio-infiltration swale will mimic pre-development conditions, in which low flows infiltrate in the soils and only high flows reach the main stem of the stream channel. In catchments where development is located on less pervious soils and therefore pre-development runoff is higher, the swale may be lined to better mimic pre-development hydrology or flows may be piped to the stream.				
4	Storage Facility for Recycling Water for Non-Domestic Supply				
	The fourth possible element of the combined control system shall be storage of surface water flows for recycling where there is opportunity for reuse of water for irrigation, such as a golf course, residential common area, or local park. All elements of the combined flow and water quality control system shall be reviewed with the SMWD for determination of feasibility of reuse and connection to non-domestic irrigation facilities. Diversion of outflows from the FD/WQ basin to non-domestic water supply reservoirs will be conducted if feasible and cost effective.				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
5. Diversion Conduit to Export Flows out of			· · ·	
the Sub-basin				
The fifth possible element of the combined control system shall be the provision to export flows out of the sub- basin. This element provides an additional option that may be employed to better preserve the pre-development water balance within the sub-basin. Such diversions may be desirable where excess runoff could result in increased stormwater flows or increased base flows in sensitive streams. However, all diversions of drainage area are subject to approval by the County of Orange. The diversions would be for excess runoff only and would only be feasible for development bubbles that adjoin other sub-basins having less sensitive stream channels, or are close to San Juan Creek or Lower Cristianitos Creek, which have characteristics that allow them to handle additional flows without causing damage to the stream channel. In some locations, such as Cañada Chiquita, it may also be feasible to divert flows to the wastewater				
treatment plant for reclamation.				
MM 4.5-7 Stream Stabilization Program. Prior to the recordation of a subdivision map, unless otherwise specified by the provisions of the applicable master area or planning area-specific ROMPs (as appropriate), the development applicant shall prepare a stream stabilization program, including funding, that will be implemented by the HOA or other responsible entity to mitigate anticipated limited local effects of erosion associated with drainage system outlets from the development or downstream of detention basins. These effects from erosion are to be addressed with non-structural biotechnical	Submittal of satisfactory Stream Stabilization Program, including funding	Prior to recordation of a subdivision map	County of Orange Manager of Watershed & Coastal Resources	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
and geomorphic approaches aggressively at the first phase and if not effective then limited structural measures would be implemented. These approaches vary by terrain and the character of the channels:				
 Sandy and Silty-sandy terrain: Water quality and infiltration basins and ponds will be constructed along unnamed tributary channels and channel-less valleys. Appropriate energy dissipation will be installed downstream of each structure or control point. 'Hungry water' or potential downcutting will be controlled by a progressive sequence of: 				
a. establishment of hydrophytic vegetation, either turf-forming (such as salt grass or sedges) or with interpenetrating roots (such as willows); then				
 b. placement of turf-reinforced mats (TRM) or other flexible and biodegradable membrane to abet vegetative growth to stabilizes the small drainages downstream of controls; then, 				
c. conventional erosion control fabrics and structures using techniques developed over the years to control gully- or small-channel incision.				
In through-flowing named stream corridors, the potential scale of incision is larger, and is most reasonably addressed by a progressive sequence to include:				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
a. attempting to reduce runoff and peaks from the waters combination of additional re of flow and use of (reconne where needed) floodplains of moderate to high recurre	ned, by a etarding ecting, for flows			
 Reducing sediment yields f disturbed watershed upstree that avulsion (sudden chan changes, such as recently Gobernadora Creek) can b minimized. 	eam, such nel seen in			
c. Where the bed remains wit root zone of riparian vegets widening the riparian corric managing its vegetation to dense interpenetrating roo as naturally occurs along n reaches of these streams, in combination with reconfi channel pattern to increase to a stable thalweg length- channel slope value.	ation, lor, and promote ts, such nany perhaps guring the e sinuosity			
Emplacing well-keyed structural gra control, with a wide variety of poten designs.				
 Clayey terrain: Differences bet existing and future conditions v least in this terrain. Clayey terr also most resistant to incision, cases. Hence, biotechnical sta is most favored in this setting, of for the smaller unnamed chann downstream from the small retainfiltration basins proposed at r locations. A progressive seque 	vill be the rains are in most abilization especially nels arding and nany			

	tion Measure	Implementing Action	Time of Verification	Responsible Party	Status
riparian ve	ng hydrophytic or woody egetation, especially along and crests of banks;				
	turf-reinforcing mats and ar-resistant soft structures;				
feasible w strength ir	ening of channels where rithout diminishing bank mparted by riparian n, if significant; and	· · ·			
placing th controls, u a., b., and	ng slopes using fabrics, or oroughly-keyed structural usually in combination with d.c., above.				
Consistent with the applicable master a specific ROMPs (a monitoring program assured funding so at no cost to Coun- construction within include reporting re observe changes i stream system. Th	Monitoring Program. a provisions of the area or planning area- is appropriate), a stream in shall be developed, with burce, by the applicant, and ty/OCFCD, prior to the i the watershed which will equirements in order to in the natural alluvial the minimum program will ss the following items:	Submittal of satisfactory Stream Monitoring Program with reporting requirements	Prior to issuance of a grading permit	County of Orange Manager of Flood Control in conjunction with County of Orange Manager of Watershed and Coastal Resources	
engineer fami conveyance e conditions req needs and con concern will w named chann year in late Ap note bed cond marks, note n bank distress estimate Man key locations,	s: A geomorphologist or liar with both (a) flood estimation and (b) the bed quired to meet habitat nditions for species of valk critical reaches of els within the project each pril. The stream-walker will ditions, measure high-water ew sources of sediment or along the channels, ning's 'n' (roughness) at , and assess whether bed etation is suitable to meet			· · ·	

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
Stream 2, 3, 4, grading during seasor exceed nearby gauge. similar Bell Ca waters stream formall can se showir taken. walks knowle geolog individ by Jun specify measu	Mitigation Measure yance and habitat objectives. In walks will occur during years 1, 5, and 10 following substantial g in a named-stream basin, and any year within the first 10 Ins when 6-hour rainfall intensities d the 5-year recurrence at a y pre-selected recording rainfall the stream-walker will also ray canvass the lower 2 miles of anyon and the upper Chiquita shed north of Oso Parkway, two in segments with largely-intact and ly-preserved watersheds, which erve as control. Photographs ing key sites or problems will be The individual conducting the shall be sufficiently senior and edgeable as to be registered as a gist or engineer with the state. This tual will prepare an annual report ine 20 of the relevant year(s) ying maintenance or repair ures needed to maintain suitable event transport and bed conditions	Implementing Action			Status
Monur	Stream Cross Sections Monitoring. mented cross sections will be lished and surveyed on:				
a. lo	ower Narrow Creek				
b. C	Chiquita Creek (4 locations)				
c. G	Sobernadora Creek (4 locations)				
d. B	Bell Creek (2 locations)				
	Jpper Cristianitos Canyon (3 ocations)				
f. L	ower Gabino Creek (3 locations)				
g. G	Gabino Creek within 0.5 miles of La				

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
	Paz Creek	····		• • • • • • • • • • • • • • • • • • •	
	h. La Paz Creek within 0.6 miles of Gabino Creek				
	Additional monitoring sections will also be provided on San Juan Creek and all monitoring locations will first be approved by the County of Orange before implementation. The cross sections will be spaced approximately 0.6 to 1.2 miles apart and approved by the County. They will be surveyed to the nearest 0.05 feet vertical, and include notations of bed material encountered and qualitative descriptions of vegetation, and other observations conforming to geomorphic conventions, such as the International Hydrologic Vigil Network standards.				
	The initial surveys will be conducted prior to grading, with resurveys during years 1, 3, 5 and 10 following initial grading or at frequencies determined by the County of Orange. Re-surveys will also be conducted during years when 6-hour rainfall intensities exceed the 5-year recurrence at a nearby pre-selected recording rainfall gauge or selected occurrences by the County of Orange. Results will be analyzed by the stream- walker, and included in the related report, recommending maintenance and restorative measures. The report will be submitted by May 20 of each year, to allow design and implementation (where needed) prior to the next winter.				
3.	Periodic aerial photography: Aerial photographs of the entire project area will be taken during May or June following project approval, and during each subsequent May or June of years				

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
	ending in a '5' or '0', until the project has				
	been completed as defined by the				
	County of Orange. Resolution of the				
1	photographs will be sufficient to prepare			-	
	200-foot scale maps with 2-foot (or 0.5-				
	meter) contours. Contour maps will be				
	prepared for the San Juan Creek				
	channel corridor from the Verdugo				
	Canyon confluence to 0.5 miles				
	downstream of Antonio Parkway showing				
1	the topography of the bed and of the				
	banks to elevations 15 feet above the				
1	adjoining bed. LIDAR (Light Detection		1		
	and Ranging) or other technologies can				
	be substituted for now-conventional				
	photogrammetric methods. A qualified				
	geomorphologist shall review the aerial				
	photographs of the entire project area,				
	identifying new upland sources of				
	sediment, event-related or land-use				
ł	disturbance, or evidence of channel				
	change and instability. The				
ļ	geomorphologist will also assess				
	discontinuities in sand transport				
	throughout the project area, and will				
	present an assessment of changes, if				
	any, in the San Juan Creek corridor.				
	Results will be presented in a report to				
	be prepared by July 15 of each year,				
	including recommendations for				
	maintenance, repair, or other actions.				
4.	Evaluation of changes downstream of				
	ponds and basins: Longitudinal profiles				
	and channel or drainage-way cross				
	sections will be established downstream				
l	of basins or ponds with capacities				
	exceeding 1 acre foot, or which create a				
	4-foot elevation change in the energy	4			
	grade line. Resurveys will occur				
	whenever the stream-walker and/or the				
	geomorphologist reviewing the aerial	ļ			
li	geomorphologist reviewing the delial	L	1		1

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
photos identify actual or incipient incision or erosion. Resurveys will be completed prior to July 1 when and where the need is identified in the May 20 report discussed above.				
 Supplemental assessments: Adaptive management of channels means changing with the flow of time. Nothing in the program above precludes problem- or condition-related investigations. Additional assessments may be conducted as deemed needed by the applicant to achieve the bed and bank conditions sought. 				
MM 4.5-9 Prior to issuance of a building permit for any estate lot in Planning Area 9, the Project Applicant shall comply with the County of Orange On-site Sewage Absorption System Guidelines.	Submittal of documentation verifying compliance with County of Orange On-site Sewage Absorption System Guidelines	Prior to issuance of Building Permits for estate lots in Planning Area 9	County of Orange Director of Planning & Development Services	
TRANSPORTATION AND CIRCULATION		1		
PDF 4.6-1 Antonio Parkway at Cow Camp Road is a new intersection that shall be designed to have adequate capacity with and without the proposed SR-241 extension. Lane configurations and potential grade separations shall be determined subject to the review and approval of the County of Orange and Caltrans in future design studies to ensure that the intersection provides the needed capacity for long-range cumulative demand and, therefore, operates at an acceptable level of service.	Submittal of satisfactory Intersection Improvement Plans and traffic study	Prior to the issuance of a Grading Permit for intersection improvements	County of Orange Director of Planning & Development Services	
SC 4.6-1 As a part of the submittal of a Tentative Tract Map for an Urban Activity Center development, the project applicant shall submit a Transportation Demand Management (TDM) program consistent with the requirements of the County of Orange TDM Ordinance.	Submittal of satisfactory Transportation Demand Management Plan	Prior to the approval of a Tentative Tract Map for Urban Activity Center development	County of Orange Director of Planning & Development Services	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
SC 4.6-2 Prior to the recordation of a subdivision map, the subdivider shall place notes on the final map which release and relinquish vehicular access rights to all arterial highways to the County of Orange, except for access locations approved by the County of Orange, in a manner meeting the approval of the Manager, Subdivision and Grading. (County of Orange Standard Condition of Approval, T01, Access Rights)	Verification of notes on the final map which release and relinquish vehicular access rights to all arterial highways to the County of Orange except for access locations approved by the County of Orange	Prior to the recordation of a Subdivision Map	County of Orange Director of Planning & Development Services	
SC 4.6-3 Prior to the recordation of a subdivision map, the subdivider shall place a note on the map, in a manner that meets the approval of the Manager, Subdivision and Grading Services, that states:	Verification of a note on the Subdivísion Map	Prior to the recordation of a Subdivision Map	County of Orange Director of Planning & Development Services	
"The private streets constructed within this map shall be owned, operated and maintained by the developer, successors or assigns. The County of Orange shall have no responsibility therefore unless pursuant to appropriate sections of the Streets and Highways Code of the State of California, the said private streets have been accepted into the County Road System by appropriate resolution of the Orange County Board of Supervisors." (County of Orange Standard Condition of Approval, T02, Private Street Responsibility)"				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
SC 4.6-4 Prior to the recordation of a subdivision map, the subdivider shall design and construct the following improvements in accordance with plans and specifications meeting the approval of the Manager, Subdivision and Grading:	Submittal of satisfactory improvements and utility plans with verification of subsequent construction/installation of improvements	Prior to the recordation of a Subdivision Map, plans to be approved and improvements constructed/installed (or subdivider to enter into	County of Orange Director of Planning & Development Services	
A. Streets, bus stops, on-road bicycle trails, street names, signs, striping and stenciling.		subdivision improvement agreement with County)		
B. The water distribution system and appurtenances shall also conform to the applicable laws and adopted regulations enforced by the County Fire Chief.				
C. Underground utilities (including gas, cable, electrical and telephone), streetlights, and mailboxes. (County of Orange Standard Condition of Approval, T04, Public Improvements)				
SC 4.6-5 Prior to the issuance of building permits, the applicant shall pay fees for the Major Thoroughfare and Bridge Fee Program for the Foothill/Eastern Transportation Corridor, in a manner meeting the approval of the Manager, Subdivision and Grading. (County of Orange Standard Condition of Approval, T05, Major Thoroughfare and Bridge Fee Programs)	Verification of payment of fees for the Major Thoroughfare and Bridge Fee Program	Prior to the issuance of Building Permits	County of Orange Director of Planning & Development Services	
SC 4.6-6 Prior to the issuance of any grading permits, the applicant shall provide adequate sight distance per Standard Plan 1117 at all street intersections, in a manner meeting the approval of the Manager, Subdivision and Grading. The applicant shall make all necessary revisions to the plan to meet the sight distance requirement such as removing slopes or other encroachments from the limited use area in a manner meeting the approval of the Manager, Subdivision and Grading Services. (County of Orange Standard Condition of Approval, T07, Site	Approved grading plans verifying adequate sight distance	Prior to the issuance of Grading Permits	County of Orange Director of Planning & Development Services	

