DRAFT-FINAL ENVIRONMENTAL IMPACT REPORT

OTAY RANCH RESORT VILLAGE SCH# 2004101058

GPA 04-003, SP 04-002, REZ 04-009, STP 19-033 and TM 5361 RPL1 Environmental Log Number ER 04-19-005

Lead Agency:

County of San Diego Planning and Development Services 5510 Overland Ave., Suite 310 San Diego, California 92123

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Lead Agency:

County of San Diego
Planning and Development Services
5510 Overland Ave., Suite 310
San Diego, California 92123
Contact: Greg Mattson, Project Manager

Preparer:

AECOM 401 W A St., Suite 1200 San Diego, California 92101

Project Proponent:

Baldwin & Sons, LLC Moller Lakes Investment, LLC

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LIST OF ACRONYMS AND ABBREVIATIONS

AB Assembly Bill average daily trips afy acre-feet per year

ALUCP Airport Land Use Compatibility Plan

AMSL above mean sea level

APCD Air Pollution Control District AQIS Air Quality Impact Analysis

ARB Air Resources Board

ASTM American Society for Testing and Materials

ATCM air toxic control measure
BLM Bureau of Land Management
BMP best management practice

B.P. before presentBRT Bus Rapid TransitBTU British Thermal Units

CAA Clean Air Act

CAAQS California Ambient Air Quality Standards

CAFE Corporate Average Fuel Economy

CalARP California Accidental Release Prevention
CalEPA California Environmental Protection Agency

Cal Fire California Department of Forestry and Fire Protection

Caltrans California Department of Transportation

CBC California Building Code

CCAP California Climate Action Protocol
CCR California Code of Regulations

CDC California Department of Conservation
CDFG California Department of Fish and Game
CDI Construction, Demolition, and Inert debris
CDMG California Division of Mines and Geology

CEC California Energy Commission

CEQA California Environmental Quality Act

CFC California Fire Code

CFD Community Facilities District

cfh cubic feet per hour

CFR Code of Federal Regulations

CH₄ methane

CHHSL California Human Health Screening Level

CIP Capital Improvement Plan

CIWMB California Integrated Waste Management Board

CLUP Comprehensive Land Use Plan
CMP Congestion Management Plan
CNEL Community Noise Equivalent Level
CNPS California Native Plant Society

CNRA California National Resources Agency

CO carbon monoxide CO₂ carbon dioxide CO₂e CO₂ equivalents

CPA California Power Authority

CPEP Community Protection and Evacuation Plan

CRA Colorado River Aqueduct
CSD Community Services District
CUDA Current Urban Development Area
CVESD Chula Vista Elementary School District

CVFD Chula Vista Fire Department CVPD Chula Vista Police Department

CVT Chula Vista Transit
CWA Clean Water Act
cy cubic yards
dB decibel

dBA A-weighted decibel

DEIR Draft Environmental Impact Report

DOE Department of Energy

DOT Department of Transportation

DPR Department of Parks and Recreation

DPW Department of Public Works

DTSC Department of Toxic Substances Control

du/acre dwelling units per acre

DWR Department of Water Resources
ECA Environmentally Constrained Area
EDR Environmental Data Resources

EDU equivalent dwelling unit EIR Environmental Impact Report

EISA Energy Independence and Security Act

EPP Emergency Preparedness Plan ESA Endangered Species Act

EUCSPA Eastern Urban Center Sectional Planning Area

°F degrees Fahrenheit FCV fuel cell vehicle

FEMA Federal Emergency Management Agency

FFS free-flow speed FFV flexible fuel vehicles FIRM Flood Insurance Rate Map

FMMP Farmland Mapping and Monitoring Program

FPP Fire Protection Plan

FRAP Fire and Resource Assessment Program

FTA Federal Transit Administration FUDS Formerly Used Defense Site

GCC global climate change
GDP General Development Plan
GGE greenhouse gas equivalent

GHG greenhouse gas

GIS Geographic Information System

GMOC Growth Management Oversight Committee

GPA general plan amendment gallons per minute gpm General Plan Update **GPU** global warming potential **GWP** H&SC Health and Safety Code Highway Capacity Manual **HCM HCP** Habitat Conservation Plan Highway Design Manual **HDM**

HFC hydrofluorocarbon

HMP Hydromodification Management Plan

HOA Homeowner Association
HOV high-occupancy vehicle
HRA health risk assessment
HSA Hydrologic Subarea

I Interstate

ICBO International Conference of Building Officials

ILV Intersecting Lane Volume

in/sec inches per second

IPCC Intergovernmental Panel on Climate Change

IPM Integrated Pest Management IPR Integrated Resource Plan

IWMAIntegrated Waste Management ActIWMPIntegrated Waste Management PlanJEPAJoint Exercise of Powers Agreement

JURMP Jurisdictional Urban Runoff Management Program

kW kilowatt kWh kilowatt hours

L_{eq} average noise level over a measured period of time

LAFCO Local Agency Formation Commission
LARA Local Agricultural Resource Assessment

LCFS Low Carbon Fuel Standard

LEED Leadership in Energy and Environmental Design

LEV Low-Emission Vehicle LID low-impact development

LOS level of service

MCL Maximum Contaminant Level MEI Maximally Exposed Individual

mgd million gallons per day
MMBTU million British thermal units
MMT millions of metric tons
mpg miles per gallon

mpg miles per gallon mph miles per hour

MPO Metropolitan Planning Organization

MRZ Mineral Resource Zone

MSCP Multiple Species Conservation Program

MSR Municipal Service Review

MT metric tons

MTS Metropolitan Transit System

MU mixed-use

MUP Major Use Permit

MWD Metropolitan Water District

N₂O nitrous oxide

NAAQS National Ambient Air Quality Standards
NAHB National Association of Homebuilders
NAHC Native American Heritage Commission
NCCP Notional Communities Conservation Plant

NCCP National Communities Conservation Planning
NHTSA National Highway Traffic Safety Administration

NO₂ nitrogen dioxide NO_x nitrogen oxide

NOA naturally occurring asbestos

NOP Notice of Preparation

NPDES National Pollutant Discharge Elimination System

NSLU noise sensitive land use

O₃ ozone

OEHHA Office of Environmental Health Hazard Assessment

OES Office of Emergency Services
OHP Office of Historic Preservation
OPR Office of Planning and Research

ORWMP Otay River Watershed Management Plan

OVRP Otay Valley Regional Park

OWD Otay Water District

Pb lead

PCB polychlorinated biphenyl PCC Portland Cement Concrete

PDS Planning and Development Services
PEIR Program Environmental Impact Report

PFC perfluorocarbon

PFE Public Facilities Element

PFFP Public Facilities Financing Plan
PHEV plug-in hybrid electric vehicle
PLDO Park Land Dedication Ordinance

PM_{2.5} fine particulate matter

PM₁₀ suspended particulate matter POM Preserve Owner Manager

ppm parts per million PPV peak particle velocity

PRG Preliminary Remediation Goal QCB Quino checkerspot butterfly

QSA Qualification Settlement Agreement

RAQS Regional Air Quality Strategy
RCP Regional Comprehensive Plan
RDA Rural Development Area
RFPD Rural Fire Protection District

RGMS Regional Growth Management Strategy

RLUE Regional Land Use Element RMP Resource Management Plan

ROG reactive organic gas

RPO Resource Protection Ordinance RPS Renewables Portfolio Standard RTP Regional Transportation Plan

RWQCB Regional Water Quality Control Board SANDAG San Diego Association of Governments

SB Senate Bill

SCS Soil Conservation Service

SD Sanitation District
SDAB San Diego Air Basin

SDAPCD San Diego Air Pollution Control District

SDCFASan Diego County Fire AuthoritySDCGHGISan Diego County GHG InventorySDCWASan Diego County Water Authority

SDG&E San Diego Gas and Electric

SF₆ sulfur hexafluoride

SIP State Implementation Plan SLT screening level threshold

SMAQMD Sacramento Metropolitan Air Quality Management District

SMARA Surface Mining and Reclamation Act

SO₂ sulfur dioxide SPA Specific Plan Area

SR State Route
SRA Subregional Area
SRP Subregional Plan

SRS Sensitive Resource Study

SSA Special Study Area

SSM Storm Water Standards Manual

SUHSD Sweetwater Union High School District
SUSMP Standard Urban Storm Water Mitigation Plan

SVSD Spring Valley Sanitation District SWMP Storm Water Management Plan

SWP State Water Project

SWPPP Storm Water Pollution Prevention Plan SWPG Source Water Protection Guidelines SWRCB State Water Resources Control Board

TAC toxic air contaminant

TDIF Transportation Development Impact Fees

TDS total dissolved solids

TIF Transportation Impact Fee
TIS Traffic Impact Study

tentative maps TM TOC total organic carbon total suspended solids TSS **TWSC** two-way-stop controlled **UBC** Uniform Building Code $\mu g/m^3$ micrograms per cubic meter USACE U.S. Army Corps of Engineers U.S. Department of Agriculture **USDA**

USEPA U.S. Environmental Protection Agency

USFWS U.S. Fish and Wildlife Service USGBC U.S. Green Building Council USGS U.S. Geological Survey

USMC U.S. Marine Corps

UWMP Urban Water Management Plan

v/cvolume-to-capacity ratioVMTvehicle miles traveledVOCvolatile organic compoundsWCIWestern Climate Initiative

WPO Watershed Protection, Storm Water Management, and Discharge Control

Ordinance

WSA Water Supply Assessment

WSA&V Water Supply Assessment and Verification Report

WUI wildland urban interface

WURMP Watershed Urban Runoff Management Program

SUMMARY

S.1 **Project Synopsis**

Project Description

Baldwin & Sons, LLC, and JPB Development Moller Lakes Investment, LLC (Project applicants), have submitted to the San Diego County Department of Planning and Development Services (PDS) applications for general plan amendments (GPA), specific plan, rezone, and tentative maps (TM) for the proposed Otay Ranch Resort Village (Project). Since the release of the 2015 Draft EIR a change in the applicants has occurred as well some of the PDS project numbers. The Project includes the proposed development of 1,881 single-family dwelling units, a mixed-use area with 57 multi-family residences and up to 20,000 square feet of neighborhood commercial uses, and a 17.4-acre resort hotel that would consist of up to 200 guest rooms and up to 20,000 square feet of ancillary commercial/office uses, including meeting rooms, a conference center, offices, shops, and restaurants. The Project also includes an elementary school site, nine park sites, a public safety site that could house a fire station and law enforcement storefront, approximately 1,089 acres of Preserve open space, and approximately 144 acres of other open space. Preserve open space is generally undisturbed land or restored habitats set aside for dedication to the public while the nonpreserve open space designation generally includes the fuel modification zone and exterior manufactured slopes within the Project development footprint and excludes internal residential manufactured slopes. Internal circulation makes up approximately 39.1 acres.

Project Location and Environmental Setting

The proposed Project site consists of approximately 1,869 acres located on Otay Lakes Road in southwestern San Diego County (County), east of Chula Vista. The Project is a portion of Otay Ranch, which covers approximately 23,000 acres within the jurisdictions of the County and the City of Chula Vista and for which a Program Environmental Impact Report (PEIR; SCH No. 89010154) was certified by the County and Chula Vista in 1993.

Access to the Project site is provided by Otay Lakes Road, east of Wueste Road, via three proposed entrance roads. The topography of the Project site is characterized by a broad mesa sloping to the south, broken by several steep canyons draining from north to south. The Project site elevations range from approximately 500 feet above mean sea level (AMSL) to approximately 900 feet AMSL in the proposed neighborhood development areas; and also include elevations up to approximately 1,600 feet AMSL in the open space areas. The Project site lies within the watershed of the Otay River, which drains an area of approximately 145 square miles. The EastLake Vistas residential community and the U.S. Olympic Training Center are located approximately one-quarter mile to the west of the Project site; Lower Otay Lake Reservoir is to the south; Upper Otay Lake Reservoir is to the northwest; and lands preserved as open space are located to the north and east. The Project site is currently vacant with vegetation consisting of native coastal sage scrub and disturbed grassland habitats. Riparian vegetation occurs in drainages located within the Project site.

The Project site would be constructed in multiple phases as shown in **Table 1.0-5**, to ensure construction of necessary infrastructure and amenities for each phase. **Figure 1.0-10** depicts the Conceptual Phasing Plan, which reflects anticipated absorption for the proposed land uses. The Conceptual Phasing Plan is non-sequential to allow for adjustments in response to market changes, economic conditions, or regulatory constraints. Project development is divided into multiple phases, as shown with different colors in **Figure 1.0-10**. The PFFP imposes specific facilities requirements on each development phase to ensure the Otay SRP facility thresholds are met for each phase of development.

Project Features

Single-Family Residential Uses

As shown in **Figure 1.0-1** and as depicted in **Table 1.0-3**, 525.1 acres (28.1 percent) of the total Project site would be designated as single-family residential, which would accommodate 1,881 homes. This designation would allow for five single-family residential neighborhoods, with an average density ranging from 3.2 to 4.4 dwelling units per acre (du/acre). Site Plans would be required to refine the design, architecture, and landscape architecture for the proposed single family neighborhoods.

Multiple-Use

The Project site would include a 14.1-acre multiple-use (MU) area located adjacent to Otay Lakes Road, north of the Strada Piazza entrance to the community. As shown in **Table 1.0-3**, the MU designation would allow for 57 attached homes and up to 20,000 square feet of neighborhood commercial, retail, and office uses. A Site Plan would be required to refine the development program, facilities, site design, architecture, and landscape architecture for the proposed mixed-use area.

Resort Uses

The proposed Resort site would be located on a 17.4-acre promontory in the southeastern portion of the Project site. The resort land use designation would allow a hotel with up to 200 guest rooms and up to 20,000 square feet of ancillary commercial/office uses, including meeting rooms, a conference center, offices, shops, and restaurants. A Site Plan would be required to refine the development program, facilities, site design, architecture, and landscape architecture for the proposed resort uses.

Parks and Recreation Uses

The Project site would include 28.6 acres of parks on nine park sites. As illustrated in **Figure 1.0-1** and as shown in **Table 1.0-3**, the P-5 neighborhood park is 10.3 acres and would be located in the Village Core, adjacent to the elementary school site and the public safety site. The P-5 park and five additional public parks (P-1, P-2, P-3, P-4, and P-8) located within residential neighborhoods, would be maintained by an assessment district/mechanism. Three parks (P-6, P-7, and P-9) are planned as private parks, to be maintained by an HOA.

Public Uses

The 1993 Otay Ranch Facility Implementation Plan located a fire station within Village 15. Village 15 has been acquired for conservation purposes. To ensure that a site for future fire services is available, the Project reserves a 2.1-acre public safety site, which could house a fire station and a law enforcement storefront. As depicted in **Figure 1.0-1**, the public safety site would be located in the Village Core, across from the elementary school site.

The 1993 Otay SRP located an elementary school within Village 15. However, Village 15 has been acquired for conservation purposes. To ensure that a site for future school services is available, the Project proposes to locate the Village 15 elementary school to the Project site, with the designation of a 10-acre elementary school site located in the Village Core, adjacent to the neighborhood park (P-5).

Open Space

Approximately 144.0 acres of the Project site are designated as Open Space. This designation generally includes the fuel modification zone and exterior manufactured slopes within the Project development footprint and excludes internal residential manufactured slopes. Open space areas are planned to be maintained by either an HOA or an assessment district/mechanism, consistent with the requirements of the Resort Village Specific Plan.

Otay Ranch Preserve

The Land Use Plan designates approximately 1,089.0 acres of the 1,869-acre Project site (approximately 58.3 percent of the site) as Preserve land, which will be offered for dedication to the Otay Ranch Preserve system. Preserve land is generally undisturbed land or restored habitats set aside for dedication to the public. The Preserve land would be maintained by the Otay Ranch POM, the funding of which would be through an assessment district/mechanism.

The Specific Plan design calls for development on terraces integrated into the natural landform to minimize grading, optimize views, and promote passive solar heating and cooling opportunities. The goal of the proposed Land Use Plan is to concentrate development on the flatter areas (e.g., mesas and hilltops) that would result in undulating slopes of variable horizontal and vertical gradients and integrate Project development into the natural landform. Approximately 14.2 million cubic yards of cut and 14.2 million cubic yards of fill are proposed in a balanced grading operation.

The Specific Plan includes a Landscape Concept Plan, depicted in **Figure 1.0-3**. This style includes flowing, informal, timeless forms, pedestrian scaled building masses, indoor/outdoor spaces, and use of warm, natural materials and colors. Maintenance of the various components of the Landscape Concept Plan is detailed in the Specific Plan's Landscape Maintenance Plan. A "California friendly" landscape palette corresponds with the different landscape zones identified in **Figure 1.0-3** and is proposed to reduce water use and wildfire risk. This plant palette can be found in the Resort Village Design Plan, Resort Village Fire Protection Plan, Resort Village Preserve Edge Plan, and Resort Village Water Conservation Plan.

The Project would be served by Otay Water District for potable water and by the San Diego County Sanitation District and the City of Chula Vista for wastewater disposal. All connections to existing water and sewer lines would be provided via Otay Lakes Road, which would be widened from two lanes to four lanes from Wueste Road to the second Project entrance road. A 5-million-gallon water reservoir would be installed on-site. A fire station for the County Rural Fire Protection District would be constructed on-site; and a County Sheriff's storefront station would be provided on-site. Chula Vista Elementary School District and Sweetwater Union High School District would serve the Project.

S.2 <u>Summary of Significant Effects and Mitigation Measures that Reduce or Avoid the Significant Effects</u>

Table S.1 provides a brief summary of each potential environmental effect found to be significant with implementation of the proposed Project, the mitigation measures that would reduce or avoid that effect, and the conclusion as to whether the effect is reduced to below a level of significance by applying the mitigation measures. The table also includes the subchapters of this Environmental Impact Report (EIR) where each topic is analyzed in detail.

In addition to the mitigation measures listed in Table S.1, a set of environmental design considerations (also referred to as project design features) are provided in Chapter 7.0 and will be implemented with the proposed Project.

S.3 **Areas of Controversy**

The Notice of Preparation (NOP) for the EIR was distributed on October 14, 2004, for a 30-day public review and comment period. Public comments were received on the NOP reflect concern and/or controversy over several environmental issues. The NOP and NOP comment letters are in **Appendix A** of this EIR. Major environmental issues and potential areas of controversy were raised in nine letters commenting on the NOP, as listed below:

- Native American cultural resources
- Traffic congestion
- School impacts
- Parks and recreation
- Biological resources
- Provision of public services and utilities (fire, police, water, sewer, energy)
- On-site hazardous materials impacts
- Growth-inducing impacts
- Visual impacts/aesthetics
- Long-term governmental jurisdiction

In addition, a public scoping meeting was held on November 3, 2004, at the Chula Vista Civic Center, located at 276 Fourth Avenue, Chula Vista, California. No comments were received during the public scoping meeting. Issues raised in the NOP comment letters are evaluated in the EIR, in Chapters 2.0 through 4.0.

In addition to potentially controversial issues identified during the NOP process, air quality and noise impacts and greenhouse gas emissions would result from the increase in traffic from an estimated 27,177 new average daily trips. Traffic, air quality, and noise impacts would also result from the need for on-site blasting during Project grading. The Project would also extend road improvements and water and sewer service that would have a potential growth-inducing impact on undeveloped lands to the east of the site.

The following Major Project Issues were raised by County staff during review of the proposed Project:

Hydromodification Report: The project was required to comply with the (IHC) Interim Hydromodification Criteria (IHC). The project is directly upstream from a waterbody (Otay Lakes Reservoir) that may be exempt, but the project discharges upstream of the waterbody in more than one basin.

DPW Modification Requests: The Project proposed street sections different from the County of San Diego's adopted public street sections.

Site Plans: The proposed rezone should require a Site Plan approval for the resort, single-family areas, commercial area, multi-family area and the public services areas by adding a Special Area Designator "D" in the proposed zone box.

Fire Response Time: Discussions on fire service state that the development is required to meet the 5-minute response time pursuant to the Public Facilities Element of the County's General Plan.

Preserve Design/MSCP Hardline/ Agency Concurrence – Revegetated manufactured slopes do not have sufficient biological value to warrant mitigation credit. A MSCP major amendment may be required for the current proposal if the Agencies do not accept the like or equivalent findings.

Recycled Water – The proposed project does not propose to use recycled water due to the proximity to Lower Otay <u>LakeReservoir</u>, a drinking water source owned and operated by the City of San Diego. The City of San Diego expressed concerns regarding the use of recycled water upstream of the reservoir. As a result, the project requested, and OWD prepared, a revised Water Supply and Assessment Verification Report which evaluated the project's using only potable water.

City of San Diego Concurrence: The City of San Diego has reviewed the project drainage and water quality studies; however, the City must still review the proposed impacts and mitigation for widening Otay Lakes Road through their MSCP Cornerstone Lands.

Chula Vista Sewer Agreement: <u>A sewerage transportation agreement between the City of Chula Vista and County has been executed for the use of the Salt Creek Sewer Interceptor to transport sewerage for treatment by the City of San Diego Metropolitan Sewerage System. The option for Chula Vista to provide sewer service to this development should be accompanied by a Sewer Agreement ensuring treatment capacity.</u>

S.4 <u>Issues to be Resolved by the Decision-Making Body</u>

The County Board of Supervisors would be required to make decisions concerning the significant impacts to aesthetics, air quality, biological resources, cultural resources, geology and soils, hazards and hazardous materials, noise, transportation and traffic, and solid waste that can be avoided and/or reduced to less than significant with mitigation measures, and significant impacts to aesthetics, air quality, and solid waste that cannot be avoided and/or reduced to less than significant with mitigation measures. Findings are required to be adopted for each significant impact that shows the Project has been changed (including adoption of mitigation measures) to avoid or substantially reduce the magnitude of the impact. The Board of Supervisors must also determine that adopted mitigation measures are feasible and would be implemented during the design and construction phases of the Project.

S.5 **Project Alternatives**

Alternatives are required to be identified and evaluated to determine if they would lessen or avoid the significant impacts identified in Chapter 2.0. These alternatives are described and evaluated in Chapter 4.0. The No Project Alternative would result in no development of the Project site. Six site development alternatives have been selected based on either achieving the same 1,938 dwelling units as the proposed Project while increasing the total acreage of proposed preserve and open space (Alternatives B, D, and F, and H), or reducing the number of dwelling units and increasing the total acreage of preserve and open space (Alternatives C, E, and G). Alternative C would reduce the Project to 1,241 dwelling units, Alternative E would reduce the Project to 1,391 dwelling units, and Alternative G would reduce the Project to 465 dwelling units.

The development alternatives that would reduce significant impacts in comparison to the proposed Project are listed below. The issues for which each alternative would have a lesser impact than the proposed Project are shown in parenthesis. The following list begins with the most environmentally superior alternatives followed by the inferior alternatives:

- Alternative G (aesthetics, air quality, biological resources, cultural resources, noise, and transportation and traffic, and global climate change);
- Alternative H (aesthetics, air quality, biological resources, cultural resources, noise, and global climate change);
- Alternative C (aesthetics, air quality, biological resources, cultural resources, and solid waste, and global climate change));
- Alternative E (aesthetics, air quality, <u>biological resources</u>, cultural resources, noise, and transportation and traffic, and global climate change);
- Alternative D (aesthetics, biological resources, and cultural resources, and global climate change); and
- Alternative F (air quality, biological resources, and cultural resources, and global climate change).

Alternative B is not listed above because it would not reduce significant impacts in comparison to the proposed Project.

Chapter 4.0 of the EIR concludes that Alternative G would be considered the environmentally superior alternative.

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and		Conclusion and Mitigation		
Description of Impact	Mitigation	Effectiveness		
	CANT AND UNAVOIDABLE IMPACTS	Effectiveness		
	ROJECT-LEVEL IMPACTS 1 Aesthetics and Visual Resources			
	1.2.2 Damage to Visual Resources			
AE-1 Substantial adverse change in the visual character and visual quality of the Project site caused by building an urban development in an undeveloped natural setting.	M-AE-1 All final grading plans, landscape plans, and improvement plans for the proposed Project shall be evaluated for Project compliance with the aesthetic design mitigation measures of this EIR, the Resort Village Specific Plan (Development Regulations), the Resort Village Design Plan, and the Resort Village Preserve Edge Plan. Final grading	Significant and unmitigable		
	plans will be created based on the preliminary grading plans and submitted by a certified engineer. M-AE-2 Pursuant to Chapter IV, Implementation, of the Otay Ranch Resort Village Specific Plan, Site Plans ("D" Designator) shall be evaluated for Project compliance with the Resort Village Design Plan, the Resort Village Preserve Edge Plan, and the provisions of the Specific Plan related to colors,			
	materials, and other architectural characteristics of adjacent buildings, building massing, siting of buildings and structures including setbacks from tops of slopes, architectural colors adjacent to open space, height, use of non-reflective/non-glare surfaces, and other aesthetic design measures of this EIR. 2.1.2.3 Scenic Vistas			
AE-2 Permanent alteration to views of	M-AE-1 and M-AE-2 See Above.	Significant and		
scenic resources caused by graded hills, buildings, and landscaping.		unmitigable		
AE-3 Permanent alteration to views of the Project site from Otay Lakes Road—a designated scenic route.	M-AE-1 and M-AE-2 See Above.	Significant and unmitigable		
	2.2 Air Quality			
2.2.2.1 Project Confor AQ-1 VOC, NO _X , CO, PM ₁₀ , and PM _{2.5} emissions during Project construction	mity with the San Diego Regional Air Quality Strateg Construction Emissions M-AQ-1a The applicants shall implement all of the	Significant and unmitigable		
	following measures during construction of the proposed Project:			