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
	ance)				
sub all u sigr and etc. con with with app Gra Con Con	4.6-7 Prior to the recordation of a division map, the subdivider shall install underground traffic signal conduits (e.g., nals, phones, power, loop detectors, etc.) I other appurtenances (e.g., pull boxes,) needed for future traffic signal istruction, and for future interconnection a djacent intersections, all in accordance or plans and specifications meeting the broval of the Manager, Subdivision and ading. (County of Orange Standard ndition of Approval, T08, Traffic Signal nduit)	Approved traffic signal plans with verification of subsequent installation	Prior to the recordation of a Subdivision Map, plans to be approved and improvements constructed/installed (or subdivider to enter into subdivision improvement agreement with County)	County of Orange Director of Planning & Development Services	
	4.6-8 Prior to the recordation of a subdivision map or the issuance of any building permits, whichever occurs first, the subdivider shall provide plans and specifications meeting the approval of the Manager, Subdivision and Grading, for the design of the following improvements:	Submittal of satisfactory street improvement plans	Prior to the recordation of a Subdivision Map or prior to the issuance of Building Permits, whichever occurs first	County of Orange Director of Planning & Development Services	
	 Internal street common private drive system. 				
	 Entrance to the site to emphasize that the development is private by use of signs and other features. 				
В.	Prior to the recordation of a subdivision map, the applicant shall construct the above improvements in a manner meeting the approval of the Manager, Construction.	Verification of improvements' construction in SC 4.6-8A	Prior to the recordation of Subdivision Map, plans to be approved and improvements constructed/installed (or subdivider to enter into subdivision improvement agreement with County)	County of Orange Manager of Construction	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
C. Prior to the issuance of any building permits, the subdivider shall provide plans meeting the approval of the Manager, Subdivision & Grading, for the design of the internal pedestrian circulation system within the development. (County of Orange Standard Condition of Approval, T12, Internal Circulation)	Submittal of satisfactory internal pedestrians circulation plans	Prior to the issuance of Building Permits	County of Orange Director of Planning & Development Services	
SC 4.6-9 Prior to the recordation of a subdivision map, the subdivider shall dedicate a signal maintenance easement to the County of Orange at the project site access, in a manner meeting the approval of the Manager, Subdivision and Grading. (County of Orange Standard Condition of Approval, T13b, Traffic Signal Maintenance Easement)	Submittal of offer(s) of dedication for signal maintenance easement(s)	Prior to the recordation of a Subdivision Map	County of Orange Director of Planning & Development Services	
SC 4.6-10 Prior to the recordation of a subdivision map, the subdivider shall design and construct/provide a cash deposit of% of the cost of / /enter into an agreement with the County of Orange, accompanied by financial security, for the cost of% of) a traffic signal at the intersection of and , in a manner meeting the approval of the Manager, Subdivision and Grading. ¹ (County of Orange Standard Condition of Approval, T14b, Traffic Signal Installation)	Verification of approved street improvement plans with subsequent installation of improvements or enter into agreement with County for construction (with appropriate financial security)	Prior to the recordation of a Subdivision Map	County of Orange Director of Planning & Development Services	
SC 4.6-11 Prior to the recordation of a subdivision map, the applicant shall delineate on the subdivision map a two way reciprocal access and parking easement to all parcels within the map and place a note on the final map reserving the easement for the benefit of all parcels on the map, in a manner meeting the approval of the Manager, Subdivision and Grading. (County of Orange Standard Condition of Approval, T15, Access	Verification of note on map reserving reciprocal parking and access	Prior to the recordation of a Subdivision Map	County of Orange Director of Planning & Development Services	

¹ The specific location of intersections and percentage of deposit would be determined at a future date by the County of Orange.

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
Easement for Commercial Centers)				
SC 4.6-12 Prior to the recordation of a subdivision map, the applicant shall submit a traffic study of the development for review and approval by the Manager, Subdivision and Grading, in accordance with the Growth Management Plan, Transportation Implementation Manual. The applicant shall retain a traffic engineer licensed in the State of California to perform the traffic study.	Submittal of satisfactory traffic study	Prior to the recordation of a Subdivision Map	County of Orange Director of Planning & Development Services	
(County of Orange Standard Condition of				
Approval, T16, Traffic Study) SC 4.6-13 Prior to the approval of any subdivision map (except for financing purposes) for the Ranch Plan development within 1,000 feet of the center line of the conceptual Crown Valley Parkway as shown on the current (as of the date of the Ranch Plan GPA/ZC approval) Master Plan of Arterial Highway (MPAH), between Antonio Parkway and the Foothill Transportation Corridor (FTC), the Director, Resource & Development Management Department (RDMD), County of Orange in consultation with Manager Programming/Planning of Orange County Transportation Authority (OCTA) shall make a finding that said subdivision map does not preclude implementation of Crown Valley Parkway as an MPAH facility.	Finding being made in conjunction with review of subdivision map in conjunction with subdivision map review	Prior to approval of subdivision map within 1,000 feet of the center line of the conceptual Crown Valley Parkway	County of Orange Director of Planning & Development Services (OCTA)	
SC 4.6-14 Prior to recordation of the first tract map (except for financing purposes) for Planning Areas 2, 3, or 5 in the Ranch Plan development, the applicant shall enter into an agreement with the Foothill/Eastern Transportation Corridor Agencies (TCA) to address right-of-way, cost, phasing, implementation and roles and responsibilities relating to all roadway connections to and/or crossings of the SR-241 extension within the Ranch Plan, and/or funding/phasing/	Executed agreement between the applicant and the TCA	In accordance with transportation improvement phasing plan for the SCRIP	TCA with approval of County of Orange Director of RDMD	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
construction of other roadways (i.e., F Street) that are needed in the even the extension of SR-241 does not occur. The agreement between the applicant and the TCA shall also be reviewed and approved by the Director, RDMD, County of Orange, for consistency with SCRIP/Development Agreement phasing/milestone objectives.				
MM 4.6-1 Table 4.6-26 and Table 4.6-27 identify the transportation improvement program proposed as mitigation for the Ranch Plan project for year 2025 and year 2010, respectively. The improvements differ depending on whether the SR-241 southerly extension is assumed. The project applicant shall participate on a fair share basis for improvements associated with cumulative impacts. Funds shall be paid to the County of Orange pursuant to the SCRIP.	Proof of project applicant's payment of funds demonstrating participation on a fair share basis for improvements as a part of the SCRIP Fee Program	As specified in the Transporation Improvement Phasing Plan component of SCRIP	County of Orange Director, Resources and Development Management Department	
MM 4.6-2 The mitigation program is based on the buildout of land uses in the surrounding area and may change based on the effects of the future land development and future changes to regional transportation patterns. The intersection and freeway ramp improvements shall be implemented and/or pro-rata payment shall be made in accordance with the transportation improvement phasing plan of the SCRIP. Prior to the approval of each Master Area Plan, a traffic analysis which supplements The Ranch Plan EIR Traffic Report (Austin- Foust Associates, Inc., May 2004) shall be submitted for review and approval to the County, Director of Planning and Development Services. The traffic study shall include:	Submittal of satisfactory traffic study	Approval of each Master Area Plan	County of Orange Director of Planning & Development Services Area Plans are reviewed by Planning Commission	

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
а.	An evaluation of how any proposed refinements to the circulation system and/or milestones remain in substantial compliance with appropriate Development Agreement obligations and Program EIR mitigation measures.				
	Average Daily Trips generated by uses proposed within the planning area, as distributed onto the surrounding circulation system (both within the Ranch Plan PC Area, and in the surrounding vicinity) including the peak hour characteristics of those trips.				
<u>Fre</u>	eeway Mainline				
he the tra as res mi pa	A 4.6-3 No improvements are proposed rein to address the cumulative impacts of a project on I-5 mainline. Improvements to a I-5 mainline are a part of regional insportation improvement programs with sociated timing and funding sources. If the sponsible agencies establish a cumulative tigation program, the project applicant shall rticipate on a fair share basis.	Proof of project applicant's participation on a fair share basis, if program adopted	In accordance of timing established by mitigation program, if adopted	County of Orange Director of Planning & Development Services (in consideration with Caltrans)	
	RQUALITY		1	1	
mi thi co wi the	OF 4.7-1 The project has been designed to nimize the need for external vehicular trips rough the provision of residential, mmercial, office, and institutional uses thin the boundaries of the project site, ereby reducing vehicular air emissions.	No separate monitoring is required. Compliance is assured through the MMRP process.	N/A	N/A	No separate monitoring required
CO Ma ind Ru of m	C 4.7-1 All construction contractors shall imply with South Coast Air Quality anagement District (SCAQMD) regulations, cluding Rule 403, Fugitive Dust, and ule 402, Nuisance. All grading (regardless acreage) shall apply best available control easures for fugitive dust in accordance with ule 403. To ensure that the project is in full	Verification of compliance with Rule 403 and Rule 402	Prior to the issuance of a grading permit	County of Orange Director of Planning & Development Services	

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
regu imp	apliance with applicable SCAQMD dust ulations and that there is no nuisance act off the site, the contractor would lement each of the following:				
a.	Moisten soil not more than 15 minutes prior to moving soil or conduct whatever watering is necessary to prevent visible dust emissions from traveling more than 100 feet in any direction.				
b.	Apply chemical stabilizers to disturbed surface areas (i.e., completed grading areas) within five days of completing grading or apply dust suppressants or vegetation sufficient to maintain a stabilized surface.				
C.	Water excavated soil piles hourly or cover with temporary coverings.				
d.	Water exposed surfaces at least twice a day under calm conditions. Water as often as needed on windy days when winds are less than 25 miles per day or during very dry weather in order to maintain a surface crust and prevent the release of visible emissions from the construction site.				
e.	Wash mud-covered tires and under- carriages of trucks leaving construction sites.				
f.	Provide for street sweeping, as needed, on adjacent roadways to remove dirt dropped by construction vehicles or mud, which would otherwise be carried off by trucks departing from project sites.				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
Construction: ROC and NO _X Emissions				
SC 4.7-2 The applicant shall comply with the following measures, as feasible, to reduce NO_X and ROC from heavy equipment.	Place as general notes on approved grading plan	Prior to issuance of a grading permit	County of Orange Director of Planning & Development	
 Turn equipment off when not in use for more than five minutes. 			Services	
 Maintain equipment engines in good condition and in proper tune as per manufacturers' specifications. 				
c. Lengthen the construction period during smog season (May through October) to minimize the number of vehicles and equipment operating at the same time.				
Construction: Diesel Emissions				
MM 4.7-1 In order to reduce diesel fuel engine emissions, the project applicant shall require that all construction bid packages include a separate "Diesel Fuel Reduction Plan." This plan shall identify the actions to be taken to reduce diesel fuel emissions during construction activities (inclusive of grading and excavation activities). Reductions in diesel fuel emissions can be achieved by measures including, but not limited to, the following: a) use of alternative energy sources, such as compressed natural gas or liquefied petroleum gas, in mobile equipment and vehicles; b) use of "retrofit technology," including diesel particulate trips, on existing diesel engines and vehicles; and c) other appropriate measures. Prior to the issuance of a grading permit, the Diesel Fuel Reduction Plan shall be filed with the County of Orange. The Diesel Fuel Reduction Plan shall include the following provisions:	Submittal of a Diesel Fuel Reduction Plan identifying actions to reduce diesel fuel emissions during construction	Prior to the issuance of a grading permit	County of Orange Director of Planning & Development Services (AQMP)	

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
а.	All diesel fueled off-road construction equipment shall be California Air Resources Board (CARB) certified or use post-combustion controls that reduce pollutant emissions to the same level as CARB certified equipment. CARB certified off-road engines are engines that are three years old or less and comply with lower emission standards. Post-combustion controls are devices that are installed downstream of the engine on the tailpipe to treat the exhaust. These devices are now widely used on construction equipment and are capable of removing over 90 percent of the PM ₁₀ , carbon monoxide, and volatile organic compounds from engine exhaust, depending on the specific device, sulfur content of the fuel, and specific engine. The most common and widely used post-combustion control devices are particulate traps (i.e., soot filters), oxidation catalysts, and combinations thereof.				
b.	All diesel fueled on-road construction vehicles shall meet the emission standards applicable to the most current year to the greatest extent possible. To achieve this standard, new vehicles shall be used or older vehicles shall use post- combustion controls that reduce pollutant emissions to the greatest extent feasible.				
c.	The effectiveness of the latest diesel emission controls is highly dependant on the sulfur content of the fuel. Therefore, diesel fuel used by on-road and off-road construction equipment shall be low sulfur (>15 ppm) or other alternative low polluting diesel fuel formulation such as				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
PuriNO _x TM or Amber363. Low sulfur diesel fuel shall be required by existing regulations after the year 2007 and it is already being produced and sold as the regulation is phased in.				
Local and Regional Operational Impacts				
MM 4.7-2 With the submittal of each Master Area Plan, the project applicant shall identify locations where alternative fueling facilities could be sited.	Show on Master Area and SuArea Plans	Master Area Plan and Subarea Plan	County of Orange Director of Planning & Development Services	
			Area Plans are reviewed by Planning Commission	
MM 4.7-3 With the submittal of each Master Area Plan, the project applicant shall identify how shade trees can be incorporated into parking lot designs (to reduce evaporative emissions from parked vehicles); where shade trees can be sited (to reduce summer cooling needs); and how shade trees would be incorporated into bicycle and pedestrian path design.	Submittal of satisfactory landscape plans	Prior to approval of Master Area Plan	County of Orange Director of Planning & Development Services	
As a part of each Master Area Plan, the applicant shall identify how the use of light- colored roof materials and paint to reflect heat to the extent feasible has been incorporated into the design plans.				
Prior to issuance of building permits, the applicant shall identify how the use of light- colored roof materials and paint to reflect heat to the extent feasible has been incorporated into the design plans.	Issuance of Site Development Permit	Prior to issuance of building permits	County of Orange Director of Planning & Development Services	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
MM 4.7-4 All construction staging areas and stockpile sites will be located as far as feasible from residential areas. This provision will apply to currently existing residential areas and to future residential developments that are completed prior to later development stages.	Approval of construction staging area plan	Prior to issuance of grading permit	County of Orange Director of Planning & Development Services	
A vegetative buffer zone, including trees and shrubs, will be placed between grading sites and residential areas or other locations where sensitive receptors can be reasonably expected.				
NOISE Construction Noise	[r <u></u>	1	
SC 4.8-1 During construction, the project applicant shall ensure that all noise generating activities be limited to the hours of 7 a.m. to 8 p.m. on weekdays and Saturdays. No noise generating activities shall occur on Sundays and holidays in accordance with the County of Orange Noise Ordinance.	General note on approved grading plan	Prior to the issuance of grading permits	County of Orange Director of Planning & Development Services	
SC 4.8-2				
A. Prior to the issuance of any grading permits, the project proponent shall produce evidence acceptable to the Manager, Building Permits Services, that:				
(1) All construction vehicles or equipment, fixed or mobile, operated within 1,000' of a dwelling shall be equipped with properly operating and maintained mufflers.				
(2) All operations shall comply with Orange County Codified Ordinance Division 6 (Noise Control).				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
 (3) Stockpiling and/or vehicle staging areas shall be located as far as practicable from dwellings. B. Notations in the above format, appropriately numbered and included with other notations on the front sheet of the project's permitted grading plans, will be considered as adequate evidence of compliance with this condition. (County 	General note on approved grading plan	Prior to the issuance of grading permits	County of Orange Director of Planning & Development Services	
of Orange Standard Condition N10) Residential Development		······		
SC 4.8-3 The applicant shall sound attenuate all residential lots and dwellings against present and projected noise (which shall be the sum of all noise impacting the project) so that the composite interior standard of 45 dBA CNEL for habitable rooms and a source specific exterior standard of 65 dBA CNEL for outdoor living areas is not exceeded. The applicant shall provide a report prepared by a County-certified acoustical consultant, which demonstrates that these standards will be satisfied in a manner consistent with Zoning Code Section 7-9-137.5, as follows:				
 Prior to the recordation of a subdivision map or prior to the issuance of grading permits, as determined by the Manager, Building Permits Services, the applicant shall submit an acoustical analysis report to the Manager, Building Permits Services, for approval. The report shall describe in detail the exterior noise environment and preliminary mitigation measures. Acoustical design features to achieve interior noise standards may be included in the report in which case it may also satisfy Condition B below. 	Submittal of satisfactory acoustical analysis	Prior to the recordation of a subdivision map or prior to the issuance of grading permits	County of Orange Director of Planning & Development Services	