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and	Mitigation	Conclusion and Mitigation Effectiveness
		Effectiveness
Description of Impact SIGNIF	 Mitigation CANT AND UNAVOIDABLE IMPACTS Water actively disturbed surfaces at least three times daily; On-site dirt piles or other stockpiled particulate matter shall be covered, wind breaks installed, and water and/or soil stabilizers employed to reduce wind-blown dust emissions. The use of approved nontoxic soil stabilizers shall be incorporated according to manufacturers' specifications to all inactive construction areas; Water sprayers shall be installed on the rock crushing equipment to control particulate emissions during crushing operations; Approved chemical soil stabilizers shall be applied according to the manufacturers' specifications to all inactive construction areas (previously graded areas that remain inactive for 96 hours), including unpaved roads and employee/equipment parking areas; Stabilize the surface soil in areas subject to subsurface blasting immediately before each blast; All construction roads with more than 150 daily trips shall be paved; All construction access roads from Otay Lakes Road onto the Project site shall be paved for a minimum of 100 feet onto the site; Approved chemical soil stabilizers shall be applied according to the manufactures' specifications to all active construction areas, both pre- and post-blasting activity. At a minimum, all off-road, diesel-powered construction equipment greater than 50 horsepower shall meet the Tier 3 emission standards for nonroad diesel engines promulgated by the U.S. Environmental Protection Agency, if such equipment is available in the San Diego region. Construction fleet during the later stages of the Project's construction period (post 2020), if such equipment becomes available in the San Diego region. Paved streets shall be swept frequently (water 	Effectiveness
	sweeper with reclaimed water recommended; wet broom permitted) if soil material has been	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	ICANT AND UNAVOIDABLE IMPACTS	Effectiveness
	carried onto adjacent paved, public	
	thoroughfares from the Project site;	
	Traffic speeds on all unpaved surfaces shall be	
	reduced to 15 mph or less, and unnecessary	
	vehicle traffic shall be reduced by restricting	
	access. Appropriate training to truck and	
	equipment drivers, on-site enforcement, and signage shall be provided;	
	The primary contractor shall be responsible for ensuring that all construction equipment is	
	properly tuned and maintained before and for	
	the duration of on-site operation;	
	Termination of grading and/or surface-level	
	blasting activities shall occur if winds exceed 25	
	mph;	
	 Hydroseeding of graded and surface-level 	
	blasting areas pads shall occur if development	
	will not occur within 90 days;	
	Minimize simultaneous operation of multiple	
	construction equipment units. During	
	construction vehicles in loading and unloading queues shall turn their engines off when not in	
	use to reduce vehicle emissions;	
	All construction equipment shall be outfitted	
	with best available control technology (BACT)	
	devices certified by CARB. A copy of each	
	unit's BACT documentation shall be provided at	
	the time of mobilization of each applicable unit of equipment;	
	 All construction equipment shall be properly 	
	tuned and maintained in accordance with	
	manufacturer's specifications;	
	• 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;	
	The use of electrical construction equipment	
	shall be employed where feasible;	
	• The use of catalytic reduction for gasoline-	
	powered equipment shall be employed where	
	feasible; The use of injection timing retard for discal	
	The use of injection timing retard for diesel-	
	powered equipment shall be employed where	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	CANT AND UNAVOIDABLE IMPACTS	Effectiveness
SIGNIT	feasible; and	
	Construction diesel fuel shall be comprised of at least 25 percent biodiesel:	
	M-AQ-1b The applicants or subsequent designee(s) shall prepare a Dust Control Plan, subject to review and approval by the County of San Diego Department of Planning & Development Services, to be implemented during the Project's construction period. The Dust Control Plan, at a minimum, shall provide the following information:	
	Project name and location;	
	 Contact information for the property owner(s) and construction contractor(s); 	
	Primary project contact responsible for implementation of the plan;	
	Primary agency contact responsible for oversight of the plan;	
	Description of construction activities;	
	• Plot plan;	
	Information on the amount of area to be disturbed;	
	• Phasing schedule for dust generating activities:	
	• List of dust generating activities;	
	Fugitive dust control measures to be implemented, including measures to prevent trackout/carryout;	
	Adaptive management provisions that authorize modifications to dust control measures (e.g., increased watering applications) in response to on-site, real-time conditions;	
	Requirement to post publicly visible signs with the contact information for the primary project and agency contacts in the event of dust control complaints;	
	Requirement to take any necessary corrective action in response to dust control complaints within 24 hours;	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	CANT AND UNAVOIDABLE IMPACTS	Effectiveness
	Recordkeeping requirements to log daily dust control activities; and Certification by primary agency contact of	
	<u>A sample Dust Control Plan template is provided as</u> an attachment to this mitigation measure.	
	The Fugitive Dust Control Plan will also include a requirement to post a publicly visible sign with the telephone number and person to contact regarding dust complaints. This person shall respond and take corrective action within 24 hours.	
	M-AQ-1c Prior to the issuance of grading permits, the applicants or subsequent designee(s) shall develop a construction truck traffic plan for implementation during the Project's construction period. The plan shall identify the preferred truck	
	routing from freeways and/or major roadways, as applicable, to the Project site; those routes shall avoid areas with substantial numbers of sensitive receptors, such as residential developments and/or schools, while minimizing the travel distance. The	
	plan shall be submitted to the County of San Diego Department of Planning & Development Services for review and approval.	
	M-AQ-1d Prior to the issuance of grading and building permits, the applicants or subsequent designee(s) shall submit verification to the County of San Diego Department of Planning & Development Services that a ridesharing program for the construction crew has been encouraged by the	
	contractor(s). Evidence shall include copies of rideshare materials provided to employees and any incentives offered. M-AQ-1e The Project's architectural coatings shall	
	comply with Rule 1113 of the South Coast Air Quality Management District, as amended in 2013.	
sAQ-2 Operational emissions of VOC, CO and PM ₁₀	Management District, as amended in 2013. M-AQ-2a Project permittees shall implement the following mitigation measures to reduce the air pollutant emissions associated mobile sources and on-site gas combustion (CAPCOA 2010):	Significant and unmitigable
	Plant low-maintenance, drought-resistant plant species that reduce gas-powered landscape	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	CANT AND UNAVOIDABLE IMPACTS	Effectiveness
SIGNIFIC	maintenance equipment usage and water	
	consumption.	
	Equip residential structures with electric outlets in the front and rear of the structure to facilitate use of electrical lawn and garden equipment.	
	All single-family residences shall be constructed with connections for solar water heaters and solar and/or wind renewable energy systems. Use regulated low-VOC coatings for all architectural coating activities.	
	Incorporate pedestrian trails, paths and sidewalks, and bicycle trails to encourage reduction in vehicle usage and trips.	
	M-AQ-2b The Project's HOA shall require that all open space areas under its control be landscaped and maintained with electrical equipment, to the extent feasible.	
	2.9 Transportation and Traffic	
	9.3.2 Existing Plus Project Phase I	T
TR-1 Otay Lakes Road, between Wueste	M-TR-1 Prior to recordation of the first final map,	Significant and
Rd and the City of Chula Vista/County	the Project applicant shall enter into an agreement	unmitigable
boundary (LOS F, City of CV)	with the City of Chula Vista to secure and construct,	
Proposed Phase I project trips would	or cause to be constructed, the widening of Otay	
comprise 73.8% (more than 5%) of the	Lakes Road between Wueste Road and the	
total segment volume, and would also	City/County Boundary from two lanes to four lanes	
add 8,230 ADT (more than 800 ADT) to	(4 Lane Major with Raised Median), such that the	
this roadway segment.	improvements are operational prior to issuance construction of the 728th EDU building permit. A	
	preliminary design of this mitigation measure is	
	shown in Figure 2.9-32.	
	.3.3 Existing Plus Project Buildout	
	M-TR-4 Prior to recordation of the first final map, the Project applicant shall enter into an agreement with the City of Chula Vista to secure and construct, or eause to be constructed, a traffic signal at the intersection of Otay Lakes Road and Wueste Road such that the improvements are operational prior to the construction of the 1,500th EDU building permit.	Significant and unmitigable
volumes. TR-5 Otay Lakes Road, between Lake Crest Dr and Wueste Rd (LOS F, City of CV) Proposed buildout project trips would comprise 86.0% (more than 5%)	M-TR-5 Prior to recordation of the first final map, the Project applicant shall enter into an agreement with the City of Chula Vista to secure and construct, or cause to be constructed, the widening of Otay	Significant and unmitigable
of the total segment volume, and would also add 16,310 ADT (more than 800	Lakes Road between Lake Crest Drive and Wueste Road from two lanes to four lanes (4 Lane Major	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
· · · · · · · · · · · · · · · · · · ·	CANT AND UNAVOIDABLE IMPACTS	Litetiveness
ADT) to this roadway segment. Additionally, the intersection of Otay Lakes Road / Wueste Road is projected to operate at unacceptable LOS E during	with Raised Median) such that the improvements are operational prior to issuance construction of the 910 th EDU building permit.	
the PM peak hour. TR-6 Otay Lakes Road, between Wueste Rd and the City of Chula Vista/County boundary (LOS F, City of CV) Proposed project trips would comprise 87.0% (more than 5%) of the total segment volume, and would also add 19,540 ADT (more than 800 ADT) to this roadway segment. Additionally, the intersection of Otay Lakes Road / Wueste Road is projected to operate at proceeds to the PM roads.	M-TR-6 Prior to recordation of the first final map; the Project applicant shall enter into an agreement with the City of Chula Vista to secure and construct, or cause to be constructed, the widening of Otay Lakes Road between Wueste Road and the City/County Boundary from two lanes to four lanes (4-Lane Major with Raised Median) such that the improvements are operational prior to issuanceconstruction of the 728th EDU building permit.	Significant and unmitigable
unacceptable LOS E during the PM peak hour. TR-7 Otay Lakes Road / Wueste Road (City of CV) This intersection (#20) would operate at unacceptable LOS F during both the AM and PM peak hours with the addition of the project traffic because the Project traffic would comprise more than 5 percent of the total	M-TR-7 Prior to recordation of the first final map, the Project applicant shall enter into an agreement with the City of Chula Vista to secure and construct, or cause to be constructed, a traffic signal at the intersection of Otay Lakes Road and Wueste Road such that the improvements are operational prior to construction of the 1,5001.234 th EDUbuilding	Significant and unmitigable
entering volumes. TR-8 Otay Lakes Road / SR-94 (County) This intersection (#21) would operate at unacceptable LOS E and F during the AM and PM peak hours, respectively.	permit. M-TR-8 Prior to recordation of the first final map, the Project applicant shall enter into an agreement with Caltrans to install, cause to be installed, or make a fair share payment towards an approved plan or program for the signalization of the intersection of Otay Lakes Road and SR-94 such that the traffic signal is operational consistent with Caltrans requirements.	Significant and unmitigable
TR-9 Otay Lakes Road, between Lake Crest Dr and Wueste Rd (LOS F, City of CV)—Proposed buildout project trips would comprise 74.7% (more than 5%) of the total segment volume, and would add 15,810 ADT (more than 800 ADT). Additionally, the intersection Otay Lake Road / Wueste Road is projected to operate at unacceptable LOS F during the peak hours.	M-TR-9 Prior to recordation of the first final map, the Project applicant shall enter into an agreement with the City of Chula Vista to secure and construct, or cause to be constructed, the widening of Otay Lakes Road between Lake Crest Drive and Wueste Road and the City/County Boundary from two lanes to four lanes (4 Lane Major with Raised Median), such that the improvements are operational prior to issuance of the 910th construction of the 384th EDUbuilding permit.	Significant and unmitigable
TR-10 Otay Lakes Road, between Wueste Road and the City of Chula Vista/County boundary (LOS F, City of CV) Proposed buildout project trips would comprise 76.5% (more than 5%)	M-TR-10 Prior to recordation of the first final map, the Project applicant shall enter into an agreement with the City of Chula Vista to secure and construct, or cause to be constructed, the widening of Otay Lakes Road between Lake Crest Drive and Wueste	Significant and unmitigable