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
b.	Prior to the issuance of any building permits for residential construction, the applicant shall submit an acoustical analysis report describing the acoustical design features of the structures required to satisfy the exterior and interior noise standards to the Manager, Building Permits Services, for approval along with satisfactory evidence which indicates that the sound attenuation measures specified in the approved acoustical report have been incorporated into the design of the project.	Submittal of satisfactory acoustical analysis	Prior to the issuance of any building permits for residential construction	County of Orange Director of Planning & Development Services and County of Orange Manager of Building Permits Services	
	Prior to the issuance of any building permits, the applicant shall show all freestanding acoustical barriers on the project's plot plan illustrating height, location and construction in a manner meeting the approval of the Manager, Building Permits Services. (County of Orange Standard Condition N01)	Submittal of satisfactory acoustical analysis with acoustical barrier shown on plot plan	Prior to the issuance of any building permits	County of Orange Director of Planning & Development Services and County of Orange Manager of Building Permits Services	
SC ce ac cc de Bi sL ar Bi sL ar ar	ulti-Family Residential Development C 4.8-4 Prior to the issuance of any ertificates of use and occupancy, the oplicant shall perform field testing in coordance with Title 24 Regulations to verify ompliance with FSTC and FIIC standards if etermined necessary by the Manager, uilding Inspection Services. In the event uch a test was previously performed, the oplicant shall provide satisfactory evidence and a copy of the report to the Manager, uilding Inspection Services, as a upplement to the previously required coustical analysis report. (County of Orange tandard Condition N09)	Verification of field testing in accordance with Title 24 Regulations to verify compliance with FSTC and FIIC standards or a copy of a previous test	Prior to the issuance of certificates of use and occupancy	County of Orange Manager of Building Inspection Services	
N S ex	on-Residential Development C 4.8-5 Except when the interior noise level acceeds the exterior noise level, the applicant nall sound attenuate all nonresidential	Submittal of satisfactory acoustical analysis	Prior to the issuance of building permits	County of Orange Manager of Building	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
structures against the combined impact of all present and projected noise from exterior noise sources to meet the interior noise criteria as specified in the Noise Element and Land Use/Noise Compatibility Manual.			Permit Services	
Prior to the issuance of any building permits, the applicant shall submit to the Manager, Building Permit Services, an acoustical analysis report prepared under the supervision of a County-certified acoustical consultant which describes in detail the exterior noise environment and the acoustical design features required to achieve the interior noise standard and which indicates that the sound attenuation measures specified have been incorporated into the design of the project. (County of Orange Standard Condition N02) Noise-Generating Equipment (Non-				
Residential Projects) SC 4.8-6 Prior to the issuance of any building or grading permits, the applicant shall obtain the approval of the Manager, Building Permits Services of an acoustical analysis report and appropriate plans which demonstrate that the noise levels generated	Approved acoustical analysis	Prior to the issuance of building or grading permits	County of Orange Manager of Building Permits	
by this project during its operation shall be controlled in compliance with Orange County Codified Ordinance, Division 6 (Noise Control). The report shall be prepared under the supervision of a County-certified Acoustical Consultant and shall describe the noise generation potential of the project during its operation and the noise mitigation measures, if needed, which shall be included in the plans and specifications of the project to assure compliance with Orange County Codified Ordinance, Division 6 (Noise Control). (County of Orange Standard				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
SC 4.8-7 Prior to the issuance of certificates of use and occupancy, the developer shall produce evidence to the Manager, Building Inspection Services, that the Department of Real Estate has been notified that the project area is adjacent to a regional transportation corridor. The corridor is expected to be a high capacity, high-speed, limited-access facility for motor vehicles, and will have provisions for bus lanes and other mass transit type facilities. (County of Orange Standard Condition N12)	Submission of evidence that County of Orange Dept. of Real Estate has been notified the project area is adjacent to a regional transportation corridor	Prior to the issuance of certificates of use and occupancy	County of Orange Manager of Building Inspection Services	
Cumulative Vehicular Traffic Noise				
MM 4.8-1 For Camino Capistrano, north of Junipero Sera, prior to the issuance of precise grading permits, a detailed acoustical study shall be performed by a qualified acoustical consultant and submitted to the County of Orange to determine the specific height and location of the noise barriers required to meet the County's noise standards. To be effective, a noise barrier is required to have a surface density of at least 3.5 pounds per square foot and have no openings or cracks. It may be constructed as a solid wall, an earthen berm, or a combination of the two. It may be constructed of wood studs with stucco exterior, 1/4-inch plate glass, 5/8-inch Plexiglas, any masonry material, or a combination of these materials.	Submittal of satisfactory acoustical analysis to determine the specific height and location of the noise barriers required to meet the County's noise standards	Prior to the issuance of precise grading permits for Camino Capistrano, north of Junipero Serra	County of Orange Director of Planning & Development Services	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
BIOLOGICAL RESOURCES PDF 4.9-1 Prior to approval of the first Master Area Plan, the landowner shall enter into an agreement with the County regarding the 15,132-acre RMV Open Space. The agreement shall address:	Execution of an Open Space Agreement between the landowner and the County of Orange	Prior to approval of the first Master Area Plan	County of Orange Director of Planning & Development Services	
 Method of preservation for this open space (i.e., conservation easement or similar mechanism); Permitted uses within the open space as defined in the PC Text; 			Area Plans are reviewed by Planning Commission	
Non-permitted uses within the open space as defined in the PC Text;				
 Phasing of open space preservation areas. Phasing of open space areas will be consistent with development phasing; and 				
• Funding mechanism for implementation of the Adaptive Management Program (AMP) as described in the Draft Program EIR.				
PDF 4.9-2 Upon dedication of land to the RMV Open Space in accordance with the terms of the open space agreement described in PDF 9-1, the project applicant shall implement the Adaptive Management Program contained in Appendix J on the RMV Open Space, including the following sub- plans:	 Verification of implementation of Adaptive Management Program including the following sub-plans: Plant Species, Translocation, Propagation and Management Plan; 	Prior to Master Area Plan	County of Orange Director of Planning & Development Services Area Plans are reviewed by Planning Commission	
Plant Species, Translocation, Propagation and Management Plan;	Habitat Restoration Plan;			
Habitat Restoration Plan;	Invasive Species Control Plan;			
Invasive Species Control Plan;				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
Grazing Management Plan; andWildland Fire Management Plan.	 Grazing Management Plan; and Wildland Fire Management Plan. 			
MM 4.9-1 Prior to issuance of a grading permit for Planning Area 2, the Project Applicant shall demonstrate to the satisfaction of the County's Director of Planning Services Department or his/her designee that two of the four small thread- leaved brodiaea locations are protected. Consistency with this mitigation measure for the portion of Planning Area 2 subject to Planning Reserve shall be addressed in accordance with the requirements of the Planning Reserve Designation.	Submittal of documentation of verification of protection of the four small thread- leaved brodiaea locations are protected	Prior to issuance of Grading Permit for PA 2	County of Orange Director of Planning & Development Services	
MM 4.9-2 Prior to issuance of a grading permit for Planning Area 2, the Project Applicant shall demonstrate to the satisfaction of the County's Director of Planning Services Department or his/her designee that impacts to the key location and major population of southern tarplant in the Chiquita sub-basin have been substantially avoided. Consistency with this mitigation measure for the portion of Planning Area 2 subject to Planning Reserve shall be addressed in accordance with the requirements of the Planning Reserve Designation.	Submittal of documentation of verification that impacts to the <i>key location</i> and <i>major</i> <i>population</i> of southern tarplant in the Chiquita sub- basin have been substantially avoided	Prior to issuance of a Grading Permit for PA 2	County of Orange Director of Planning & Development Services	
MM 4.9-3 Prior to issuance of a grading permit for Planning Area 2, the Project Applicant shall demonstrate to the satisfaction of the County's Director of Planning Services Department or his/her designee that impacts to the key location and major population of Coulter's saltbush in the Chiquita sub-basin have been substantially avoided. Consistency with this mitigation measure for the portion of Planning Area 2 subject to Planning Reserve shall be	Submittal of documentation of verification that impacts to the <i>key location</i> and <i>major</i> <i>population</i> of Coulter's saltbush in the Chiquita sub- basin have been substantially avoided	Prior to issuance of a Grading Permit for PA 2	County of Orange Director of Planning & Development Services	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
addressed in accordance with the requirements of the Planning Reserve Designation.				
MM 4.9-7 Prior to issuance of a grading permit for Planning Area 7, the Project Applicant shall demonstrate to the satisfaction of the County's Director of Planning Services Department or his/her designee that a minimum of a 200-foot setback (average 500 feet) from Cristianitos Creek has been incorporated into the project design.	Submittal of documentation of verification that a minimum of a 200-foot setback (average 500 feet) from Cristianitos Creek has been incorporated into the project design	Prior to issuance of a Grading Permit for PA 7	County of Orange Director of Planning & Development Services	
MM 4.9-16 Prior to issuance of a grading permit for Planning Area 7, the Project Applicant shall demonstrate to the satisfaction of the County's Director of Planning Services Department or his/her designee that impacts to native grasslands in the Lower Gabino subunit are substantially avoided. Additionally, applicant shall further demonstrate to the County's Director of Planning Services Department or his/her designee compliance with the NCCP Habitat Restoration Program for native grasslands.	Submittal of documentation of verification that impacts to native grasslands in the Lower Gabino subunit are substantially avoided and document compliance with the NCCP Habitat Restoration Program for native grasslands	Prior to issuance of a Grading Permit for PA 7	County of Orange Director of Planning & Development Services	
MM 4.9-19 Prior to issuance of a grading permit for Planning Area 8, the Project Applicant shall demonstrate to the satisfaction of the County's Director of Planning Services Department or his/her designee that the facilities specified in the Water Quality Management Plan to address pollutants of concern and conditions of concern are shown on the project plans.	Approved WQMP showing specified facilities	Prior to issuance of a Grading Permit for PA 8	County of Orange Director of Planning & Development Services	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
MM 4.9-22 Prior to issuance of a grading permit for construction of Cristianitos Road from PA 5 to PA 2 and Cow Camp Road, the applicant shall demonstrate to the satisfaction of the County's Director of Planning Services Department or his/her designee that the design for the specified portions of Cristianitos Road and Cow Camp Road includes the following features to facilitate wildlife movement:	Approval of a Street Improvement Plan demonstrating the design for Cristianitos Road and Cow Camp Road includes features to facilitate wildlife movement	Prior to issuance of a Grading Permit for construction of Cristianitos Road and Cow Camp Road	County of Orange Director of Planning & Development Services	
The bridge shall have minimum height dimensions of 20 feet.				
• Chain link fencing of 10 feet in height shall be installed on the north and south approaches to the culvert for a distance of 100 feet to deter wildlife from accessing the roadway.				
 All lighting on the bridge, if required for public health and safety, shall be shielded to prevent spill-over effects. 				
MM 4.9-23 Prior to issuance of a grading permit for widening of Cristianitos Road, the applicant shall demonstrate to the satisfaction of the County's Director of Planning Services Department or his/her designee that the design for Cristianitos Road includes the following features to facilitate wildlife movement:	Approval of a Street Improvement Plan demonstrating the design for Cristianitos Road includes features to facilitate wildlife movement	Prior to issuance of a Grading Permit for construction of Cristianitos Road	County of Orange Director of Planning & Development Services	
 Culverts shall be constructed at the crossing of Gabino Creek and Cristianitos Creek 				
The culvert shall have minimum dimensions of 15 x 15 feet.				
The bottom of the culvert shall be natural substrate.				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
 Light shall be visible from one end of the culvert to the other. 				
 Vegetation installed at either end of the culvert shall be native-low growing species to prevent predator-prey stalking. 				
• Chain link fencing of 10 feet in height shall be installed on the north and south approaches to the culvert for a distance of 100 feet to deter wildlife from accessing the roadway.				
 If required for public heath and safety, all lighting on the road above the culvert shall be shielded to prevent spill-over effects. 				
MM 4.9-24 Prior to design of the proposed ground tanks, project applicant shall coordinate with SMWD to review potential alternative locations for these tanks that would avoid impacts to linkages G and K, while still meeting SMWD siting criteria for ground tanks.	Verification of coordinated review of potential alternative locations for proposed ground tanks	In conjunction with construction of proposed ground tanks	SMWD with input from County of Orange Director of Planning & Development Services through non-County lead process	
If alternative sites cannot be identified, the following measure will apply:				
MM 4.9-25 In conjunction with construction of these tanks, SMWD shall employ measures to reduce construction impacts, including fencing sensitive habitats and implementing of erosion control. Post construction all temporary disturbance areas shall be restored with native species. All manufactured slopes associated with the ground tanks shall be restored with native species. Lighting shall be restricted to necessary safety lighting and shall be shielded to reduce spill-over into native habitats.	Verification of measures to reduce construction impacts	In conjunction with construction of proposed ground tanks	SMWD with input from County of Orange Director of Planning & Development Services through non-County lead process	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
Mitigation Measure MM 4.9-26 During construction, a construction monitoring program shall be implemented to mitigate for short-term noise impacts to nesting raptors, to the satisfaction of the County of Orange, Manager, Subdivision and Grading. Indirect impacts shall be mitigated by limiting heavy construction (i.e., mass grading) within 300 feet of occupied raptor nests. Occupied raptors nests shall be marked as "Environmentally Sensitive Areas" on grading/construction plans and shall be protected with fencing consisting of T-bar posts and yellow rope. Signs noting the area as an "Environmentally Sensitive Area" will be	Implementing Action Approved Construction Monitoring Program with subsequent implementation	Time of Verification Prior to issuance of grading permit	Responsible Party County of Orange Director of Planning & Development Services	Status
attached to the rope at regular intervals. MM 4.9-27 All plants identified by the California Exotic Pest Plant Council as an invasive risk in southern California shall be prohibited from development and fuel management zones adjacent to the RMV Open Space. The plant palette for fuel management zones adjacent to the RMV Open Space shall be limited to those species listed on the Orange County Fire Authority Fuel Modification Plant List. Plants native to Rancho Mission Viejo shall be given preference in the plant palette.	Approved landscape plans	Prior to the approval of fuel modification plans	County of Orange Director of Planning & Development Services (OCFA Fire Chief)	
Prior to issuance of fuel modification plan approvals, the County of Orange shall verify that: 1) plants identified by the California Exotic Pest Plant Council as an invasive risk in Southern California are not included in plans for fuel management zones adjacent to the RMV Open Space and, 2) the plant palette for fuel management zones adjacent to RMV Open Space is limited to those species listed on the Orange County Fire Authority Fuel Modification Plant List.	Verification of authorized plant materials	Prior to the approval of fuel modification plan	County of Orange Director of Planning & Development Services (OCFA Fire Chief)	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
Prior to the recordation of a map for a tract adjacent to the RMV Open Space, the County of Orange shall verify that the CC&Rs contain language prohibiting the planting of plants identified by the California Exotic Pest Plant Council as an invasive risk in Southern California in private landscaped areas. MM 4.9-28 Lighting shall be shielded or directed away from RMV Open Space habitat areas through the use of low-sodium or	Verification of required language in CC&Rs	Prior to the recordation of a map for tract adjacent to the RMV Open Space	County of Orange Director of Planning & Development Services	
similar intensity lights, light shields, native shrubs, berms or other shielding methods. Prior to the issuance of building permits for a tract with public street lighting adjacent to	Approved lighting plan	Prior to the issuance of building permits for tracts	County of Orange Director of Planning	
RMV Open Space habitat areas, the County of Orange shall verify that measures to shield such lighting have been incorporated in the building plans. MM 4.9-29 Access to the RMV Open Space		with public street lighting adjacent to RMV Open Space habitat areas	& Development Services	
shall be managed and directed as specified in the Open Space Agreement between the County of Orange and RMV. Where potential conflicts between development and open space are identified per the agreement the following shall occur:				
Prior to the issuance of building permits for a tract adjacent to the RMV Open Space, the County of Orange shall verify that measures, such as fencing, signs etc., to direct the public to public access points within the RMV Open Space have been incorporated into the building plans. To the extent that public access points are not identified, the County of Orange shall verify that measures, such as fencing, signs etc., to prohibit public access have been incorporated into the building plans.	Submittal of evidence verifying that measures, have been incorporated into the building plans; approved building plans	Prior to the issuance of Building Permits for tracts adjacent to the RMV Open Space	County of Orange Director of Planning & Development Services	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
MM 4.9-30 Biological resources outside of the Proposed Project impact area shall be protected during construction. To ensure this protection, the Project Applicant shall prepare and implement a Biological Resources Construction Plan (BRCP) that provides for the protection of the resource and established the monitoring requirements. The BRCP shall contain at a minimum the following:	Approval of a Biological Resources Construction Plan (BRCP)	Prior to issuance of grading permits	County of Orange Director of Planning & Development Services	
Specific measures for the protection of sensitive amphibian, mammal, bird, and plant species during construction.				
Identification and qualification of habitats to be removed.				
Design of protective fencing around conserved habitat areas and the construction staging areas.				
• Specific construction monitoring programs for sensitive species required by Wildlife Agencies including, but not limited to, programs for the arroyo southwestern toad, western spadefoot toad, southwestern pond turtle, cactus wren, and coastal California gnatcatcher. Such measures shall be consistent with prior Section 7 consultations and 1600 agreements e.g., Arroyo Trabuco Golf Course.				·
• Specific measures required by Wildlife Agencies (e.g., Arroyo Trabuco Golf Course) for the protection of sensitive habitats including, but are not limited to, erosion and siltation control measures, protective fencing guidelines, dust control measures, grading techniques, construction area limits, and biological monitoring requirements.				
Provisions for biological monitoring during				