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and	Mitigation	Conclusion and Mitigation
Description of Impact	Mitigation CANTE AND LINEAUGIDA DIE IMPAGES	Effectiveness
	CANT AND UNAVOIDABLE IMPACTS	1
of the total segment volume, and would	Road and the City/County Boundary from two lanes	
add 19,540 ADT (more than 800 ADT).	to four lanes (4-Lane Major with Raised Median),	
Additionally, the intersection of Otay	such that the improvements are operational prior to	
Lake Road / Wueste Road is projected to	issuance of the 910 th construction of the 384 th	
operate at unacceptable LOS F during the peak hours.	EDUbuilding permit.	
•	IULATIVE-LEVEL IMPACTS	
2.	1 Aesthetics and Visual Resources	
17.10	2.1.2.3 Scenic Vistas	I a
AE-4 Contribution to aesthetic resources impacts within Otay Ranch and southeastern San Diego County, including impacts to views from scenic vistas and scenic highways and impacts to the visual character of the area.	M-AE-1 and M-AE-2 See Above.	Significant and unmitigable
	2.2 Air Quality mity with the San Diego Regional Air Quality Strates	
AQ-1 VOC, NO _X , CO, PM ₁₀ , and PM _{2.5} emissions during Project construction	Construction Emissions	Significant and unmitigable
	following measures during construction of the proposed Project: Water actively disturbed surfaces at least three times daily; On site dirt piles or other stockpiled particulate matter shall be covered, wind breaks installed, and water and/or soil stabilizers employed to	
	reduce wind blown dust emissions. The use of approved nontoxic soil stabilizers shall be incorporated according to manufacturers' specifications to all inactive construction areas; Water sprayers shall be installed on the rock crushing equipment to control particulate emissions during crushing operations;	
	Approved chemical soil stabilizers shall be applied according to the manufacturers' specifications to all inactive construction areas (previously graded areas that remain inactive for 96 hours), including unpaved roads and employee/equipment parking areas; Paved streets shall be swept frequently (water sweeper with reclaimed water recommended; wet broom permitted) if soil material has been carried onto adjacent paved, public thoroughfares from the Project site;	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and		Conclusion and Mitigation
		Effectiveness
SIGNIFI	CANT AND UNAVOIDABLE IMPACTS	
Description of Impact	 Mitigation CANT AND UNAVOIDABLE IMPACTS Traffic speeds on all unpaved surfaces shall be reduced to 15 mph or less, and unnecessary vehicle traffic shall be reduced by restricting access. Appropriate training to truck and equipment drivers, on site enforcement, and signage shall be provided; The primary contractor shall be responsible for ensuring that all construction equipment is properly tuned and maintained before and for the duration of on site operation; Termination of grading shall occur if winds exceed 25 mph; Hydroseeding of graded pads shall occur if development will not occur within 90 days; Minimize simultaneous operation of multiple construction equipment units. During construction vehicles in loading and unloading queues shall turn their engines off when not in use to reduce vehicle emissions; All construction equipment shall be outfitted with best available control technology (BACT) devices certified by CARB. A copy of each unit's RACT documentation shall be provided at 	Mitigation Effectiveness
	unit's BACT documentation shall be provided at the time of mobilization of each applicable unit of equipment; All construction equipment shall be properly tuned and maintained in accordance with manufacturer's specifications;	
	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; The use of electrical construction equipment	
	shall be employed where feasible; The use of catalytic reduction for gasoline-powered equipment shall be employed where feasible; The use of injection timing retard for diesel-powered equipment shall be employed where feasible; and	
	 Construction diesel fuel shall be comprised of at least 25 percent biodiesel; 	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	CANT AND UNAVOIDABLE IMPACTS	Litetiveness
AQ-2 Operational emissions of VOC, CO and PM ₁₀	M-AQ-2 Project permittees shall implement the following mitigation measures to reduce the air pollutant emissions associated mobile sources and on site gas combustion (CAPCOA 2010):	Significant and unmitigable
	Plant low-maintenance, drought resistant plant species that reduce gas powered landscape maintenance equipment usage and water consumption.	
	Equip residential structures with electric outlets in the front and rear of the structure to facilitate use of electrical lawn and garden equipment.	
	All single family residences shall be constructed with connections for solar water heaters and solar and/or wind renewable energy systems.	
	Use regulated low VOC coatings for all architectural coating activities.	
	 Incorporate pedestrian trails, paths and sidewalks, and bicycle trails to encourage reduction in vehicle usage and trips. 	
AQ-3 VOC, NOx, CO, PM ₁₀ , and PM _{2.5} emissions during Project construction	M-AQ-1 See Above.	Significant and unmitigable
AQ-4 Cumulative operational emissions of PM ₁₀ , CO, and VOC	M-AQ-2 See Above.	Significant and unmitigable
	2.8 Solid Waste	
	2.8.3 Cumulative Impact Analysis	
SW-1 Contribute to regional need for increased landfill capacity which may require construction of new landfills in the County.	No known mitigation measures would avoid significant impacts	Significant and unmitigable
	2.9 Transportation and Traffic	
	2.9.3.4 Cumulative Year (2025)	
TR-7 Otay Lakes Road / Wueste Road (City of CV) This intersection (#20) would operate at unacceptable LOS F during both the AM and PM peak hours with the addition of the project traffic because the Project traffic would comprise more than 5 percent of the total entering volumes.	M-TR-7 Prior to recordation of the first final map, the Project applicant shall enter into an agreement with the City of Chula Vista to secure and construct, or cause to be constructed, a traffic signal at the intersection of Otay Lakes Road and Wueste Road such that the improvements are operational prior to construction of the 1,234th EDU.	Significant and unmitigable
TR-8 Otay Lakes Road / SR-94 (County) - This intersection (#21) would operate at unacceptable LOS E and F during the AM and PM peak hours, respectively.	M-TR-8 Prior to recordation of the first final map, the Project applicant shall enter into an agreement with Caltrans to install, cause to be installed, or make a fair-share payment towards an approved plan or program for the signalization of the intersection of Otay Lakes Road and SR-94 such that the traffic	Significant and unmitigable

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	CANT AND UNAVOIDABLE IMPACTS	
SIGINIT	signal is operational consistent with Caltrans requirements.	
TR-9 Otay Lakes Road, between Lake Crest Dr and Wueste Rd (LOS F, City of CV)—Proposed buildout project trips would comprise 74.7% (more than 5%) of the total segment volume, and would add 15,810 ADT (more than 800 ADT). Additionally, the intersection Otay Lake Road / Wueste Road is projected to operate at unacceptable LOS F during the peak hours.	M-TR-9 Prior to recordation of the first final map, the Project applicant shall enter into an agreement with the City of Chula Vista to secure and construct, or cause to be constructed, the widening of Otay Lakes Road between Lake Crest Drive and Wueste Road and the City/County Boundary from two lanes to four lanes (4-Lane Major with Raised Median), such that the improvements are operational prior to construction of the 384 th EDU.	Significant and unmitigable
TR-10 Otay Lakes Road, between Wueste Road and the City of Chula Vista/County boundary (LOS F, City of CV) Proposed buildout project trips would comprise 76.5% (more than 5%) of the total segment volume, and would add 19,540 ADT (more than 800 ADT). Additionally, the intersection of Otay Lake Road / Wueste Road is projected to operate at unacceptable LOS F during the peak hours.	M-TR-10 Prior to recordation of the first final map, the Project applicant shall enter into an agreement with the City of Chula Vista to secure and construct, or cause to be constructed, the widening of Otay Lakes Road between Lake Crest Drive and Wueste Road and the City/County Boundary from two lanes to four lanes (4 Lane Major with Raised Median), such that the improvements are operational prior to construction of the 384 th EDU.	Significant and unmitigable
TR-11 Otay Lakes Rd, between City of Chula Vista/County boundary and Project Driveway #1 (LOS F, County) Proposed buildout project would add more than 200 ADT to this failing 2 lane roadway segment.	M-TR-11 Otay Lakes Road, between City/County Boundary and Project Driveway #1 (County)—this roadway segment is included in the list of facilities included in the County's TIF Program and is classified as a Major Road (4.1B) in the County of San Diego General Plan Mobility Element. The project applicant proposes to change this roadway segment classification to a Boulevard (4.2A). Accordingly, the project applicant would be responsible for participating in an update to the TIF Program to reflect the change in classification. Subsequently, the project applicant would be responsible for complying with the updated TIF Program to mitigate for cumulative impacts.	Less than significant
TR-12 Otay Lakes Rd, between Project Driveway #1 and Driveway #2 (LOS F, County) Proposed buildout project would add more than 200 ADT to this failing 2 lane roadway segment.	M-TR-12 Otay Lakes Road, between Project Driveway #1 and Project Driveway #2 (County) this roadway segment is included in the list of facilities included in the County's TIF Program and is classified as a Major Road (4.1B) in the County of San Diego General Plan Mobility Element. The project applicant proposes to change this roadway segment classification to a Boulevard (4.2A). Accordingly, the project applicant would be responsible for participating in an update to the TIF Program to reflect the change in classification.	Less than significant

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
SIGNIFIC	CANT AND UNAVOIDABLE IMPACTS	
	Subsequently, the project applicant would be responsible for complying with the updated TIF Program to mitigate for cumulative impacts.	

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	MITIGATED TO A LEVEL OF LESS THAN SIGNII	
	PROJECT-LEVEL IMPACTS	
	2.3 Biological Resources	
	2.3.2.1 Special Status Species	T
BI-1a-1k Potential permanent and temporary impacts to sensitive vegetation communities on-site.	M-BI-1a Conveyance Prior to the approval of the first Final Map for the project, the Project Applicant shall coordinate with the County of San Diego to establish and annex the project area into a County-administered Community Facilities District to pay for the on-going management and maintenance of the Otay Ranch Preserve. Prior to the recordation of the first Final Map within each Tentative Map, the project applicants shall convey land within the Otay Ranch Preserve to the Otay Ranch Preserve Owner/Manager or its designee at a 1.188 acre for each "Developable Acre" impacted at Final Map as define by the Otay Ranch RMP. The total required conveyance for this project is 887.7 acres.	Less than significant
	M-BI-1b Biological Monitoring Prior to issuance of land development permits, including clearing, grubbing, grading, and/or construction permits for any areas adjacent to the preserve and the off-site facilities located within the preserve, the Project Applicant shall provide written confirmation that a County-approved biological monitor has been retained and shall be on site during clearing, grubbing, and/or grading activities. The biological monitor shall attend all pre-construction meetings and be present during the removal of any vegetation to ensure that the approved limits of disturbance are not exceeded and provide periodic monitoring of the impact area including, but not limited to, trenches, stockpiles, storage areas and protective fencing. The biological monitor shall also be responsible for implementing the monitoring as required and specified in the restoration plans. The biological monitor shall be authorized to halt all associated project activities that may be in violation of the County's MSCP Subarea Plan and/or permits issued by any other agencies having jurisdictional authority over the project. Before construction activities occur in areas adjacent to preserve areas containing sensitive biological resources, all workers shall be educated by a County-approved biologist to recognize and avoid those areas that have been marked as sensitive biological resources.	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and	Mitigation	Conclusion and Mitigation
Description of Impact	Mitigation	Effectiveness
SIGNIFICANT IMPACTS N	M-BI-1c Temporary Fencing Prior to issuance of land development permits, including clearing, grubbing, grading and/or construction permits, the Project Applicant shall install prominently colored, fencing and signage wherever the limits of grading are adjacent to sensitive vegetation communities or other biological resources, as identified by the qualified monitoring biologist. Fencing shall remain in place during all construction activities. All temporary fencing shall be shown on grading plans for areas adjacent to the preserve and for all off-site facilities constructed within the preserve. Prior to release of grading and/or improvement bonds, a qualified biologist shall provide evidence to the satisfaction of the Director of Planning ∧ Development Services (orf their designee) and the Director of Parks and Recreation, that work was conducted as authorized under the approved land	FICANT
	development permit and associated plans. M-BI-1d Upland Restoration. aAreas may incorporate salvaged materials, such as seed collection, and translocation of plant materials as determined to be appropriate. The project biologist shall review the plant materials prior to grading and will determine if salvage is warranted. If salvage is not appropriate due to site conditions, plant conditions, or reproductive stage of the plants, a letter indicating that will be prepared and submitted to the Director of the Department of Planning and Development Services and the Director of Parks and Recreation. Prior to grading the project, a Conceptual Upland Restoration Plan (Appendix H of the Otay Ranch Resort Village Biological Resources Technical Report in Appendix C-3 to this EIR) will be submitted to and receive approval from the Director of Planning and Development Services (of their designee) and the Director of Parks and Recreation.	
	The Conceptual Upland Restoration Plan shall include, but not be limited to, the following to ensure the establishment of the restoration objectives: a 24-by 36-inch map showing the restoration areas, site preparation information, type of planting materials (species ratios, source, size of container, etc.), planting program, 80% success criteria, 5-year monitoring plan, and detailed cost estimate. The cost estimate shall include planting, plant materials,	

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
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	irrigation, maintenance, monitoring, and report preparation. The report shall be prepared by a County approved biologist and a state of California licensed landscape architect. The proposed upland restoration area as shown within the Conceptual	
	Upland Restoration Plan must be placed within an open space easement dedicated to the County prior to or immediately following the approval of the Conceptual Upland Restoration Plan. The habitat created pursuant to the Conceptual Upland Restoration Plan must be placed within an open	
	space easement dedicated to the County prior to or immediately following the approval of the Conceptual Upland Restoration Plan.	
	M-BI-1e Limited Building Zone (LBZ) Easement. In order to protect sensitive biological resources in the adjacent preserve, a Limited Building zone (LBZ) easement will be granted to the County, as shown on the Tentative Map. The purpose of this easement is to limit the need to clear or modify vegetation for fire protection purposes within the preserve, restrict unauthorized access, prohibit landscaping with exotic pest plants that may invade the preserve, and prohibit artificial lighting and focal use areas that would alter wildlife behavior in the preserve. This easement requires the landowner to maintain permanent fencing and signage. The easement precludes 1) placement, installation, or construction of habitable structures, including garages or accessory structures designed or intended for occupancy by humans or animals; 2) landscaping with exotic pest plants; 3) artificial lighting except low-pressure sodium fixtures shielded and directed away from the preserve; and 4) focal use areas including arenas, pools, and patios.	
	M-BI-1f Fencing and Signage. In order to protect the preserve from entry upon completion of construction, an open space fence or wall will be installed along all open space edges where open space is adjacent to residential uses, along internal streets, and as indicated in the Otay Ranch Resort Village Preserve Edge Plan and Proposed Fencing, Preserve signage, and Fuel Modification Zones (see map pocket). The barrier must be a minimum construction of vertical metal fencing, but may be other suitable construction material, as approved by	

Impact No. and		Conclusion and Mitigation
Description of Impact	Mitigation	Effectiveness
	MITIGATED TO A LEVEL OF LESS THAN SIGNII	
SIGNITERINI IMI NE ISI	and the Director of Parks and Recreation. The	ICAN I
	barrier must be a minimum construction of vertical	
	metal fencing, but may be other suitable	
	construction material, as approved by Department	
	of Planning and Development Services and the	
	Director of Parks and Recreation. TIn order to	
	protect the preserve from entry, informational signs	
	will be installed, where appropriate, along all open	
	space edges where open space is adjacent to	
	residential uses, along internal streets, and as	
	indicated in the Otay Ranch Resort Village	
	Preserve Edge Plan. The signs must be corrosion resistant, a minimum of 6 inches by 9 inches in size,	
	on posts not less than three (3) feet in height from	
	the ground surface, and state "Sensitive	
	Environmental Resources Protected by Easement.	
	Entry without express written permission from the	
	County of San Diego is prohibited."	
	M-BI-1g Habitat Manager for the Offsite 10.2-	
	acre Parcel. In order to provide for the long-term	
	management of the proposed 10.2-acre parcel that will	
	be added to the MSCP Preserve, a habitat manager shall	
	be designated either privately selected, a non-profit	
	organization, or a government agency. If a private or	
	non-profit organization is selected as the habitat	
	manager, a Resource Management Plan (RMP) will be	
	prepared and implemented. The final RMP will be completed to the satisfaction of the Director of	
	Department of Planning and Development Services, as	
	follows: 1) the plan will be prepared and approved	
	pursuant to the most current version of the County of	
	San Diego Biological Report Format and Content	
	Requirements; 2) the habitat land to be managed will be	
	owned by a land conservancy or equivalent; 3) open	
	space easements will be dedicated in perpetuity; 4) a	
	resource manager will be selected and approved, with	
	evidence provided demonstrating acceptance of this	
	responsibility; 5) the RMP funding mechanism will be	
	identified and adequate to fund annual costs for implementation; and 6) a contract between the applicant	
	and County will be executed for the implementation of	
	the RMP, and funding will be established with the	
	County as the third party beneficiary. In lieu of	
	providing a private habitat manager as noted above,	
	the applicant may contract with a federal, state, or	
	local government agency with the primary mission	
	of resource management to take fee title and manage	
	the 10.2-acre parcel of land. Evidence of satisfaction	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and	Mitigation	Conclusion and Mitigation Effectiveness
Description of Impact SIGNIFICANT IMPACTS M	Mitigation IITIGATED TO A LEVEL OF LESS THAN SIGNIF	
	must include a copy of the contract with the agency, and a written statement from the agency that (1) the land contains the specified acreage and the specified habitat, or like functioning habitat; and (2) the land will be managed by the agency for conservation of natural resources in perpetuity.	
BI-2 Potential permanent impacts to sensitive vegetation communities on City of San Diego Cornerstone Lands.	M-BI-2 Prior to widening Otay Lakes Road, the project applicants shall mitigate for the replace-11.09 acres of impact to Cornerstone Lands and complete and MHPA Boundary Adjustment to the satisfaction of the City of San Diego Development Services Director (or their designee). Replacement of MHPA lands within Cornerstone Lands is proposed to be at a 14:1 ratio for lands replaced inside the MSCP Preserve. For replacement lands that are located outside of the MSCP Preserve, the mitigation is at a 14:1 ratio. Mitigation for impacts to the various vegetation communities shall be based on the tier of the impacted lands in accordance with the mitigation ratios provided by the MSCP. The mitigation and MHPA Boundary Adjustment may be implemented within the Otay Ranch Preserve on property surrounding the existing Cornerstone Lands, north of Otay Lakes Road, or may be off-site at a location determined to be acceptable by the City of San Diego.	Less than significant
BI-3 Potential permanent impacts to sensitive vegetation communities on City of Chula Vista lands.	M-BI-3 Prior to issuance of any land development permits, including clearing or grubbing and grading and/or construction permits, the project will be required to obtain a HILT Permit pursuant to Section 17.35 of the Chula Vista Municipal Code for impacts to Chula Vista MSCP Tier I, II, and II vegetation communities as shown in Table 2.3-131 and in accordance with Table 5-3 of the Chula Vista MSCP Subarea Plan. Mitigation for off-site impacts outside of Otay Ranch will be in accordance with the Chula Vista MSCP Subarea Plan and the Chula Vista Habitat Loss and Incidental Take (HLIT) Ordinance. Prior to issuance of any land development permits, the Project applicants shall mitigate for direct impacts pursuant to Section 5.2.2 of the City of Chula Vista MSCP Subarea Plan. In compliance with the Subarea Plan, the applicant shall secure mitigation credits within a City- and wildlife agency-approved Conservation Bank or other approved	Less than significant

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	MITIGATED TO A LEVEL OF LESS THAN SIGNI	
	location offering mitigation credits consistent with the ratios specified in Table 2.3-131 herein.	
	The Project applicants shall be required to provide verification of purchase to the City of Chula Vista prior to issuance of any land development permits.	
	In the event that Project applicants are unable to secure mitigation through an established mitigation bank approved by the City of Chula Vista and the wildlife agencies, the Project applicants shall secure the required mitigation through the conservation of an area containing in-kind habitat within the City of Chula Vista's MSCP Subarea Plan or MSCP Planning Area in accordance with the mitigation ratios contained in Table 5-3 of the City of Chula Vista's MSCP Subarea Plan and subject to wildlife agency concurrence. The applicants shall be required to provide verification of purchase to the City prior	
	to issuance of any land development permits. In the event that a Project Applicant is unable to secure mitigation through an established mitigation bank approved by the City and wildlife agencies, the Project Applicant shall secure the required mitigation through the conservation of an area containing in kind habitat within the City's MSCP Subarea Plan or MSCP Planning Area in accordance with the mitigation ratios contained in Table 5 3 of the City of Chula Vista MSCP Subarea Plan and subject to wildlife agency concurrence.	
	Prior to issuance of any land development permit for the widening or Otay Lakes Road, and to the satisfaction and oversight of the City's Development Services Director (or their designee), the Applicant shall secure the parcel(s) that will be permanently preserved for in-kind habitat impact mitigation, if a mitigation bank purchase is unavailable, prepare a long-term management and monitoring plan for the mitigation area, secure an appropriate management entity to ensure that long-term biological resource management and monitoring of the mitigation area is implemented in perpetuity, and establish a long-term funding mechanism for the management and monitoring of the mitigation area in perpetuity.	
	The long-term management and monitoring plan shall provide management measures to be implemented to sustain the viability of the preserved habitat and identify timing for implementing the	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
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	measures prescribed in the management and monitoring plan. The mitigation parcel shall be restricted from future development and permanently preserved through the recordation of a conservation easement or other mechanism approved by the wildlife agencies as being sufficient to insure that the lands are protected in perpetuity. The conservation easement or other mechanism approved by the wildlife agencies shall be recorded prior to issuance of any land development permits.	
BI-4 Potential permanent and temporary impacts to jurisdictional waters and wetlands on-site.	M-BI-4 Prior to impacts occurring to waters and wetlands under the jurisdiction of ACOE, CDFW and RWQCB, the Project applicants Applicant shall obtain the following permits: ACOE 404 permit, RWQCB 401 Water Quality Certification, and a CDFW Code 1600 Streambed Alteration Agreement. Impacts shall be mitigated at a 1:1 ratio by creation or purchase of credits for the creation of jurisdictional habitat of similar functions and values. A suitable mitigation site shall be selected and approved by the resource agencies during the permitting process. The ratio of wetland mitigation should be 3:1 overall. A total of 2.15 acres of wetlands will be created (1:1 creation to impact ratio). An additional 4.30 acres of wetlands will be enhanced (2:1 enhancement to impact ratio). Creation/enhancement will occur within the Dulzura Creek/Otay River watershed in accordance with a Conceptual Wetlands Mitigation and Monitoring Plan (Appendix I of the Otay Ranch Resort Village Biological Resources Technical Report in Appendix C-3 to this EIR) approved by the County and appropriate resource agencies. The wetland creation should include at least a 1:1 ratio of each of the wetland vegetation communities impacted. The remainder of the creation/enhancement obligation may be fulfilled with any wetlands type. Prior to issuance of land development permits, including clearing, grubbing, and grading permits that impact jurisdictional waters, the Project applicants Project Applicant shall prepare a Wetlands Mitigation and Monitoring Plan to the satisfaction of the Director of Planning and Development Services (of their designee), the Director of Parks and Recreation, ACOE, RWQCB, and CDFW. The Conceptual Wetlands Mitigation and Monitoring Plan shall at a minimum prescribe	Less than significant

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and	Mitigation	Conclusion and Mitigation
Description of Impact	Mitigation MITIGATED TO A LEVEL OF LESS THAN SIGNII	Effectiveness
	site preparation, planting, irrigation, and a 5-year maintenance and monitoring program with qualitative and quantitative evaluation of the revegetation effort and specific criteria to determine successful revegetation. The temporary impacts to ephemeral and intermittent waters will be mitigated by restoring to original condition immediately upon completion of the project but will be subject to all of the success criteria and monitoring as the permanent impacted wetlands.	
BI-5 Potential permanent impacts to jurisdictional vernal pools on-site.	M-BI-7 Option No. 1: This option consists of mitigation in the form of restoration of vernal pools within the Resort Village Project site. This option shall involve restoration and reconfiguration of the K8 vernal pool group. These vernal pools are proposed to be preserved, and a 100-foot minimum buffer is provided for protection of the pools and their watershed. Mitigation shall involve reconfiguration and reconstruction of the mima mounds and basins, removal of weedy vegetation, revegetation of the mounds with upland sage scrub species, and inoculation of the pools with vernal pool species. A Conceptual Vernal Pool Mitigation Plan shall be prepared that outlines the location and activities of the restoration (Appendix J of the Otay Ranch Resort Village Biological Resources Technical Report in Appendix C-3 to this EIR). The plan will be submitted to and be to the satisfaction of, both the Directors of the Department of Planning & Development Services and of Parks and Recreation and USFWS. The plan will include performance measures that may include but are not limited to target functions and values that are guidelines to assess the success of the restored vernal pool and mima mound habitat. The mitigation program intends to restore habitat with appropriate topography and vernal pool hydrology to support the intended vernal pool target species including San Diego fairy shrimp. A ratio of at least 1:1 restoration shall include the establishment of new vernal pool basins within the K8 vernal pool group. The balance of the mitigation ratio shall include enhancement of the existing pools. There is a total of 0.26 acre available for enhancement within the existing pools. The additional restoration mitigation requirement (a total of 0.112 acre) shall be directed toward establishing new basins within the K8 vernal pool group to the greatest extent feasible. An additional	Less than significant

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	HITIGATED TO A LEVEL OF LESS THAN SIGNII	FICANT
	area of potential vernal pool restoration is located within the K9 mesa, if needed. This area is also composed of suitable soils for vernal pools. These soils are present on the K6 and K8 mesas. This additional area is composed of nonnative grass species, is of relatively flat topography, and exhibits some mounding characteristics similar to mima mounds.	
	Based on the inundation records, fairy shrimp surveys, and floral inventory, the following potential vernal pools meet the previously applied ACOE jurisdictional criteria:	
	• K6 – Vernal Pools 1, 3, 5, 6, 7, 8, 9, 10, 12, and 13 (0.11 acre – total basin area)	
	• K8 – Vernal Pools 1, 2, 4, 5, 6, 7, 8, 10, 11, 13, 14, 15, 16, A1, and A4 (0.26 acre – total basin area)	
	Assuming all of K6 is impacted and the mitigation requirement is a combination of 2:1 and 5:1, as outlined above, a total mitigation of 0.239 acre shall be required. This is typically satisfied by providing at least 1:1 as restoration and the balance as enhancement. Enhancement within the K8 pools will likely be restricted by the resource agencies to those pools not containing fairy shrimp. Table 2.3-142 summarizes the existing conditions of the pools within the K8 mesa.	
	Option No. 2: This option consists of mitigation in the form of purchase of vernal pool mitigation bank credits for a total of 0.239 acre at a combined 2:1 and 5:1 mitigation ratio.	
BI-6 Potential indirect impacts to jurisdictional waters and vernal pools.	M-BI-13 Prior to issuance of grading permits for development areas adjacent to the Preserve, the Project applicants shall develop a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP shall be developed, approved, and implemented during construction to control storm water runoff such that erosion, sedimentation, pollution, and other adverse effects are minimized. The following performance measures contained in the Project's Preserve Edge Plan (Appendix C-23) shall be implemented to avoid the release of toxic substances associated with urban runoff:	Less than significant