	Grading Permits		
		Services	
Canyon has been avoided			
nabitats			
	Cristianilos sub-basin	Services	,
Annual lands sons plans for	Dries to incurance of	County of Orongo	
grassiano 		Gervices	
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	Submittal of documentation verifying that wetland/riparian habitat for tricolored blackbird at the mouth of Verdugo Canyon has been avoided Approved landscape plans for the golf course include native habitats Approved landscape plans for the golf course include native habitats including native grassland	verifying that wetland/riparian habitat for tricolored blackbird at the mouth of Verdugo Canyon has been avoidedGrading PermitsApproved landscape plans for the golf course include native habitatsPrior to issuance of Grading Permits for the proposed golf course in Cristianitos sub-basinApproved landscape plans for the golf course include native habitatsPrior to issuance of Grading Permits for the proposed golf course in Cristianitos sub-basin	verifying that wetland/riparian habitat for tricolored blackbird at the mouth of Verdugo Canyon has been avoidedGrading PermitsDirector of Planning & Development ServicesApproved landscape plans for the golf course include native habitatsPrior to issuance of Grading Permits for the proposed golf course in Cristianitos sub-basinCounty of Orange Director of Planning & Development ServicesApproved landscape plans for the golf course include native habitatsPrior to issuance of Grading Permits for the proposed golf course in Cristianitos sub-basinCounty of Orange Director of Planning & DevelopmentApproved landscape plans for the golf course include native habitats including nativePrior to issuance of Grading Permits for the proposed golf course in Cristianitos sub-basinCounty of Orange Director of Planning & Development

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
MM 4.9-35 Prior to issuance of a grading permit for Planning Area 5, the Project	Submittal of documentation of verification that all vernal	Prior to issuance of Grading Permits for	County of Orange Director of Planning	
Applicant shall demonstrate to the satisfaction of the County's Director of	pools in the Trampas Sub- basin have been avoided	Planning Area 5	& Development Services	
Planning Services Department or his/her designee that all vernal pools in the Trampas Sub-basin have been avoided.				
MM 4.9-36 Palmers grappling hook seed shall be collected prior to project impacts for use in the seed mix for coastal sage scrub/native grassland restoration areas. Receiver sites will support clay soils and other conditions suitable for Palmer's grappling hook. In addition, where feasible, clay soils will be salvaged from development areas and appropriately transported to restoration areas to provide a seed bank. Implementation details of the salvage and relocation program shall be identified in the Final Plant Species Translocation, Propagation and Management Plan, outlined in Appendix J-1.	Approval of Final Plant Species Translocation, Propagation and Management Plan Verification of collection of Palmers grappling hook seeds	Prior to issuance of grading permit as monitored by the County Biological Monitor Prior to initiation of grading as monitored by the County Biological Monitor	County of Orange Director of Planning & Development Services and County Biological Monitor	
MM 4.9-37 Catalina mariposa lily shall be salvaged and relocated to the coastal sage scrub/native grassland restoration and enhancement areas by the Project Applicant; or seed can be collected prior to project impacts for use in the seed mix for coastal sage scrub/native grassland restoration areas. The receiver sites shall support clay soils and other conditions suitable for Catalina mariposa lily. In addition, where feasible, clay soils shall be salvaged from development areas and appropriately transported to restoration areas to provide a seed bank. Implementation details of the salvage and relocation program shall be	Approval of Final Plant Species Translocation, Propagation and Management Plan Verification of Catalina mariposa lily salvage/ relocation	Prior to issuance of grading permit as monitored by the County Biological Monitor Prior to initiation of grading as monitored by the County Biological Monitor	County of Orange Director of Planning & Development Services and County Biological Monitor	
identified in the Final Plant Species Translocation, Propagation and Management Plan, outlined in Appendix J-1. MM 4.9-38 Vernal barley seed shall be	Approval of Final Plant	Prior to issuance of a	County of Orange	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
collected prior to project impacts for use in the seed mix for coastal sage scrub/native grassland restoration areas. The receiver sites shall support clay soils and other conditions suitable for vernal barley. In addition, where feasible, clay soils shall be	Species Translocation, Propagation and Management Plan	grading permit as monitored by the County Biological Monitor	Director of Planning & Development Services and County Biological Monitor	
salvaged from development areas and appropriately transported to restoration areas to provide a seed bank. Implementation details of the salvage and relocation program shall be identified in the Final Plant Species Translocation, Propagation and Management Plan, outlined in Appendix J-1.	Verification of vernal barley seed collection	Prior to initiation of grading as monitored by the County Biological Monitor		
MM 4.9-39 Small-flowered microseris seed shall be collected prior to project impacts for use in the seed mix for coastal sage scrub/native grassland restoration areas. The receiver sites shall support clay soils and other conditions suitable for small-flowered microseris. In addition, where feasible, clay soils shall be salvaged from development	Approval of Final Plant Species Translocation, Propagation and Management Plan	Prior to issuance of a grading permit as monitored by the County Biological Monitor	County of Orange Director of Planning & Development Services and County Biological Monitor	
areas and appropriately transported to restoration areas to provide a seed bank. Implementation details of the salvage and relocation program shall be identified in the Final Plant Species Translocation, Propagation and Management Plan, outlined in Appendix J-1.	Verification of Small-flowered microseris seed collection	Prior to initiation of grading as monitored by the County Biological Monitor		
MM 4.9-40 Mud nama inoculum (topsoil and dried pants to obtain seed) shall be collected prior to project impacts for use in the relocation of this species. The receiver sites shall support appropriate soils and other conditions suitable for mud nama.	Approval of Final Plant Species Translocation, Propagation and Management Plan	Prior to issuance of a grading permit as monitored by the County Biological Monitor	County of Orange Director of Planning & Development Services and County Biological Monitor	
Implementation details of the salvage and relocation program shall be identified in the Final Plant Species Translocation, Propagation and Management Plan.	Verification of Mud nama inoculum seed collection	Prior to initiation of grading as monitored by the County Biological Monitor		
MM 4.9-41 Prior to the issuance of a grading permit for Planning Area 6, the Project Applicant shall demonstrate to the	Submittal of evidence documenting that the key gnatcatcher location has	Prior to issuance of grading permit for Planning Area 6	County of Orange Director of Planning & Development	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
satisfaction of the County's Director of Planning Services Department or his/her designee that the key gnatcatcher location is avoided.	been avoided		Services	
MM 4.9-42 The project applicant shall obtain Section 404, 1600, and federal and state Endangered Species Act permits, as applicable.	Provide evidence of permits from the regulatory agencies	Prior to issuance of grading permit for those areas with federal or state endangered species, or jurisdictional land	County of Orange Director of Planning & Development Services (CDFG, USFWS, ACOE)	
MM 4.9-43 In conjunction with future regulatory permitting, the project applicant shall examine further minimization of impacts to wetlands in the "ox-bow" area of the Gobernadora sub-basin in order to increase the dimension of Linkage G.	Provide evidence of permits from the regulatory agencies	Prior to issuance of grading permit for PA 3 or any portion thereof offering the "ox-bow" area of the Gobernadora sub- basin	County of Orange Director of Planning & Development Services (CDFG, USFWS, ACOE)	
AESTHETICS AND VISUAL RESOURCES PDF4.10-1 Approximately two-thirds of the project site shall be retained in open space.	No separate monitoring is required. Compliance is assured through project implementation and MMRP process.	N/A	N/A	No separate monitoring required
PDF4.10-2 A 2,100-foot-wide buffer shall be provided between Coto de Caza and the project site.	Approved Master Area Plan showing buffer	Approval of Master Area Plan for PAs 2 & 3	County of Orange Director of Planning & Development Services Area Plans are reviewed by Planning Commission	
PDF 4.10-3 Within Planning Area 4 and along the easterly development edge of Planning Area 3 adjacent to Caspers Wilderness Park, the exterior lighting shall be designed and located to confine direct rays to the premises. In addition, parking lots and lighting within Planning Area 4 and along the easterly development edge of Planning Area 3 shall be designed and constructed in a manner that minimizes the diffusion of refractive light into surrounding neighborhoods and/or into the night sky.	Approved Lighting Plan	Prior to Final Tract Map recordation for PAs 3 & 4	County of Orange Director of Planning & Development Services	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
PDF 4.10-4 Within Planning Area 4 and along the easterly development edge of Planning Area 3 adjacent to Caspers Wilderness Park, the applicant shall demonstrate that the exterior walls, and particularly the roofing materials, of residences and businesses visible from Caspers Regional Park are compatible with the natural surroundings.	Submittal of documentation demonstrating that the exterior walls and roofing materials of residences and businesses visible from Caspers Regional Park are compatible with the natural surroundings	Prior to approval of Master Area Plans for Planning Areas 3 and 4 Showing of roofing materials at building permit	County of Orange Director of Planning & Development Services Area Plans are reviewed by Planning Commission	
SC4.10-1 The applicant shall install landscaping, equip for irrigation, and improvements on lots in accordance with an approved plan as stated below:				
 a. Detailed Plan-Prior to the issuance of any building permit(s), the applicant shall submit a detailed landscape plan showing the detailed irrigation and landscaping design to the Manager, Subdivision and Grading for approval, in consultation with the Manager HBP/Program Management. Detailed plans shall show the detailed irrigation and landscaping design and shall take into account the previously approved landscape plan for the Ranch Plan project, the County Standard Plans for landscape areas, adopted plant palette guides, applicable scenic and specific plan requirements, Water Conservation Measures contained in Board Resolution 90-487 (Water Conservation Measures), and Board Resolution 90-1341 (Water Conservation Implementation Plan). 	Approved landscaping plan and irrigation plan	Prior to the issuance of building permits	County of Orange Director of Planning & Development Services in consultation with Manager, HBP	