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	IITIGATED TO A LEVEL OF LESS THAN SIGNIF	
	Sediment shall be retained on-site by a system of sediment basins, traps, or other appropriate measures.	
	Where deemed necessary, storm drains shall be equipped with silt and oil traps to remove oils, debris, and other pollutants. Storm drain inlets shall be labeled "No Dumping—Drains to Ocean." Storm drains shall be regularly maintained to ensure their effectiveness.	
	Parking lots shall be designed to allow storm water runoff to be directed to vegetative filter strips and/or oil-water separators to control sediment, oil, and other contaminants.	
	Permanent energy dissipaters shall be included for drainage outlets.	
	The BMPs contained in the SWPPP shall include silt fences, fiber rolls, gravel bags, and soil stabilization measures such as erosion control mats and hydro-seeding.	
BI-7 Potential permanent impacts to jurisdictional waters and wetlands on Cornerstone Lands.	M-BI-5 Prior to impacts occurring to waters and wetlands within the City of San Diego Cornerstone Lands, under the jurisdiction of ACOE, CDFW, and RWQCB, the Project applicants shall obtain the following permits: ACOE 404 permit, RWQCB 401 Water Quality Certification, and a CDFW Code 1600 Streambed Alteration Agreement. Impacts shall be mitigated at a 1:1 ratio by creation or purchase of credits for the creation of jurisdictional habitat of similar functions and values. A suitable mitigation site shall be selected and approved by the resource agencies during the permitting process. The ratio of wetland mitigation shall be 3:1 overall. A total of 2.15 acres of wetlands shall be created (1:1 creation-to-impact ratio). An additional 4.30 acres of wetlands shall be enhanced (2:1 enhancement to impact ratio). Creation/enhancement shall occur within the Dulzura Creek/Otay River watershed in accordance with a Conceptual Wetlands Mitigation and Monitoring Plan (Appendix I of the Otay Ranch Resort Village Biological Resources Technical Report in Appendix C-3 to this EIR) that is approved by the County of San Diego and the appropriate resource agencies. The wetland creation shall include at least a 1:1 ratio of each of the wetland vegetation communities impacted. The	Less than significant

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	MITIGATED TO A LEVEL OF LESS THAN SIGNII	
	remainder of the creation/enhancement obligation may be fulfilled with any wetlands type.	
	Prior to issuance of land development permits, including clearing, grubbing, and grading permits that impact jurisdictional waters, the Project applicants shall prepare a Wetlands Mitigation and Monitoring Plan to the satisfaction of the Director of Planning and Development Services (or his/her designee), ACOE, and CDFW. The Conceptual Wetlands Mitigation and Monitoring Plan shall, at a minimum, prescribe site preparation, planting, irrigation, and a 5-year maintenance and monitoring program with qualitative and quantitative evaluation of the revegetation effort and specific criteria to determine successful revegetation. The temporary impacts to ephemeral and intermittent waters shall be mitigated by restoring them to original conditions immediately upon completion of the Project, and shall be subject to all of the success criteria and monitoring as the permanent impacted wetlands.	
BI-8 Potential permanent impacts to jurisdictional waters and wetlands on County of San Diego lands.	M-BI-6 Prior to impacts occurring to waters within the County of San Diego under the jurisdiction of ACOE, CDFW, and RWQCB, the Project applicants shall obtain the following permits: ACOE 404 permit, RWQCB 401 Water Quality Certification, and a CDFW Code 1600 Streambed Alteration Agreement. Impacts shall be mitigated at a 1:1 ratio by creation or purchase of credits for the creation of jurisdictional habitat of similar functions and values. A suitable mitigation site shall be selected and approved by the resource agencies during the permitting process. The ratio of wetland mitigation shall be 3:1 overall. A total of 0.01 acre of waters of the U.S. shall be created (1:1 creation-to-impact ratio). An additional 0.02 acre of waters of the U.S. shall be enhanced (2:1 enhancement-to-impact ratio). Creation/enhancement shall occur within the Dulzura Creek/Otay River watershed in accordance with a Conceptual Wetlands Mitigation and Monitoring Plan (Appendix I of the Otay Ranch Resort Village Biological Resources Technical Report in Appendix C-3 to this EIR) that is approved by the County of San Diego and the appropriate resource agencies. The wetland creation shall include at least a 1:1 ratio of each of the wetland vegetation communities impacted. The	Less than significant

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	IITIGATED TO A LEVEL OF LESS THAN SIGNII	
	remainder of the creation/enhancement obligation may be fulfilled with any wetlands type.	
	Prior to issuance of land development permits, including clearing, grubbing, and grading permits that impact jurisdictional waters, the Project applicants shall prepare a Wetlands Mitigation and Monitoring Plan to the satisfaction of the Director of Planning and Development Services (or his/her designee), ACOE, and CDFW. The Conceptual Wetlands Mitigation and Monitoring Plan shall, at a minimum, prescribe site preparation, planting, irrigation, and a 5-year maintenance and monitoring program with qualitative and quantitative evaluation of the revegetation effort and specific criteria to determine successful revegetation. The temporary impacts to ephemeral and intermittent waters shall be mitigated by restoring them to their original conditions immediately upon completion of the Project, and shall be subject to all of the success criteria and monitoring as the permanently impacted wetlands.	
BI-9 Potential indirect impacts to vegetation communities.	M-BI-14 During construction, material stockpiles shall be covered when not in use. This will prevent fly-off that could damage nearby sensitive plant communities. During grading and construction, graded areas shall be periodically watered to minimize dust affecting adjacent vegetation.	Less than significant
	During Project operation, all recreational areas that use chemicals or animal by-products, such as manure, that are potentially toxic or impactive to sensitive habitats or plants shall incorporate methods on-site to reduce impacts caused by the application and/or drainage of such materials into Preserve areas.	
	No invasive nonnative plant species shall be introduced into areas immediately adjacent to the Preserve. All slopes immediately adjacent to the Preserve shall be planted with native species that reflect the adjacent native habitat.	
	During construction, material stockpiles shall be placed such that they cause minimal interference with on-site drainage patterns. This will protect sensitive vegetation from being inundated with sediment-laden runoff.	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and		Conclusion and Mitigation
Description of Impact	Mitigation	Effectiveness
SIGNIFICANT IMPACTS M	IITIGATED TO A LEVEL OF LESS THAN SIGNIF	FICANT
	Dewatering shall be conducted in accordance with standard regulations of RWQCB. A National Pollutant Discharge Elimination System (NPDES) permit, issued by RWQCB to discharge water from dewatering activities, shall be required prior to start of construction. This will minimize erosion, siltation, and pollution within sensitive communities.	
	Design of drainage facilities shall incorporate long- term control of pollutants and storm water flow to minimize pollution and hydrologic changes. An Urban Runoff Plan and operational BMPs shall be approved by the San Diego County Department of Planning and Development Services prior to construction.	
	Grading and/or improvement plans shall include the requirement that a fencing and signage plan be prepared and that permanent fences or walls be placed along the open space boundaries. Placement of permanent fencing or walls is required at the conclusion of the grading activity and prior to Record Plan approval.	
	A hydroseed mix that incorporates native species, is appropriate to the area, and is without invasive shall be used for slope stabilization in transitional areas.	
	Peruvian pepper trees and other invasive vegetation would not be planted in streetscapes, or within 50 feet of the Preserve, where they could impact native habitat.	
BI-10 Potential permanent impacts to San Diego fairy shrimp.	M-BI-10 Prior to the issuance of the first grading permit that impacts the K6 vernal pool complex, the Project applicants shall demonstrate to the satisfaction of the Director of Planning and Development Services (or his/her designee) that the Project has secured take authorization of San Diego fairy shrimp through Section 7 Consultation, a Section 10 incidental take permit, or as may be incorporated into the provisions of the MSCP Subarea Plan Quino Checkerspot Butterfly Amendment to achieve the best results toward the survival and recovery of the species. If the project receives take authorization through the federal Endangered Species Act (FESA) Section 7 or Section 10 processes, the Project Applicants will comply with any and all conditions, including preconstruction surveys that the USFWS may require for take of Fairy shrimp pursuant to FESA.	Less than significant

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	IITIGATED TO A LEVEL OF LESS THAN SIGNII	
BI-11 Potential permanent impacts to	M-BI-9a- Quino Take Authorization and Biological	Less than
Quino checkerspot butterfly.	Open Space Easement: First on or before the	significant
	recordation of the first Final Map that affects Prior to the issuance of the first grading permit that impacts	
	Quino checkerspot butterfly or its habitat, the Project	
	applicants shall demonstrate to the satisfaction of the	
	Director of Planning & and Development Services	
	(or her/his/her designee) that it has secured the	
	necessary take authorization for Quino Checkerspot	
	butterfly through one of the following: either the (a)	
	<u>federal Endangered Species Act (ESA)</u> Section 7	
	Consultation, (b) ESA Section 10 incidental take	
	permit-requirements, or (c) the County's MSCP	
	Subarea Plan Quino <u>C</u> heckerspot <u>B</u> Butterfly	
	Amendment, if and/when approved	
	pursuant to ESA Section 10. If the project receives	
	take authorization through the County's Quino	
	Checkerspot Butterfly Amendment, the project will satisfy any and all Quino checkerspot butterfly	
	mitigation requirements of the County. If the project	
	receives take authorization directly through the	
	federal ESA Section 7 or Section 10 processes, the	
	Project Applicants will comply with any and all	
	conditions, including preconstruction surveys that	
	the USFWS may require for take of Quino	
	checkerspot butterfly pursuant to FESA. The Project	
	shall provide preservation of 962 acres of the	
	required mitigation of 966 acres (2 x 483 acres). The	
	Project is required to provide an additional 4 acres of	
	occupied habitat. This mitigation is proposed to be	
	accomplished by restoration of unsuitable habitat	
	within the Preserve to suitable coastal sage scrub. Figure 2.3-18 illustrates the location of these	
	potential restoration areas. A total of 6.3 acres is	
	designated as potential restoration of which 4 acres	
	will be needed.	
	Second, the Project shall provide preservation of 962	
	acres of the required mitigation of 966 acres (2 x 483)	
	acres of impact to Quino habitat). The Project is	
	required to provide an additional 4 acres of occupied	
	habitat. This mitigation is proposed to be	
	accomplished by restoration of unsuitable habitat	
	within the Preserve to suitable coastal sage scrub,	
	Figure 2.3-18 illustrates the location of these	
	potential restoration areas. A total of 6.3 acres is	
	designated as potential restoration of which 4 acres	
	will be needed. This biological open space easement	
	shall be granted to and held by an entity of the	

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	Project Applicants' choosing, provided that the	
	biological open space easement meets the criteria set	
	forth in the Government Code Section 51075(d) and	
	is approved by the Director of Planning &	
	<u>Development Services</u> .	
	This biological open space easement shall be created	
	in perpetuity and shall be for the protection of	
	biological resources, and all of the following shall be	
	prohibited on any portion of the land subject to said easement: grading; excavating; placing soil, sand,	
	rock, gravel, or other material; clearing vegetation;	
	constructing, erecting, or placing any building or	
	structure; vehicular activities; dumping trash; or	
	using the area for any purpose other than as	
	biological open space. The only exceptions to this	
	prohibition are for activities conducted pursuant to a	
	revegetation or habitat management plan approved by the Director of Planning & Development	
	Services. This biological open space easement shall	
	authorize the County and its agents to periodically	
	access the land to perform management and	
	monitoring activities for species and habitat	
	conservation.	
	The Project Applicants shall show the on-site	
	biological open space easement on the Final Map	
	and biological open space easement exhibit with the	
	appropriate granting language on the title sheet	
	concurrent with Final Map Review. The Project	
	Applicants then shall submit these documents for preparation and recordation with the Department of	
	General Services, and pay all applicable fees	
	associated with preparation of the documents.	
	M-BI-9b Quino Checkerspot Butterfly	
	Management/ Enhancement Plan: Prior to the	
	issuance of the first grading permit that impacts Quino checkerspot butterfly, the Project applicants	
	shall prepare a long-term Quino Checkerspot	
	Butterfly Management/ Enhancement Plan that shall,	
	at a minimum, include a survey methodology for on-	
	site preserve areas pre- and post-construction to	
	monitor effects on Quino checkerspot butterfly	
	population health and shall apply to all lands	
	preserved by the biological open space easement	
	require by M-BI-9a (see Appendix C – Quino Checkerspot Butterfly Management/Enhancement	
	Plan of Appendix D-3 – Biological Resources	
	1 Iun of Appendix D-5 Diological Resources	<u> </u>

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
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SIGNIFICANT IMPACTS I		SICANI
	<u>Technical Report Supplemental Analysis –</u> <u>Alternative H)</u> . This plan will be submitted to, and	
	be to the satisfaction of, both-the Directors of the	
	Departments of Planning & Development Services.	
	the Director and of Parks and Recreation and the	
	Otay Ranch Preserve POM. The Quino Checkerspot	
	Butterfly Management/ Enhancement Plan mayshall	
	be superseded or unnecessary upon completion and	
	adoption of the County's MSCP Subarea Plan of	
	San Diego Quino Checkerspot Butterfly	
	Amendment MSCP Amendment. The plan will	
	include performance measures that may include but	
	are not limited to: annual restoration and	
	enhancement of 15 acres per year with quantitative	
	and qualitative requirements that outline the percent	
	native cover, percent survival, and percent nonnative	
	cover as well as reviewing the health and vigor of	
	host plants; quantifiable adaptive management	
	triggers that rely on yearly as needed population	
	monitoring and statistical changes in the population	
	size to then require restoration as noted above; or	
	reintroduction of the species and continued restoration of unoccupied areas when population	
	declines are not noted; establishment of a permanent	
	funding mechanism to work in concert with the	
	funding requirements of Preserve lands conveyed to	
	the POM. Adaptive management techniques shall be	
	developed within the plan with contingency methods	
	for changed circumstances. These measures shall	
	ensure that the potential loss of individuals and the	
	loss of habitat for the species related to the proposed	
	development are adequately offset by measures that	
	will enhance the existing preserved population, and	
	shall provide data that will help the species recover	
	throughout its range.	
	The musical will commit with all mitigation	
	The project will comply with all mitigation requirements associated with the County's MSCP	
	Subarea Plan Quino Checkerspot Butterfly	
	Amendment, if adopted. Adaptive management	
	techniques shall be developed within the plan with	
	contingency methods for changed circumstances.	
	These measures shall ensure that the potential loss of	
	individuals and the loss of habitat for the species	
	related to the proposed development are adequately	
	offset by measures that will enhance the existing	
	preserved population, and shall provide data that will	
	help the species recover throughout its range.	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and		Conclusion and Mitigation
Description of Impact	Mitigation	Effectiveness
SIGNIFICANT IMPACTS I	MITIGATED TO A LEVEL OF LESS THAN SIGNII	FICANT
BI-12 Potential permanent impacts to	M-BI-8 Prior to the issuance of land development	Less than
California adolphia.	permits, including clearing or grubbing and grading	significant
	permits, for areas with salvageable California	
	adolphia, the Project applicants may prepare a	
	Resource Salvage Plan if seed collection is considered to be warranted. As described above in	
	M-BI-1d, the project biologist shall review the	
	California adolphia (approximately 20 plants)	
	proposed to be impacted prior to grading and will	
	determine if salvage is warranted. If salvage is not	
	appropriate due to site conditions, plant conditions,	
	or reproductive stage of the plants, a letter indicating	
	that will be prepared and submitted to the Director of the Department of Planning and Development	
	Services and the Director of Parks and Recreation. If	
	determined that salvage is appropriate, a Resource	
	Salvage Plan shall be prepared by a county-approved	
	biologist to the satisfaction of the Director of	
	Planning and Development Services (or his/her	
	designee) and the Director of Parks and Recreation.	
	The Resource Salvage Plan shall, at a minimum,	
	evaluate options for seed collection within the	
	Preserve or from the plants proposed to be impacted. The Resource Salvage Plan shall include collection	
	methods and timing. Relocation efforts may include	
	seed collection and/or transplantation to a suitable	
	receptor site within the slope restoration areas and	
	will be based on the most reliable methods of	
	successful restoration. The plan shall also contain a	
	recommendation for method of salvage and	
	relocation/application based on feasibility of implementation and likelihood of success;	
	identification of receptor locations; discussion of the	
	goals of the plan; maintenance activities during the	
	monitoring period; monitoring plan; and inclusion of	
	performance standards, reporting schedules, and	
	long-term management. As an alternative, the	
	California adolphia may be included within planting	
	palettes for the slope revegetation areas that shall receive monitoring and shall be required to meet	
	restoration goals and success criteria. Prior to	
	grading the project, a Conceptual Upland	
	Restoration Plan (Appendix H of the Otay Ranch	
	Resort Village Biological Resources Technical	
	Report in Appendix C-3 to this EIR), as noted in	
	M-BI-1d, will be submitted to and receive approval	
	from the Director of the Department of Planning and Development Services (or their designee) and the	
	Development services (or men designee) and the	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	IITIGATED TO A LEVEL OF LESS THAN SIGNIF	
	Director of Parks and Recreation. The program shall include, at a minimum, an implementation plan, maintenance and monitoring program, estimated completion time, and any relevant contingency measures. The program shall also be subject to the oversight of the Director of Planning and Development Services (or his/her designee) and the Director of Parks and Recreation.	
BI-13 Potential indirect impacts to sensitive plant species	M-BI-14 During construction, material stockpiles shall be covered when not in use. This will prevent fly-off that could damage nearby sensitive plant communities. During grading and construction, graded areas shall be periodically watered to minimize dust affecting adjacent vegetation.	Less than significant
	During Project operation, all recreational areas that use chemicals or animal by-products, such as manure, that are potentially toxic or impactive to sensitive habitats or plants shall incorporate methods on-site to reduce impacts caused by the application and/or drainage of such materials into Preserve areas.	
	No invasive nonnative plant species shall be introduced into areas immediately adjacent to the Preserve. All slopes immediately adjacent to the Preserve shall be planted with native species that reflect the adjacent native habitat.	
	During construction, material stockpiles shall be placed such that they cause minimal interference with on-site drainage patterns. This will protect sensitive vegetation from being inundated with sediment-laden runoff.	
	Dewatering shall be conducted in accordance with standard regulations of RWQCB. A National Pollutant Discharge Elimination System (NPDES) permit, issued by RWQCB to discharge water from dewatering activities, shall be required prior to start of construction. This will minimize erosion, siltation, and pollution within sensitive communities.	
	Design of drainage facilities shall incorporate long- term control of pollutants and storm water flow to minimize pollution and hydrologic changes. An Urban Runoff Plan and operational BMPs shall be approved by the San Diego County Department of Planning and Development Services prior to construction.	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and	Mitiration	Conclusion and Mitigation
Description of Impact	Mitigation IITIGATED TO A LEVEL OF LESS THAN SIGNII	Effectiveness EICANT
	Grading and/or improvement plans shall include the requirement that a fencing and signage plan be prepared and that permanent fences or walls be placed along the open space boundaries. Placement of permanent fencing or walls is required at the conclusion of the grading activity and prior to Record Plan approval.	
	A hydroseed mix that incorporates native species, is appropriate to the area, and is without invasives shall be used for slope stabilization in transitional areas.	
	Peruvian pepper trees and other invasive vegetation would not be planted in streetscapes, or within 50 feet of the Preserve, where they could impact native habitat.	
BI-14 Potential indirect impacts to sensitive wildlife species	M-BI-15 No clearing, grading, or grubbing activities may occur within occupied gnatcatcher habitat during the breeding season for coastal California gnatcatcher (February 15 to August 15, annually). If construction occurs during the breeding season, a nesting survey for California gnatcatcher shall be conducted prior to the onset of construction and construction may occur if active nests can be avoided and provided an adequate buffer or noise levels are documented to be below 60 dBA L _{eq} at the nest site.	Less than significant
	When clearing, grading, or grubbing activities occur during the breeding season for raptors (January 15 to July 31, annually), nesting bird surveys shall be conducted by a qualified biologist for the San Diego County Department of Planning and Development Services to identify active nest locations. Construction activities shall be restricted or modified such that noise levels related to those activities are below 60 dBA L _{eq} , or other Wildlife Agency approved restrictions, in the vicinity of the active nest site.	
	Lighting of all developed areas adjacent to the preserve shall be directed away from the preserve, wherever feasible and consistent with public safety. Where necessary, development shall provide adequate shielding with non-invasive plant materials (preferably native), berming, and/or other methods to protect the preserve and sensitive species from night lighting. Consideration shall be given to the use of low-pressure sodium lighting.	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	MITIGATED TO A LEVEL OF LESS THAN SIGNII	
	Uses in or adjacent to the preserve shall be designed to minimize noise impacts. Berms or walls shall be constructed adjacent to commercial areas and any other use that may introduce noises that could impact or interfere with wildlife utilization of the preserve. Excessively noisy uses or activities adjacent to breeding areas must incorporate noise-reduction measures or be curtailed during the breeding season of sensitive bird species.	
	Grading and/or improvement plans shall include the requirement that a fencing and signage plan be prepared and that permanent fences or walls be placed along the open space boundaries. Placement of permanent fencing or walls is required at the conclusion of the grading activity and prior to Record Plan approval.	
BI-15 Potential direct and indirect impacts to nesting migratory birds	M-BI-11 To avoid any direct impacts to raptors and/or any migratory birds protected under the MBTA, removal of habitat that supports active nests on the proposed area of disturbance shall occur outside of the breeding season for these species. If removal of habitat on the proposed area of disturbance must occur during the breeding season, the Project applicants shall retain a County-of-San-Diego-approved biologist to conduct a preconstruction survey to determine the presence or absence of nesting birds on the proposed area of disturbance. The pre-construction survey shall be conducted within 10-3 calendar days prior to the start of construction, and the results shall be submitted to the County of San Diego for review and approval prior to initiating any construction activities. If nesting birds are detected, a letter report or mitigation plan, as deemed appropriate by the County of San Diego, shall be prepared and include proposed measures to be implemented to ensure that disturbance of breeding activities are avoided. The report or mitigation plan shall be submitted to the County of San Diego for review and approval, and implemented to the satisfaction of the Director of Planning and Development Services (or his/her designee). The County of San Diego's mitigation monitor shall verify and approve that all measures identified in the report or mitigation plan are in place prior to and/or during construction.	Less than significant

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
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BI-16 Potential direct and indirect impacts to wildlife	M-BI-12 Four wildlife culverts shall be constructed to provide and improve habitat linkages and movement corridors (Figure 2.3-14). In general, the design of the wildlife culverts has been developed to be consistent with the MSCP Subarea Plan, where feasible. The wildlife culverts shall have fencing to funnel wildlife movement, shall have a natural bottom with native vegetation at either end, and shall be of size and height of opening so there is direct line of site from one end to the other. Because there is natural light within the culverts, low level illumination is not included. Traffic is generally of low volume on the internal crossings hence the sound insulation is of little benefit. The details of each wildlife culvert or crossing that shall be provided are presented below.	Less than significant
	Internal Wildlife Crossing No. 1 (214 feet long × 28.83 feet wide × 13.17 feet tall = openness ratio of 0.44)	
	This arch culvert structure shall be situated internal to the project site along Strada Piazza, which connects the central portion of the open space to the lakereservoir. The 150-foot length is augmented by wing walls on either side of the crossing structure. This is beneficial as it effectively visually decreases the length of the culvert.	
	Otay Lakes Road Wildlife Crossing No. 1 (95 feet long × 20.75 feet wide × 12.08 feet tall = openness ratio of 0.68)	
	This structure shall be located south of Internal Wildlife Crossing no. 1 along Otay Lakes Road. The culvert is sized appropriately and should function as intended. It is well below the grade of Otay Lakes Road to prevent wildlife movement up to the surface of the roadway. There is also a six foot wildlife path with a soft surface along this crossing to allow for wildlife movement.	
	Internal Wildlife Crossing No. 2 (248 feet long × 43.00 feet wide × 16.18 feet tall = openness ratio of 0.63)	
	This structure shall be situated along Strada Piazza, which is a single non-split roadway at this location. The culvert slopes 12% to the south. This culvert conveys wildlife to a location just east of Lower Otay Lake-Reservoir to quality riparian habitat and	