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
b.	Installation Certification-Prior to the issuance of final certificates of use and occupancy and the release of financial security, if any, guaranteeing the landscape improvements, said improvements shall be installed and shall be certified by a licensed landscape architect or licensed landscape	Landscaping and irrigation plan certification from landscape architect	Prior to the issuance of final certificates of use and occupancy and the release of financial security	County of Orange Director of Planning & Development Services & Manager HBP	
	contractor, as having been installed in accordance with the approved detailed plans. The applicant shall furnish said certification, including an irrigation management report for each landscape irrigation system, and any other required implementation report determined applicable, to the Manager, Construction, and the Manager, Building Inspection Services, prior to the issuance of any certificates of use and occupancy. (County of Orange Standard Conditions of Approval, LA01b)	Approved irrigation management report	Prior to the issuance of final certificates of use and occupancy and the release of financial security	County of Orange Manager, Construction and Manager, Builiding Inspection Services	
a.	Prior to the issuance of precise grading permits, the applicant shall prepare a detailed landscape plan for privately maintained common areas which shall be reviewed and approved by the Manager, Subdivision and Grading. The plan shall be certified by a licensed landscape architect or a licensed landscape contractor, as required, as taking into account the approved preliminary landscape plan (if any), County Standard Plans for landscape areas, adopted plant palette guides, applicable scenic and specific plan requirements, Water Conservation	Approved detailed landscape plan for privately maintained common areas	Prior to the issuance of precise grading permits	County of Orange Director of Planning & Development Services	

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
	Measures contained in Board Resolution 90-487 (Water Conservation Measures), and Board Resolution 90-1341 (Water Conservation Implementation Plan).				
b.	Prior to the issuance of certificates of use and occupancy, applicant shall install said landscaping and irrigation system and shall have a licensed landscape architect or licensed landscape contractor, certify that it was installed in accordance with the approved plan.	Certification from landscape architect that landscaping and irrigation system in accordance with the approved plan	Prior to the issuance of certificates of use and occupancy	County of Orange Director of Planning & Development Services	
С.	Prior to the issuance of any certificates of use and occupancy, the applicant shall furnish said installation certification, including an irrigation management report for each landscape irrigation system, and any other implementation report determined applicable, to the Manager, Building Inspection Services. (County of Orange Standard Conditions of Approval, LA02b)	Approved irrigation management report for each landscape irrigation system	Prior to the issuance of certificates of use and occupancy	County of Orange Manager, Building Inspection Services	
per all loc the app (Co	4.10-3 Prior to issuance of any building rmit, the applicant shall demonstrate that exterior lighting has been designed and sated so that all direct rays are confined to a property in a manner meeting the proval of the Manager, Building Permit. ounty of Orange Standard Conditions of proval, LG01)	Approved lighting study/plan	Prior to the issuance of building permits	County of Orange Manager of Building Permits	
MM nat be and spi and orid sat Ma ins occ	M 4.10-1 All lighting along the perimeter of tural areas, particularly street lights, shall downcast luminaries and shall be shielded d oriented in a manner that will prevent illage or glare into the remaining natural d open space areas. Final lighting entation and design shall be to the tisfaction of the County of Orange, anager, Building Permits. Prior to final spection or issuance of a certificate of cupancy, where applicable, the Manager, hilding Permit, shall cause to be performed	Approved photometric field inspection of the final approved lighting system for the project	Prior to the final inspection or issuance of a certificate of occupancy	County of Orange Building Permits Manager	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
a photometric field inspection of the approved lighting system for the project. The inspection shall verify the proper construction and installation of materials within the approved plan, determine the actual light patterns and values through light meter testing and observation, and determine the extent of any errant lighting. Deviations and/or violations shall be corrected prior to the final clearance for the project. CULTURAL AND PALEONTOLOGICAL RESO SC 4.11-1 Prior to the issuance of any grading permit, the applicant shall provide written evidence to the County or Orange Manager, Subdivision and Grading, that applicant has retained a County-certified archaeologist to observe grading activities and salvage and catalogue archaeological resources as necessary. The archaeologist shall be present at the pre-grade conference; shall establish procedures for archaeological resource surveillance; and shall establish, in cooperation with the applicant, procedures for temporarily halting or redirecting work to permit the sampling, identification, and evaluation of the artifacts as appropriate. If the archaeological resources are found to be significant, the archaeological observer shall determine appropriate actions, in cooperation with the project applicant, for exploration		Prior to the issuance of any grading permits	County of Orange Manager, Harbors, Beaches & Parks HBP/Coastal and Historical Facilities	
and/or salvage. Prior to the release of the grading bond, the applicant shall obtain approval of the archaeologist's follow-up report from the Manager, Harbors, Beaches & Parks HBP/Coastal and Historical Facilities. The report shall include the period of inspection, an analysis of any artifacts found and the present repository of the artifacts. Applicant shall prepare excavated material to the point of identification. Applicant shall offer	Approval of the archaeologist's follow-up report Verification of payment of curatorial fee if an applicable fee program has been	Prior to the release of the grading bond Prior to the release of the grading bond	County of Orange Manager, Harbors, Beaches & Parks HBP/Coastal and Historical Facilities County of Orange Manager, Harbors, Beaches & Parks	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
excavated finds for curatorial purposes to the County of Orange, or its designee, on a first refusal basis. These actions, as well as final mitigation and disposition of the resources shall be subject to the approval of the Manager, HBP/Coastal and Historical Facilities. Applicant shall pay curatorial fees if an applicable fee program has been adopted by the Board of Supervisor, and such fee program is in effect at the time of presentation of the materials to the County of Orange or its designee, all in a manner meeting the approval of the Manager, HBP/Coastal and Historical Facilities. (County of Orange Standard Conditions of Approval, A04)	adopted by the Board of Supervisor at the time of presentation		HBP/Coastal and Historical Facilities	
Paleontological Resources SC 4.11-2 Prior to the issuance of any grading permit, the project contractor shall provide written evidence to the Manager, Subdivision and Grading, that contractor has retained a County certified paleontologist to observe grading activities and salvage and catalogue fossils as necessary. The paleontologist shall be present at the pre- grade conference, shall establish procedures for paleontological resources surveillance, and shall establish, in cooperation with the contractor, procedures for temporarily halting or redirecting work to permit sampling, identification, and evaluation of the fossils. If the paleontological resources are found to be significant, the paleontologist shall determine appropriate actions, in cooperation with the contractor, which ensure proper exploration and/or salvage.	Written evidence that a County-certified archaeologist has been retained to observe grading and salvage, and to catalogue fossils as necessary	Prior to the issuance of any grading permits	County of Orange Manager, Harbors, Beaches & Parks HBP/Coastal and Historical Facilities	
Prior to the release of any grading bond, the contractor shall submit the paleontologist's follow up report for approval by the County Manager, HBP/Coastal and Historical	Approval of the paleontologist's follow-up report	Prior to the release of the grading bond	County of Orange Manager, Harbors, Beaches & Parks HBP/Coastal and	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
Facilities. The report shall include the period of inspection, a catalogue and analysis of the fossils found, and the present repository of the fossils. The contractor shall prepare excavated material to the point of identification. The contractor shall offer excavated finds for curatorial purposes to the County of Orange, or its designee, on a first- refusal basis. These actions, as well as final mitigation and disposition of the resources, shall be subject to approval by the HBP/Coastal and Historical Facilities. The contractor shall pay curatorial fees if an applicable fee program has been adopted by the Board of Supervisors, and such fee program is in effect at the time of presentation of the materials to the County of Orange or its designee, all in a manner meeting the approval of the County Manager, HBP/Coastal and Historical Facilities. (County of Orange Standard Condition of Approval, A07)	Verification of payment of curatorial fee if an applicable fee program has been adopted by the Board of Supervisor at the time of presentation	Prior to the release of the grading bond	Historical Facilities County of Orange Manager, Harbors, Beaches & Parks HBP/Coastal and Historical Facilities	
Prehistoric and Historic Archaeological Resources MM 4.11-1 Prior to the approval of final plans and specifications for the development of Area Plans, the project applicant shall prepare a Cultural Resources Management (CRM) Plan to address the presence of cultural resources, evaluate the significance of any resource finds, provide final mitigation and monitoring program recommendations, and determine proper retention or disposal of resources. The CRM Plan shall be reviewed and approved by the County Director of Planning in Consultation with the County Manager, Harbors, Beaches & Parks HBP/Coastal and Historical Facilities.	Approved Cultural Resources Management Plans	Prior to the approval of each Subarea Plan	Orange County Director of Planning in conjunction with the Orange County Manager of Harbors, Beaches & Parks HBP/Coastal and Historical Facilities Area Plans are reviewed by Planning Commission	

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Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
MM 4.11-2 Based on the mitigation standards set forth in the California Environmental Act (CEQA) Guidelines §15126.4(b) and Public Resources Code §21083.2, prior to the approval Area Plans for the applicable planning areas, the applicant shall provide the County of Orange with evidence regarding the determination of eligibility of prehistoric sites CA-ORA-535, - 753, -754, -1134, -1136, -1137, and -1138, and historic sites 30-176631, -176633, - 176634, and -176635. Should a site(s) be deemed ineligible for listing on the National Register of Historic Places (NRHP) or California Register of Historic Places (CRHR), no further mitigation is required. Should a site(s) be deemed eligible, the County of Orange standard conditions and requirements and subsequent Mitigation Measure 4.11-3 shall apply.	Provide evidence regarding the determination of eligibility of prehistoric sites CA-ORA- 535, -753, -754, -1134, -1136, -1137, and -1138, and historic sites 30-176631, -176633, -176634, and -176635	Prior to the approval of applicable Subarea Plans	County of Orange Director of Planning & Development Services Services in conjunction with the Orange County Manager of Harbors, Beaches & Parks HBP/Coastal and Historical Facilities Area Plans are reviewed by Planning Commission	
MM 4.11-3 As applicable, the following archaeological sites shall be mitigated to a less than significant level: CA-ORA-535, - 656, -753, -754, -882, -997, -1043, -1048, - 1121, -1222, -1134, , -1137, -1138, -1449, - 1556, -1559, -1560, and -1565, and historic sites CA-ORA-29, 30-176631, 30-176633, 30-176634, and 30-176635. Based on the mitigation standards set forth in the California Environmental Act (CEQA) Guidelines §15126.4(b) and Public Resources Code §21083.2, mitigation shall be accomplished through implementation of one of the following mitigation options consistent with the Cultural Resources Management Plan:				

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
а.	Relocation of grading boundaries/fuel modification zones to completely avoid disturbance to the site(s). Should the boundary relocation be infeasible, an archaeological monitor shall be present during grading and fuel modification brush clearance in the vicinity of archaeological resources (note: confidential archaeological mapping is on file at the County of Orange). Fencing or stakes shall be erected outside of the sites to visually depict the areas to be avoided during construction.	Verify archaeological sites have been avoided or the presence of a county certified archaeologist during grading and brush removal	Prior to issuance of grading permit in vicinity of identified resources	County of Orange Director of Planning & Development Services Services in conjunction with the Orange County Manager of Harbors, Beaches & Parks HBP/Coastal and Historical Facilities	
b.	Prior to grading in the vicinity of archaeological resources (note: confidential archaeological mapping is on file at the County of Orange), Phase III data recovery (salvage excavations) shall be conducted for these archaeological sites or any other sites within the potential impact area of development that cannot be avoided. The Phase III work shall provide sufficient scientific information to fully mitigate the impacts of development on these sites and be performed in accordance with standards of the State Office of Historic Preservation.	Document review of the Phase III data recovery	Prior to issuance of grading permit in vicinity of identified resources	County of Orange Director of Planning & Development Services Services in conjunction with the Orange County Manager of Harbors, Beaches & Parks HBP/Coastal and Historical Facilities	
Sa rei dis rei ha ar Co de no	accordance with California Health and afety Code Section 7050.5, if human mains are found, no further excavation or sturbance of the site or any nearby area asonably suspected to overlie adjacent mains shall occur until the County Coroner as determined the appropriate treatment ad disposition of the human remains. The bunty Coroner shall make such etermination within two working days of otification of discovery. The County Coroner hall be notified within 24 hours of the				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
discovery. If the County Coroner determines that the remains are or believed to be Native American, the County Coroner shall notify the Native American Heritage Commission in Sacramento within 24 hours. In accordance with California Public Resources Code Section 5097.98, the Native American Heritage Commission must immediately notify those persons it believes to be the most likely descended from the deceased Native American. The descendents shall complete their inspection within 24 hours of notification. The designated Native American representative would then determine, in consultation with the property owner, the disposition of the human remains. RECREATION				
PDF 4.12-2 The project incorporates 20 to 25 acres of sports park	Verification of incorporation of 20 to 25 acres of sports parks into the Master Park Implementation Plan	In conjunction with Master Park Plan for Planning Area 3	County of Orange Director of Planning & Development Services	
PDF 4.12-3 The project provides for 15,132 acres of open space within the Ranch Plan boundaries. The large amount of open space would provide for protection of many of the major ridgelines. Specifically, the open space in Planning Area 10 would provide a buffer with the General Thomas F. Riley and Ronald W. Caspers Wilderness Parks. This minimizes indirect impacts on the existing parks.	No separate monitoring is required. Compliance is assured through project implementation and MMRP process. (See PDF 4.1-1 and 4.9-1)	N/A	N/A	No separate monitoring is required
PDF 4.12-4 The project provides for trail linkages between the Ladera Ranch and the Ranch Plan community trails, which provides connection to the regional trail system.	Verify trail linkages between Ladera Ranch and Ranch Plan community trails provide connection to regional trail system	Prior to approval of Master Area Plan for PA 1	County of Orange Manager of Harbors, Beaches and Parks, Trails Division Area Plans are reviewed by Planning Commission	
PDF 4.12-5 The project would facilitate	Verify plans include portions	Prior to applicable project	County of Orange	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
implementation of the Master Plan of	of the San Juan Creek,	Master Area Plan and	Manager of Harbors,	
Regional Riding and Hiking Trails, through	Cristianitos and Prima	Subarea Plan approval	Beaches and Parks,	
the construction of portions of the San Juan	Deshecha trails within		Trails Division	
Creek, the Cristianitos, and the Prima	development areas		1	
Deshecha trails.			Area Plans are	
			reviewed by	
			Planning	
	4	1	Commission	
PDF 4.12-6 The project would facilitate	Verify plans include portions	Prior to applicable Master	County of Orange	
implementation of the Master Plan of County	of the San Juan Creek	Plan and Subarea Plan	Manager of Harbors,	
Bikeways through construction of portions of	Bikeway within development	approval	Beaches and Parks.	
the San Juan Creek Bikeway.	areas	appiora	Bikeways Division	
and dan blan order bireway.	areas		Diveways Division	E
			Area Plans are	
			reviewed by	
			Planning	
			Commission	
PDF 4.12-7 The project proposes the	Approved golf course plan	Prior to applicable Master	County of Orange	
construction of up to four golf courses.	with subsequent construction	Plan and Subarea Plan	Director of Planning	
construction of up to rour gon courses.	mar oubocquerit construction	approval	& Development	
		appioval	Services	
			Services	
			Area Plans are	
			reviewed by	
			Planning	
			Commission	
	Draviaian of local norks in	Drian to Master Area Dian		
PDF 4.12-8 Local park sites will be provided	Provision of local parks in	Prior to Master Area Plan	County of Orange	
in accordance with the provisions of the	Master Area Plans, with	Approval	Director of Planning	
Orange County Local Park Code as	subsequent construction		& Development Services	
contained in the Park Implementation Plan for			Area Plans are	
the Ranch Plan PC Area. Park sites will also				
be identified at the Master Area Plan level per			reviewed by	
Section II.B.3.a.6.			Planning	
			Commission	

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
SC	4.12-1				
а.	Prior to the recordation of any subdivision map that creates building sites and is immediately adjacent to or contains a public park lot, the subdivider shall make an irrevocable offer of fee dedication for local park purposes to the County of Orange or its designee over Lot(s)1. The form of the offer shall be suitable for recordation as approved by the Manager, Current Planning Services. Said offer shall be free and clear of money and all other encumbrances, liens, leases, fees, easements (recorded and unrecorded), assessments and unpaid taxes except those meeting the approval of the Manager, Current Planning Services.	Irrevocable offer of fee dedication for local park purposes to the County of Orange	Prior to recordation of any applicable subdivision map	County of Orange Director of Planning & Development Services	
b.	The subdivider applicant shall grade Lot(s), the public park site(s), to provide minimum acres of creditable local park land and shall secure the park site(s) against erosion and shall stub out sewer, water, gas, electricity, telephone, storm drain, etc., connections to the property lines.	Verify subdivider applicant would grade the public park site(s) to provide minimum acres of creditable local park land	Prior to recordation of any subdivision map	County of Orange Director of Planning & Development Services	
c.	The developer, or his assigns, and successors in interest shall maintain the offered park site(s) until such time as the County or its designee accepts the offer of dedication. (Standard Condition CP01 Public Park Dedication)	Verify developer would maintain the offered park site(s) until Orange County accepts the offer of dedication	Prior to recordation of any subdivision map	County of Orange Director of Planning & Development Services	

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	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
SC	4.12-2				
а.	Prior to the recordation of an applicable subdivision map which creates building sites, the subdivider shall make an irrevocable offer to dedicate an easement over Lot(s)for private local park purposes to the County of Orange in a form approved by the Manager, the Manager, Current Planning Services. The subdivider shall not grant any other easement over the private park easement which is inconsistent with the local park uses, unless that easement is made subordinate to said local park easement in a manner meeting the approval of the Manager, Current Planning Services.	Verify subdivider would make an irrevocable offer to dedicate an easement for private local park purposes to the County of Orange	Prior to recordation of an applicable subdivision map which creates building sites	County of Orange Director of Planning & Development Services	
b.	Prior to the recordation of an applicable final subdivision map, the subdivider shall submit a preliminary concept plan of the proposed private recreation facilities to the Manager, Current Planning Services, for review and approval. (Standard Condition CP02 Private Park Dedication)	Verify submission of a preliminary concept plan of private recreation facilities for review and approval	Prior to recordation of applicable final subdivision map	County of Orange Director of Planning & Development Services	
apr sha gra wh ma me HB Co SC eas hik	4.12-4 Prior to the recordation of each plicable subdivision map, the subdivider all reserve open space Lots for nting in fee to a homeowner's association o shall be responsible for their intenance and upkeep in a manner eting the approval of the Manager P/Program Management. (Standard ndition HP02 Open Space Dedications 4.12-5 The subdivider shall provide an sement for a recreational trail for riding and ing trail purposes in accordance with the owing:	Verify subdivider reserves identified open space lots for granting in fee to a homeowner's association	Prior to recordation of final tract map	Manager of Harbors, Beaches & Parks, Program Management	
а.	Prior to the recordation of an applicable subdivision map, the subdivider shall:	Verify subdivider would provide an easement for a	Prior to recordation of final tract map	County of Orange Manager of Harbors,	

	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
1.	Irrevocably offer a recreation easement for riding and hiking trail purposes in a location and in a manner meeting the approval of the Manager HBP/Program Manage- ment. The subdivider shall not grant any easement(s) over the property subject to the recreation easement unless such easements are first reviewed and approved by the Manager HBP/Program Manage- ment.	recreational trail for riding and hiking trail purposes		Beach & Parks Program Management	
2.	Design the necessary improvements for the trail, including, but not limited to grading, erosion control, signage, fencing, and a grade-separated crossing, as applicable, in a manner meeting the approval of the Manager HBP/ Program Management, in consultation with the Manager, Subdivision and Grading. Trail design shall also avoid affecting areas known to contain sensitive biological resources as identified in Section 4.9, Biological Resources.	Verify approval of design improvements for the trail by the Manager HBP/ Program Management	Prior to the issuance of precise grading permits	County of Orange Manager of Harbors, Beach & Parks Program Management in consultation with County of Orange Director of Planning & Development Services	
3.	Enter into an agreement, accompanied by financial security, with the County of Orange, to insure the installation of the necessary improvements.	Verify existence of an agreement accompanied by financial security with the County to insure installation of necessary improvements	Prior to the issuance of final certificates of use and occupancy	County of Orange Manager of Harbors, Beach & Parks Program Management in consultation with County of Orange Manager of Construction	

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	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
b.	Prior to the issuance of precise grading permits, applicant shall obtain approval from the Manager HBP/ Program Management, that the proposed grading provides for and will not interfere with or preclude the installation of the recreational riding and hiking trail.	Verify grading would not interfere with installation of recreational riding and hiking trail	Prior to the issuance of precise grading permits	County of Orange Director of Planning & Development Services County of Orange Manager of Harbors, Beach & Parks Program Management	
c.	Prior to the issuance of final certificates of use and occupancy and the release of financial security guaranteeing the riding and hiking trail improvements, the applicant shall install the riding and hiking trail improvements in a manner meeting the approval of the Manager HBP/ Program Management, in consultation with the Manager, Construction. (Standard Condition HP03 Recreation Easement for Regional Trail)	Verify installation of riding and hiking trail improvements meet the approval of the Manager of HBP/Program Management in consultation with the Manager of Construction	Prior to issuance of final certificates of use and occupancy and release of financial security	County of Orange Manager of Harbors, Beach & Parks Program Management in consultation with County of Orange Manager of Construction	
the de lm wc bik co de rec Bil wit co	M 4.12-1 In conjunction with approval of e first Master Area Plan, the applicant shall velop a Master Trail and Bikeways plementation Plan for the Ranch Plan that ould establish viable routes for trails and keways to provide connectivity to mmunity trails and bikeways in adjacent evelopments and with existing and proposed creational facilities. The Master Trail and keways Implementation Plan shall meet th the approval by the Director of PSD in unsultation with the Manager, Harbors, eaches & Parks Program Management.	Approval Master Trail and Bikeways Implementation Plan	Prior to approval of the first Master Area Plan	County of Orange Planning Director in conjunction with the Manager, Harbors, Beaches & Parks Program Management Area Plans are reviewed by Planning Commission	
MI PE Of Pla	INERAL RESOURCES DF 4.13-1 The project would provide for the NIS surface mining to continue within anning Area 5 as an interim use until such ne as development is proposed.	No separate monitoring is required. Continuation of mining is subject to conditions of lease and ability of ONIS to continue mining operations		· · · · · · · · · · · · · · · · · · ·	1

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Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
PDF 4.13-2 Temporary excavation/extraction	Verify temporary excavation/	Prior to issuance of a	County of Orange	
of construction aggregate or construction-	extraction of aggregate or	grading permit	Director of Planning	
related materials extraction shall be allowed	materials allowed during		& Development	
during construction grading and on-site	construction grading and on-		Services	
earthmoving activities to promote project	site earthmoving activities			
construction efficiencies and limit long			· · · · · · · · · · · · · · · · · · ·	
distance transportation of construction				
aggregate and construction related material.				
HAZARDS AND HAZARDOUS MATERIALS				
PDF 4.14-1 The project has been designed	Submittal of evidence	Prior to approval of Master	County of Orange	
to address potential impacts from the Prima	documenting the project	Plan for Planning Area 5	Director of Planning	
Deshecha landfill by incorporating setbacks	design incorporates setbacks		& Development	
from fill activities to avoid any potential	from fill activities to avoid any		Services (IWMD and	
exposure to potential hazardous materials	potential exposure to		OCFA)	
impacts that may be associated with landfill	potential hazardous materials	-		
activities.	impacts that may be			
	associated with landfill			
	activities			
PDF 4.14-2 The project provides for a	Approved landscape plan and	Prior to issuance of	County of Orange	
minimum 110-foot fuel modification zone	fuel modification plan	grading permits	Director of Planning	
surrounding all development areas.			& Development	
			Services (OCFA)	
PDF 4.14-3 A Wildland Fire Management	Approved Wildland Fire	Prior to issuance of	County of Orange	
Plan in contained in the Adaptive	Management Plan	grading permits	Director of Planning	
Management Program provided in Appendix			& Development	
J. The Adaptive Management Program is			Services (OCFA)	
further discussed in Section 4.9, Biological				
Resources.				
SC 4.14-1 Prior to the recordation of a	Submittal of Hazardous	Prior to the recordation of	County of Orange	
subdivision map, the subdivider shall submit	Materials Assessment and	a subdivision map	Director of Planning	
a "Hazardous Materials Assessment" and a	Disclosure Statement	•	& Development	
"Disclosure Statement" covering the property			Services	
(both fee and easement) which will be offered				
for dedication or dedicated to the County of	t i i i i i i i i i i i i i i i i i i i			
Orange or the Orange County Flood Control				
District, for review and approval by the				
Manager, Subdivision and Grading, in				
consultation with the Manager, PFRD/				
Environmental Resources. (Orange County				
Standard Condition of Approval HM-01)				
SC 4.14-2 Prior to the issuance of a grading	Submittal of Hazardous	Prior to issuance of a	County of Orange	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
or building permit, the contractor shall submit to the Fire Chief a list of all hazardous, flammable and combustible liquids, solids or gases to be stored, used or handled on site. These materials shall be classified according to the Uniform Fire Code and a document submitted to the Fire Chief with a summary sheet listing the totals for storage and use for each hazard class.	Materials Assessment and Disclosure Statement	grading and/or building permit	Director of Planning & Development Services (OCFA)	
MM 4.14-1 Prior to the issuance of a grading permit, the contractor shall develop an approved Health and Safety Contingency Plan (HSCP) in the event that unanticipated/ unknown environmental contaminants are encountered during construction. The plan shall be developed to protect workers, safeguard the environment, and meet the requirements of the California Code of Regulations (CCR), Title 8, General Industry Safety Orders–Control of Hazardous Substances.	Approved Health and Safety Contingency Plan	Prior to issuance of a grading permit	County of Orange Director of Planning & Development Services (OCFA)	
The HSCP should be prepared as a supplement to the Contractor's Site-Specific Health and Safety Plan, which should be prepared to meet the requirements of CCR Title 8, Construction Safety Orders.				
Specifically, the HSCP must:				
 Describe the methods, procedures, and processes necessary to identify, evaluate, control, or mitigate all safety and health hazards associated with any soil, groundwater and/or air contamination that may be encountered during field construction activities. 				
 Apply to all site construction workers, on- site subcontractors, site visitors, and other authorized personnel who are involved in construction operations. 				
3. Be approved by the Manager of				1

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Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
Subdivision and Grading Services (PDS) in consultation with the Manager of Environmental Resources (PFRD) and/or their appointed consultant team.				
The HSCP will take effect only if materials affected by environmental contaminants are exposed during construction. This includes undocumented waste materials, contaminated soils, affected groundwater, and related substances that may be classified as hazardous or regulated materials, and/or materials that could endanger worker or public health. If affected materials are encountered, the HSCP will be implemented to reduce the potential exposure to the environment and workers at the site. All site workers will be required to perform work in a prescribed manner to reduce the potential that they will endanger themselves, others, or the general public.				
MM 4.14-2 During construction, if environmentally affected soil, groundwater, or other materials are encountered on-site, the project engineer shall be quickly mobilized to evaluate, assess the extent of, and mitigate the affected materials. The contractor or owner's consultant shall be responsible for implementing all applicable sampling and monitoring of the project. At present, applicable sampling and monitoring activities are expected to include air monitoring (both for personal protection and SCAQMD Rule 1166 compliance), collecting soil and groundwater samples for analysis, and documenting mitigation activities. Specific applicable sampling and monitoring requirements will vary, depending upon the nature, concentration, and extent of affected materials encountered.	Show as notes on approved grading plans	Prior to issuance of grading permits	County of Orange Director of Planning & Development Services	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
MM 4.14-3 Prior to approval of Area Plan for areas within Planning Areas 1, 2, 3, 4, and 7, that have been used for agricultural activities where pesticides or herbicides have been used, the applicant shall conduct an investigation to assess the possible presence of residual pesticides and herbicides in accordance with applicable Department of Toxic Substance Control (DTSC) Guidance for Sampling Agricultural Soils. If necessary, a remediation program shall be developed and implemented for those areas where the soils testing program has identified that residual pesticides and herbicides exceed DTSC Guidance, to ensure soils meet standards for proposed uses within previous agricultural areas. If significant contamination is encountered, the results of the testing/ investigation, etc. will be provided to OCHCA, or other appropriate agency, for direction and oversight.	Approved site investigation to assess the possible presence of residual pesticides and herbicides in accordance with applicable Department of Toxic Substance Control (DTSC) Guidance for Sampling Agricultural Soils. Implementation of remediation program, if required.	Prior to approval of Subarea Plans for areas within Planning Areas 1, 2, 3, 4, and 7, that have been used for agricultural activities where pesticides or herbicides have been used	County of Orange Director of Planning & Development Services (Orange County Health Care Agency) Area Plans are reviewed by Planning Commission	
MM 4.14-4 Prior to issuance of a grading permit or a demolition permit for any on-site building constructed prior to 1973, the building shall be screened for lead-based paint prior to demolition. If lead-based paint is identified, it shall be mitigated in accordance with all applicable federal, state and local regulatory requirements.	Verification of screening for lead based paint; mitigation, if required	Prior to issuance of a grading permit or a demolition permit for any on-site building constructed prior to 1973	County of Orange Director of Planning & Development Services (Orange County Health Care Agency)	
MM 4.14-5 Prior to issuance of a demolition permit for any structure constructed before 1980, the applicant shall test for asbestos containing materials. Should the building being demolished contain asbestos, the applicant shall comply with notification and asbestos removal procedures outlined in SCAQMD Rule 1403 to reduce asbestos related health risks.	Verification of testing for asbestos; mitigation if required	Prior to issuance of a demolition permit for any structure constructed before 1980	County of Orange Director of Planning & Development Services (Orange County Health Care Agency, SCAQMD)	

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Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
MM 4.14-6 Prior to issuance of grading	Verification of removal of UST	Prior to issuance of a	County of Orange	
permits for Planning Areas 1, 3, 4, 5, and 8,	and AGT, fuel dispensers,	grading permit for	Director of Planning	
respectively, the applicant shall remove, or	clarifiers, and crushing	Planning Areas 1,3,4,5	& Development	
require the leaseholder to remove, all storage	equipment	and 8	Services (Orange	
tanks (UST and AGT), fuel dispensers,			County Health Care	
clarifiers and crushing equipment in			Agency)	
compliance with OCHCA regulations. This				
shall include soil and groundwater sampling				
in and around any existing UST's,			Area Plans are	
dispensers, clarifiers, crushing operations,			reviewed by	
and maintenance areas, with analysis for			Planning	
petroleum hydrocarbons, heavy metals, and			Commission	
PAHs to determine if any contaminates exist				
in the tank pit area or in surrounding areas. If				
contaminates exist, the level of impact shall		· · ·		
be assessed and a remediation plan shall be				
developed, if required pursuant to applicable				
laws and regulations. If significant				
contamination is encountered, the results of				
the testing/investigation, etc. will be provided				
to OCHCA, or other appropriate agency, for				
direction and oversight.				
MM 4.14-7 Prior to approval of Area Plan for	Verification of testing of soils,	Prior to approval of	County of Orange	
areas within Planning Areas 1, 3, and 5,	with subsequent remediation,	Subarea Plans for areas	Director of Planning	
respectively, where soil staining has been	if required.	within Planning Areas 1,	& Development	
identified, the applicant or leaseholder shall		3, and 5, respectively,	Services (Orange	
test the test the contaminated soils to assess		where soil staining has	County Health Care	
their level of impact and a remediation plan		been identified	Agency)	
shall be developed, if required pursuant to				
applicable laws and regulations. If significant				
contamination is encountered, the results of			Area Plans are	
the testing/investigation shall be provided to		1	reviewed by	
OCHCA, or other appropriate agency, for			Planning	
direction and oversight of the remediation.			Commission	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
MM 4.14-8 Prior to issuance of grading permits for the portion of Planning Area 3 currently occupied by Catalina Pacific Concrete (CPC), the applicant or leaseholder shall provide verification to OCHCA that the truck washout recycling pond and related chemicals within the CPC lease area have been dismantled/removed and the pond contents removed/disposed in compliance with applicable regulations.	Verification of dismantling of truck washout recycling pond and related chemicals within the CPC lease Area	Prior to issuance of grading permits for the portion of Planning Area 3 currently occupied by Catalina Pacific Concrete (CPC)	County of Orange Director of Planning & Development Services (Orange County Health Care Agency)	
MM 4.14-9 Prior to approval of an Area Plan for those locations within Planning Area 5 where the UST's were removed, and the overburden storage area where previously contaminated soil was relocated, the applicant or leaseholder shall conduct further investigation regarding the level of contamination. If contamination exists at a level that requires action pursuant to applicable laws and regulations, a remediation plan shall be prepared. If significant contamination is encountered, the results of the testing/investigation shall be provided to OCHCA, or other appropriate agency, for direction and oversight of the remediation.	Approved UST investigation with subsequent remediation, if required	Prior to approval of an Subarea Plans for those locations within Planning Area 5 where the UST's were removed, and the overburden storage area where previously contaminated soil was relocated	County of Orange Director of Planning & Development Services (Orange County Health Care Agency) Area Plans are reviewed by Planning Commission	
MM 4.14-10 Prior to approval of Area Plan for the Trampas Dam area of Planning Area 5, a Phase II testing program shall be developed and implemented to more precisely determine the chemical composition associated with the tailings within Trampas Dam. Once the nature of the tailings is known, a removal program shall be developed to ensure the proper handling and disposal of the material. If the testing program identifies a violation of applicable standards, a remediation program shall be	Approved Phase II testing program with subsequent remediation, if required	Prior to approval of a Master Area Plan for the Trampas Dam area of Planning Area 5	County of Orange Director of Planning & Development Services (Orange County Health Care Agency) Area Plans are reviewed by Planning Commission	
developed and verification of remediation to adopted standards will be submitted to OCHCA prior to issuance of grading permits.				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
MM 4.14-11 In conjunction with the Master	Verification of coordination	In conjunction with the	County of Orange	
Area Plan for Planning Area 8 the applicant	with U.S. Army Corps of	Master Area Plan for	Director of Planning	
shall contact the Army Corps of Engineers	Engineers	Planning Area 8	& Development	
Formerly Used Defense Sites coordinator to			Services (ACOE)	
determine if areas within the development				
area were used by the military as firing	Soil testing and subsequent	Prior issuance of grading	Area Plans are	
ranges. For any sites identified, plus the two	remediation, if required	permit	reviewed by	
areas within Planning Area 8 previously used			Planning	
for pistol ranges, the applicant or leaseholder	-		Commission	
shall provide verification of soil sampling and				
testing prior to issuance of a grading permit				
for those locations. If significant				
contamination is encountered, the results of				
the testing/investigation, etc. will be provided				
to OCHCA, or other appropriate agency, for				
direction and oversight (this may be the water				
board) that spent ammunition have been				
removed and soils tested to assess residual				
lead and copper concentrations. Soil with				
residual lead or copper concentrations				
exceeding US EPA's PRGs shall be removed				
from the property and disposed of at an				
appropriate facility.				
MM 4.14-12 Prior to approval of Area Plans	Approved Comprehensive	Prior to approval of a	County of Orange	
for the Northrop Grumman Space Technology	Closure Plan with subsequent	Master Area Plans for the	Director of Planning	
Test Site (TRW) lease portion of Planning	remediation, if required	Northrop Grumman Space	& Development	
Area 8, the applicant or leaseholder shall		Technology Test Site	Services (Orange	
develop a comprehensive closure plan to		(TRW) lease portion of	County Health Care	
assess, monitor, and mitigate any residual		Planning Area 8	Agency and	
threats to human health or the environment			Department of Toxic	
which may remain as a result of site			Substance Control)	
operations and closure. This plan shall				
address any existing, historical, or threatened				
releases of any hazardous substances or			Area Plans are	
petroleum products into structures, soil,			reviewed by	
and/or groundwater beneath the property at			Planning	
any of the locations where these chemicals			Commission	
have been/are used. The comprehensive				
closure plan shall comply with regulations put				
forth by the California Department of Toxic		1		
Substances (DTSC) which is tasked with				
enforcing the California Health and Safety				l

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
Code, Title 22 of the California Code of				
Regulations and Title 40 of the Code of				
Federal Regulations and the San Diego				
Regional Water Quality Control Board				
(SDRWQCB) which is tasked with enforcing				
the Water Code (Porter-Cologne Water				
Quality Control Act). If the comprehensive				
closure plan identifies the need for				
remediation, verification of completion of the				
remediation program shall be submitted to				
OCHCA, or other appropriate agency prior to				
issuance of grading permits for those areas				
subject to remediation.				
MM 4.14-13 Prior to issuance of grading	Approved updated	Prior to issuance of	County of Orange	
permits within each Planning Area, the	Environmental Site	grading permits	Director of Planning	
Environmental Site Assessments (ESAs) will	Assessment; preparation of		& Development	
be updated for that grading permit area. If	Phase II if required, with		Services (Orange	
the Phase I Update identifies new actual or	subsequent remediation, if		County Health Care	
potential impacts, a Phase II ESA will be	necessary		Agency and	
completed as necessary for the grading area	-		Regional Water	
by the landowner or subsequent project			Quality Control	
applicant. During the Phase II ESA, samples			Board)	
from potential areas of concern will be				
collected and submitted for laboratory				
analysis to confirm the nature and extent of				
potential impacts. If hazardous materials are				
identified during the site assessments, the				
appropriate response/remedial measures will	1			
be implemented including directives of the				
OCHCA and/or Regional Water Quality				
Control Board (RWQCB), as appropriate. If				
soil is encountered during site development				
that is suspected of being impacted by				
hazardous materials, work will be halted and				
site conditions will be evaluated by a qualified				
environmental professional. If requested by				
the qualified environmental professional, the				
results of the evaluation will be submitted to				
OCHCA and/or RWQCB, and the appropriate				
remedial measures will be implemented, as				
directed by OCHCA, RWQCB, or other				
applicable oversight agency, until all specified				<u> </u>

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
requirements of the oversight agencies are satisfied and a no-further-action status is attained.				
MM 4.14-14 The Master Area Plan prepared for those Planning Areas containing oil wells (Planning Areas 3 and 9) shall graphically depict the location of all oil wells. Prior to issuance of building permits for those locations with oil wells, the applicant shall submit verification that final building plans have undergone review by the Department of	Verification of graphic depiction of oil well locations	Prior to approval of Master Area Plans 3 and 9	County of Orange Director of Planning & Developmental Services (Division of Oil, Gas and Geothermal Resources)	
Conservation, Division of Oil, Gas, and Geothermal Resources and remedial action in compliance with well abandonment procedures has been completed.	Verification of review by Department of Conservation	Prior to issuance of building permits for those locations with oil wells.	Area Plans are reviewed by Planning Commission	
MM 4.14-15 Prior to approval of tentative subdivision maps and site-specific development projects within the project area, the landowner or subsequent project applicant shall submit evidence demonstrating compliance with all applicable OCFA conditions for development projects within a Special Fire Protection Area.	Verify submission of evidence demonstrating compliance with Special Fire Protection Area conditions	Prior to the approval of tentative subdivision maps	County of Orange Director of Planning & Development Services (OCFA)	
PDF 4.15-1 Construction of water storage and conveyance improvements consistent with the <i>Plan of Works for Improvement</i> <i>Districts 4C, 4E and 5 and</i> 6, prepared by Tetra Tech Inc. for SMWD would ensure sufficient water for all necessary fire protection systems.	Approved Water Improvements Plans with verification of subsequent construction	Prior to recordation of final tract map (alternatively subdivider may enter into subdivision improvement agreement with County)	County of Orange Director of Planning & Development Services (SMWD and OCFA)	
PDF 4.15-2 Roadways, with the exception of Verdugo Road and other local access roads in Planning Area 9, will be designed in conformance with the Orange County Standard Plans. This is supplemented with Mitigation Measure 4.15-2. Applicants may request alternative roadway designs as an Alternate Means and Methods, including roadways within Planning Area 9.	To be implemented with Mitigation Measure 4.15-2	N/A	N/A	No separate monitoring required

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Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
SC 4.15-1 Prior to the recordation of a subdivision map, the subdivider shall design and construct water distribution system and appurtenances that conform to the applicable laws and adopted regulations enforced by the County Fire Chief, in accordance with plans	Approved water improvement plans with subsequent construction of improvement	Prior to the recordation of a subdivision map (alternatively subdivider may enter into subdivision improvement agreement with County)	County of Orange Director of Planning & Development Services (OCFA)	
and specifications meeting the approval of the Manager, Subdivision and Grading. (County of Orange Standard Condition of Approval T04)				
MM 4.15-1 The Ranch Plan Fire Protection Program shall be approved prior to the approval of the first Area Plan. The Ranch Plan project shall conform to the Orange County Fire Authority (OCFA) Special Fire Protection Area (SFPA) Guidelines and exclusions shall be applied to the project by application on a subarea basis in conformance with the Ranch Plan Fire Protection Program. The project applicant shall participate in, and maintain, an approved OCFA Wildland Management Plan for all wildland interface areas and designed open spaces.	Approved Ranch Plan Fire Protection Program	Prior to approval of first Master Area Plan	County of Orange Director of Planning & Development Services (OCFA)	
Prior to approval of the first subdivision, the developer shall enter into a Secured Fire Protection Agreement with OCFA for the provision of necessary approved street improvement plans facilities, apparatus, and fire and rescue supplies and equipment for the Ranch Plan. This comprehensive plan will address fire and emergency medical service delivery within the project site, and will specify the timeframes and trigger points for initiation of services within the project by geographic area. The Secured Fire Protection Agreement shall ensure that OCFA fire protection and emergency medical performance objectives can be achieved for the Ranch Plan area. The applicant will ensure that development is phased in a	Approved Secured Fire Protection agreement	Prior to approval of first subdivision	Area Plans are reviewed by Planning Commission	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
matter that allows the maximum use of				
existing fire protection resources before new				
resources are required to be established.	ļ			
MM 4.15-2 As part of the Area Plan and	Approved street improvement	Prior to approval of	County of Orange	
tentative tract map process, the developer	plans	Subarea Plans and	Director of Planning	
shall coordinate with OCFA on street design		tentative tract maps	& Development	
to ensure arterial highways and local streets			Services (OCFA)	
meet OCFA requirements, provide adequate				
turn around locations and widths, and signal				
preemption is installed in all new traffic				
signals within the Ranch Plan area. For				
gated communities, emergency opening				
devices shall be installed.				
MM 4.15-3 Prior to approval of the first	Approved Ranch Plan Fire	Prior to approval of the	County of Orange	_
Master Area Plan, applicant shall gain	Protection Program	first Master Area Plan	Director of Planning	
Orange County Fire Authority (OCFA)			& Development	
approval of a Ranch Plan Fire Protection			Services (OCFA)	
Program, per the requirements of Section				
II.D, including a Planned Community-wide				
Fuel Modification Plan. If adaptive				
management tools (grazing, prescribed fires,				
etc.) for controlling the growth of vegetation				
surrounding Ranch Plan development are not				
successful and vegetation transitions from				
Fuel Model 2 (FM2) to Fuel Model 4 (FM4),				
as classified by the BEHAVE Fire Behavior				
Fuel Modeling System, the OCFA may				
choose a total Fuel Modification zone width				
based on the BEHAVE model anticipated				
flame lengths plus 20-feet for defensible				
space.				
PDF 4.15-3 A OCSD substation site would	Depict site on Master Area	In conjunction with Master	County of Orange	
be provided within the project limits to reduce	Plan	Area Plan approval	Director of Planning	
response times and better serve the Ranch			& Development	
Plan area.			Services (OCSD)	
Flatt alta.		4		
			Area Plans are	
			reviewed by	
			Planning	
			Commission	
MM 4.15-4 Prior to approval of the first	Executed agreement for	Prior to approval of the	County of Orange	
Iviivi 4.10-4 Phot to approvar of the first	Executed agreement ion			<u> </u>

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
tentative tract map, except for financing	Sheriff's service and support	first tentative tract map	Director of Planning	
purposes, the Orange County Sheriff's	facilities	except for financing	& Development	
Department and the project applicant shall		purposes	Services (OCFA)	
enter into an agreement specifying the level	,			
of service and supporting facilities needed to		-		
adequately serve the project area, and the				
amount of funding to be provided by the				
project applicant. The agreement will specify				
the timeframes and trigger points for initiation				
of services within the project by geographic				
area.				
PDF 4.15-4 The project design has	Approved electrical	Prior to recordation of final	County of Orange	
incorporated provisions for the construction of	improvement plans	tract map	Director of Planning	
up to two 138/12 kV electrical substations			& Development	
and a 138 kV transmission line to serve the			Services (SDG&E)	
substations. Additionally, the project would				
extend the 12-inch high power gas line along				
Ortega Highway from the west of I-5 to				
Antonio Parkway, and the construction of a				
gas regulating station at the corner of Antonio	-			
Parkway and Ortega Highway.				
PDF 4.15-5 Unless otherwise waived by the	Approved electrical	Prior to recordation of final	County of Orange	
Director, PDS, or determined not to be	improvement plans	tract map	Director of Planning	
feasible by SDG&E, all permanent electric			& Development	
transmission lines less than 66 kV shall be			Services (SDG&E)	
subsurface within those portions of the Ranch				
Plan approved for development.				
SC 4.15-2 Prior to recordation of final tract	Approved Electricity	Prior to recordation of final	County of Orange	
maps for the proposed land development	Availability Report	tract maps for the	Director of Planning	
area, the project applicant shall coordinate		proposed land	& Development	
with SDG&E in the design and		development area	Services (SDG&E)	
implementation of future electrical service				
and facilities (transmission lines, access road,		1		
etc.) within the project study area to ensure				
that: (1) no notable service disruptions during				
the extension and upgrading of these				
services would arise; (2) the nature, design,			1	
and timing of electrical system improvements		1		
are in accordance with all SDG&E				
requirements; and (3) the improvements are				
adequate to serve the proposed land uses.				

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
SC 4.15-3 Prior to recordation of final tract maps for the proposed land development area, the project applicant shall coordinate with SDG&E to ensure that no notable disruptions to the existing 138 kV transmission line that extends through the project study area would occur as a result of project implementation.	Verification to ensure that no notable disruptions to the existing 138 kV transmission line that extends through the project study area would occur as a result of project implementation.	Prior to recordation of final tract map	County of Orange Director of Planning & Development Services (SDG&E)	
SC 4.15-4 Prior to recordation of final tract maps for the proposed land development area, the project applicant shall coordinate with SoCalGas in the design and implementation of future natural gas service and facilities within the project study area to ensure that: (1) no notable service disruptions during the extension and upgrading of these services would arise; (2) the nature, design, and timing of natural gas system improvements are in accordance with SoCalGas requirements; and (3) the improvements are adequate to serve the proposed land uses.	Approved natural gas improvement plans	Prior to recordation of final tract map	County of Orange Director of Planning & Development Services (SoCalGas)	
PDF 14.5-6 The project has incorporated provisions for the placement and sizing of facilities in compliance with the Plan of Works developed by SMWD.	Approved water improvement plans	Prior to recordation of final tract map	County of Orange Director of Planning & Development Services (SMWD)	
SC 4.15-5 Prior to recordation of final tract maps for the proposed land development area, the project applicant shall coordinate with SMWD and MWD to ensure that no notable disruptions to the existing domestic and non-domestic water facilities that extend through the project study area would occur as a result of project implementation.	Verification to ensure that no notable disruptions to the existing domestic and non- domestic water facilities that extend through the project study area would occur as a result of project implementation	Prior to recordation of final tract map	County of Orange Director of Planning & Development Services (SMWD, and MWD)	

plans, the project applicant shall coordinate with SMWD to determine specific sizing and placement of water facilities. plans approval Director of Planning & Development Services (SMWD) PDF 14.5-7 The project has incorporated provisions for the placement and sizing of watewater treatment and conveyance facilities as pecified in the Plan of Works. Approved wastewater Improvement plans Prior to recordation of final courty of Orange Director of Planning & Development Services (SMWD) SC 4.15-7 The project applicant shall coordinate with SMWD to ensure that no notable disruptions to the existing sever conveyance facilities, which extend through the project study area, would occur as a result of project implementation. Prior to approval of Subaro of Planning & Development Services (SMWD) SC 4.15-8 During development of area plans, the project applicant shall coordinate with SMWD to determine specific sizing and placement of avastewater facilities, which extend through the project applicant shall coordinate with SMWD to determine specific sizing and placement of avastewater facilities. Prior to approval of Subaro of Subaro approval of Orange Director of Planning & Development Services (SMWD) PDF 4.15-8 The project description provides to the ensure facilities. Depict sites on Master Area Plan Prior to approval of Master Area Plan Subaro approval of Orange Director of Planning & Development Services (SMWD) Area Plans are reviewed by Planning Commission - County of Orange Director of Planning & Development Services (SMWD) PDF 4.15-8 The project description provides to the land use plan. The project ap	Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
PDF 14.5-7 The project has incorporated provisions for the placement and sizing of wastewater treatment and conveyance facilities as specified in the Plan of Works.Approved wastewater improvement plans tract plansPrior to recordation of final tract plansCounty of Orange Director of Planing & Development area, the project applicant shall coordinate which extend through the project implementation.Prior to recordation of final tract plansCounty of Orange Director of Planing & Development Services (SMWD)SC 4.15-7 Third to record the proposed land development area, the project applicant shall coordinate timplementation.Verification of coordination to ensure that no notable sever conveyance facilities, which extend through the project implementation.Prior to recordation of final tract mapsCounty of Orange Director of Planing & DevelopmentSC 4.15-8 During development of area plans, the project despicant shall coordinate with SMWD to determine specific sizing and placement of wastewater facilities.Approved wastewater improvement plansPrior to approval of Subarea PlanCounty of Orange Director of Planing & Development Services (SMWD)PDF 4.15-8 The project description provides for the incorporation of school sites into the land use plan. The project description provides for the incorporation of school sites into the land use plan. The project description provides for the incorporation of school sites, if demend necessary by CUSD. The precise number, location and combination of elementary and joint elementary and middleDepict sites on Master Area PlanPrior to approval of Master Area PlanCounty of Orange Director of Planning & Development Services (SU	with SMWD to determine specific sizing and			& Development	
provisions for the placement and sizing of wastewater treatment and conveyance facilities as specified in the Plan of Works.improvement planstract plansDirector of Planning & Development facilities as specified in the Plan of Works.SC 4.15-7 Prior to recordation of final tract maps for the proposed land development area, the project applicant shall coordinate with SMWD to ensure that no notable disruptions to the existing sewer conveyance facilities, which extend through the project study area, would occur as a result of project implementation.Verification of coordinate which extend through the project sewer conveyance facilities, which extend through the project applicant shall coordinate with SMWD to determine specific sizing and placement of wastewater facilities.Verification of coordinate which extend through the project implementation.Prior to approval of Subarea PlanCounty of Orange Director of Planning & Development Services (SMWD)PDF 4.15-8 The project description provides for the incorporation of school sites, into the sup to five elementary school sites, one middle school would be determined in consultationDepict sites on Master Area PlanPrior to approval of Master Area PlanCounty of Orange Director of Planning & Development Services (SMWD)PDF 4.15-8 The project description provides for the incorporation of school sites, into the school would be determined in consultation school would be determined in consultationDepict sites on Master Area PlanPrior to approval of Master Area PlanCounty of Orange Director of Planning & Development Services (CUSD)PDF 4.15-8 The project description provides for the incorporation of school site, if deeme				reviewed by Planning	
maps for the proposed land development area, the project applicant shall coordinate with SMWD to ensure that no notable disruptions to the existing 	provisions for the placement and sizing of wastewater treatment and conveyance facilities as specified in the Plan of Works.			Director of Planning & Development	
plans, the project applicant shall coordinate with SMWD to determine specific sizing and placement of wastewater facilities.improvement plansSubarea PlanDirector of Planning & Development Services (SMWD)PDF 4.15-8 The project description provides for the incorporation of school sites into the land use plan. The project design assumes up to five elementary school sites, one middle school site, and a potential high school site, if deemed necessary by CUSD. The precise 	maps for the proposed land development area, the project applicant shall coordinate with SMWD to ensure that no notable disruptions to the existing sewer conveyance facilities, which extend through the project study area, would occur as a result of project implementation.	ensure that no notable disruptions to the existing sewer conveyance facilities, which extend through the project study area, would occur as a result of project implementation		Director of Planning & Development Services (SMWD)	
for the incorporation of school sites into the land use plan. The project design assumes up to five elementary school sites, one middle school site, and a potential high school site, if deemed necessary by CUSD. The precise number, location and combination of elementary and joint elementary and middle school would be determined in consultation	SC 4.15-8 During development of area plans, the project applicant shall coordinate with SMWD to determine specific sizing and			Director of Planning & Development Services (SMWD) Area Plans are reviewed by Planning Commission	
SC 4.15-9 Prior to the recordation of final Monitored through N/A N/A No separate	for the incorporation of school sites into the land use plan. The project design assumes up to five elementary school sites, one middle school site, and a potential high school site, if deemed necessary by CUSD. The precise number, location and combination of elementary and joint elementary and middle		Area Plan	Director of Planning & Development Services (CUSD) Area Plans are reviewed by Planning Commission	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
tract map, the project applicant shall provide for the payment of fees pursuant to California Government Code Section 65995, unless other provision are required of the applicant through the agreement with CUSD (see Mitigation Measure 4.15-5).	compliance with MM 4.15-5			monitoring required
MM 4.15-5 Prior to issuance of any residential building permit, excluding senior housing, the applicant shall enter into an agreement with CUSD regarding the development of future facilities and payment of costs. The agreement shall, at a minimum, provide for the payment of fees pursuant to California Government Code Section 65995. If fees are paid, the amount of fees to be paid will be determined based on the established State formula for determining construction costs. Applicable fees shall be paid prior to the issuance of each building permit.	Executed Mitigation Agreement	Prior to issuance of residential building permits	County of Orange Director of Planning & Development Services (CUSD)	
SC 4.15-10 Prior to approval of the first master area plan, a Solid Waste Management Plan shall be prepared and submitted to OCIWMD for review and approval. This plan, which shall include specific measures to reduce the amount of refuse generated by construction of the proposed project, shall be developed to meet	Submittal of satisfactory Solid Waste Management Plan	Prior to approval of the first Master Area Plan	County of Orange Director of Planning & Development Services, and Integrated Waste Management Department	
waste reduction requirements established by the California Integrated Waste Management Act of 1989.			Area Plans are reviewed by Planning Commission	
MM 4.15-6 Prior to recordation of final tract maps where the relocation of the Santa Fe Pipeline is required, except for financing purposes, the project applicant shall coordinate with the pipeline owner, Kinder- Morgan, to ensure that no notable disruptions to the fuel pipeline that extends through the project site would occur as a result of project implementation. Should an alignment for the SR-241 alignment be selected at the time of	Verification of coordination with the pipeline owner, Kinder-Morgan, to ensure that no notable disruptions to the fuel pipeline that extends through the project site would occur as a result of project implementation	Prior to recordation of final tract maps where the relocation of the Santa Fe Pipeline is required	County of Orange Director of Planning & Development Services	

Mitigation Measure	Implementing Action	Time of Verification	Responsible Party	Status
recordation of the final tract maps, the relocation will not place the pipeline within the right-of-way for the SR-241 extension, nor preclude the relocation of any portion of the pipeline currently within the right-of-way for the SR-241 alignment.				
SC 4.15-11 Prior to the recordation of any final tract/parcel map for the proposed land development area, the project proponent shall pay appropriate developer fees, as determined by the County of Orange, for needed library facilities.	Verify payment of developer fees via a payment receipt, if program is in place at the time of map recordation	Prior to the recordation of any final tract/parcel map except for financing programs	County of Orange Director of Planning & Development Services	