Table S.1 Summary of Significant Effects and Mitigation Measures

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Description of Impact	Mitigation	Effectiveness
SIGNIFICANT IMPACTS M	lands to the east. Wing walls occur at both ends of the culvert. There is also a six foot wildlife path with a soft surface along this crossing to allow for wildlife movement.	FICANT
	Otay Lakes Road Wildlife Crossing No. 2 (58 feet long × 20.75 feet wide × 12.08 feet tall = openness ratio of 1.12)	
	This structure shall be located south of Internal Wildlife Crossing no. 2 under Otay Lakes Road. This crossing is also located below the grade of Otay Lakes Road to prevent wildlife from gaining access to the surface of the roadway. There is also a six foot wildlife path with a soft surface along this crossing to allow for wildlife movement.	
	2.4 Cultural Resources	
	2.4.2.2 Prehistoric Resources	
CR-1 Potential impacts to archaeological resources (nine prehistoric sites) within the proposed grading and brushing envelope.	M-CR-1 Prior to the issuance of grading permits, the Project applicant shall implement or cause the implementation of a data recovery program, as described below, for the following nine sites located within the proposed grading and brushing envelope:	Less than significant
	SDI-11,406 SDI-11,409 SDI-12,368 SDI-12,371 SDI-16,303 SDI-16,309 SDI-16,312 SDI-16,326 SDI-16,332	
	Data Recovery Program	
	The data recovery program is contingent upon extracting a sample that will exhaust the data potential of each site. The County has not adopted a policy that identifies the specific level of excavation required to achieve mitigation of impacts by data recovery. In most cases, the level of sampling is dictated by the information potential of the site. Data recovery is commonly discussed in terms of sampling percentages, referring to the percent of the area of the significant subsurface deposit to be excavated. The general approach for achieving the mitigation of impacts through data recovery would begin with an indexing of the site. The site index shall include a sufficient sample of the subsurface deposit, ranging from 2.5 to 4.0 percent of each deposit, to effectively stratify the deposits into areas of differing artifact content, densities, and activity areas. The small percentage value proposed for site indexing is reflective of the basic characterization of each of the significant sites as quarry locations with	

Table S.1 Summary of Significant Effects and Mitigation Measures

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Description of Impact	Mitigation MITIGATED TO A LEVEL OF LESS THAN SIGNII	Effectiveness ELCANT
	minimal evidence of occupation activities. The indexing process shall use a static grid to cover each site, with a sample unit placed in each grid cell. Using a grid will produce a very structured, nonrandom, and uniform index of the content of each cultural deposit. Within the portion(s) of each site that retains the greatest research potential, an additional 2 percent of that area shall be excavated. For most sites in the data recovery program, the area excavated shall be between 2.5 and 3 percent of the significant subsurface deposit (area of greater research potential). This volume of recovery would be sufficient to successfully pursue the research objectives of the research design and to provide other researchers with a large information resource. At the sites considered to retain the greatest research potential, a third level of stratified sampling may be implemented to focus block excavations on areas that demonstrate intense artifact recovery, features, or multi-cultural depositional patterns.	
	The excavation of the subsurface deposits shall be accomplished with standard 1-meter-square test units excavated by hand in 10-centimeter levels. All units shall be screened, mapped, measured, and photographed through standard stratigraphic control measures. A more detailed description of the field methods to be used is provided in Section 10.5 of the Archaeological/Historical Study provided in this EIR, Appendix C-4 .	
	For the phases of work at each site, the first phase shall be the site indexing and the second phase shall be the focused investigation. A third phase, if warranted, would be extremely focused on high-potential elements of any significant site. Each phase has specific goals: the site index is a nonrandom representative sample of the entire site, while the second and third phases are focused, biased, and intuitive studies of the area within the deposit that has the greatest potential.	
	The grid for each site shall be determined by the number of sample units needed to accomplish the sample level of 2.5 percent. For most sites, the grid shall be set at 15-meter or 25-meter intervals. To calculate the grid size, the number of test units that represent the Phase 1 sample was divided into the calculated area of the deposit. The resulting quotient represents the area within each grid cell, and the	

Table S.1 Summary of Significant Effects and Mitigation Measures

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	square root of this value provides the dimension of the grid cell. For example, assuming a site contained 2,000 square meters of a cultural deposit, a 2.5 percent sample would be 50 square meters. The grid size would be determined by dividing the deposit size (2,000 square meters) by the number of units (50), which equals 40 square meters. The square root of 40 square meters is 6.3 meters; thus, the intersection of each grid line is spaced at 6.3 meters. Within each 6.3-meter by 6.3-meter grid cell, one test unit would be excavated to complete the site index.	
	For consistency, all of the sites shall be treated similarly, with an index phase followed by a focused, intuitive phase in the area of greatest importance. The phases of the sampling procedure to be used at the sites included in the data recovery program are as follows.	
	Data Recovery Program Phase 1	
	The first phase of excavation at any particular site shall typically involve a 2.5 percent sample used to index the site content and document intra-site variation. Test units shall be uniformly distributed within each site using a grid system. For most sites, the presence of multiple rock outcroppings would constitute voids in the sample grid. These areas would be deleted from the calculations of site deposits when the data recovery programs are initiated; however, the areas represented by the outcrops cannot be calculated at this time.	
	Data Recovery Program Phase 2 The second phase of excavation shall consist of a 2 to 4 percent sample of each site area identified as representing the greatest research potential. The stratification of the site following the Phase 1 work would typically identify an area of approximately 10 percent of the sample area identified as retaining additional research potential. For this sampling phase, the test units must not be randomly placed but shall be intuitively located at the discretion of the archaeologist.	
	Data Recovery Program Phase 3	
	The last phase of excavation shall be conducted at any sites that are found to contain particularly important deposits worthy of extended excavation.	

Mitigation	Mitigation Effectiveness
The sample size of any such area is dependent on the nature of the deposit and research potential.	
The procedures noted above shall be applied to each of the sites listed below in addition to any site-specific mitigation measures. The actual number of square meters to be excavated in any particular site would depend on the site size, importance, and research potential. The projected size of the sample for each of the sites listed below is a minimum of 2.5 percent, but the actual size of the sample needed to satisfy the data needs of the research objectives will ultimately be determined by the assessment of the recovery from the sample. The possibility exists that previously unidentified subsurface deposits would be identified during data recovery, increasing the research potential of a significant site. In this case, the sample size of the Phase 1 or Phase 2 excavation may be readjusted. If the recovery from any site is evaluated as redundant even before the minimum Phase 1 sample level of 2.5 percent is achieved, the consulting archaeologist shall request a variance from the County of San Diego to reduce the sample size to reflect the redundancy of the sample. This request would need to be supported by data and analysis from the excavations in progress at the site(s) in question. At each site, a backhoe may be employed following the completed sampling program to search for any anomalies within the site. Trenches would be used to expose portions of the sites; however, the number of trenches used in this type of investigation would be discussed and	
approved by the County before initiation. Backhoe Trenching	
All sites that are subject to data recovery and test unit excavations shall be subject to backhoe trenching following the test unit excavations to search for any unusual features or anomalies that would need to be examined further. The number and locations of the trenches to be excavated at each site shall be determined by the archaeologist on the basis of the size of the site and the recovery from the test units. If the trenches reveal the presence of deposits or features within a site that were not previously detected, then additional test units shall be excavated to expose the features and permit further	
	nature of the deposit and research potential. The procedures noted above shall be applied to each of the sites listed below in addition to any site-specific mitigation measures. The actual number of square meters to be excavated in any particular site would depend on the site size, importance, and research potential. The projected size of the sample for each of the sites listed below is a minimum of 2.5 percent, but the actual size of the sample needed to satisfy the data needs of the research objectives will ultimately be determined by the assessment of the recovery from the sample. The possibility exists that previously unidentified subsurface deposits would be identified during data recovery, increasing the research potential of a significant site. In this case, the sample size of the Phase 1 or Phase 2 excavation may be readjusted. If the recovery from any site is evaluated as redundant even before the minimum Phase 1 sample level of 2.5 percent is achieved, the consulting archaeologist shall request a variance from the County of San Diego to reduce the sample size to reflect the redundancy of the sample. This request would need to be supported by data and analysis from the excavations in progress at the site(s) in question. At each site, a backhoe may be employed following the completed sampling program to search for any anomalies within the site. Trenches would be used to expose portions of the sites; however, the number of trenches used in this type of investigation would be discussed and approved by the County before initiation. Backhoe Trenching All sites that are subject to data recovery and test unit excavations shall be subject to backhoe trenching following the test unit excavations to search for any unusual features or anomalies that would need to be examined further. The number and locations of the trenches to be excavated at each site shall be determined by the archaeologist on the basis of the size of the site and the recovery from the test units. If the trenches reveal the presence of depos

Table S.1 Summary of Significant Effects and Mitigation Measures

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	SDI-16,326; and 16,332) that lie partially within the development envelope and partially within the Preserve (open space), the data recovery mitigation program would include portions of these sites within the development envelope as well as an area 10-feetwide extending into the open space portion of the site. This extension of the data recovery program into the open space portions of the sites is intended to provide mitigation for indirect impacts in the buffer area of the open space that directly affects the development envelope.	
	Data Recovery Procedures	
	For all sites that are subject to data recovery, the program to carry out the necessary data recovery procedures, including the applicable field methodologies, laboratory analyses, and special studies for these sites, shall be provided as described below.	
	The data recovery program must be consistent with the policies and guidelines of the County and with the California Office of Historic Preservation (OHP) publication, Guidelines for Archaeological Research Design Preservation Planning Bulletin No. 5 (1991).	
	Field Methods The data recovery program shall focus on the excavation of test units measuring 1-meter-square to a minimum depth of 30 centimeters or until bedrock is encountered. If cultural materials are present beyond this depth, the excavation shall continue until one sterile level is exposed. The units shall be excavated in controlled, 10-centimeter levels. All removed soils shall be sifted through 1/8-inch mesh hardware cloth. All artifacts recovered during the screening process shall be properly labeled with provenience information in the field and subsequently subjected to standard laboratory procedures of washing (if appropriate) and cataloging. The excavation of the units shall be documented with field notes, illustrations, and photographs.	
	At the conclusion of the test unit excavations, backhoe trenches may be excavated to investigate the site(s) further and search for any unusual features or artifact concentrations. When a backhoe	

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
SIGNIFICANT IMPACTS	MITIGATED TO A LEVEL OF LESS THAN SIGNI	FICANT
	is used, the methodology to be followed is outlined below:	
	All trenches must be excavated under the supervision of the Project archaeologist.	
	All trenches must be mapped, measured, photographed, and sketched.	
	Periodic screening of the excavated material from the trenches shall be conducted.	
	Provenience data for all screened soil shall be recorded.	
	Based on data from the backhoe trenches, the data recovery program could be expanded to focus on features or unique deposits that differ from the materials already studied.	
	Any features discovered during the archaeological excavations shall be exposed through careful hand excavation. Additional test units may be needed to fully expose the features, which shall then be recorded by sketching and photography. Any datable materials found in association with discovered features shall be collected for radiocarbon dating. If obvious datable samples cannot be found at the sites in the data recovery program, then several bulk soil samples may be collected and processed in an attempt to date the deposits.	
	At each site, column samples shall be taken to permit microanalysis of midden contents. The columns shall measure 10 centimeters square and shall conform to the walls of selected completed test units to the bottom of the deposit. All of the soil from the column shall be collected and not screened in the field. The samples shall be returned to the laboratory for analysis. In addition, during hand excavation, special attention shall be given to the identification of lithic tools found in situ and their potential for residue analysis. When possible, such tools shall be bagged separately, thereby excluding them from the wet-screening process. A sample of the surrounding soil shall be collected to serve as a control sample, should the artifact be chosen for pollen, phytolith, or blood residue analyses.	
	Throughout the field operations, standard archaeological procedures shall be implemented. All	

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	test units and features shall be mapped using the established datums.	
	<u>Laboratory Analysis</u>	
	All of the materials recovered from the field excavations shall be subjected to standard laboratory analysis. Artifacts may be washed, if necessary, to permit proper identification. The artifacts shall be sorted and cataloged, including counts, materials, condition, weight, provenience, and unique artifact identification numbers.	
	The lithic artifacts recovered from the Project site shall be subjected to analysis, which shall include recordation of critical measurements and weight, and inspection for evidence of use/wear, retouch, patination, or stains. The recovered flakes (or a representative sample) shall be subject to an analysis of attributes such as size, condition, type, termination, and material. The attribute analysis shall include the flake collections recovered during the testing program.	
	Nonlithic materials, such as ecofacts (shell and bone), shall be subject to specialized analyses. The shell shall be cataloged by species and weight of recovery per level. The bone material shall be weighed and subsequently submitted for specialized faunal analysis. The laboratory analysis of the column samples may include flotation procedures to remove seeds and other microfaunal remains from the soil, followed by the screening of the remainder through a 1/16-inch mesh sieve, if the potential for nonlithic materials is noted in the deposit.	
	Other specialized studies that shall be conducted if the appropriate materials are encountered during the data recovery program include marine shell species identification, faunal analysis, otolith analysis (for seasonality), oxygen isotopic analysis (also for seasonality), radiocarbon dating, obsidian sourcing and hydration, and blood residue and phytolith studies. These specialized studies are briefly described below.	
	Shell Analysis	
	Analysis of any shell recovery would include the speciation of all shell fragments collected. The shell shall be recorded by weight and shall include a count	

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of hinges to determine the minimum number of individuals represented by the recovery.	
Faunal Analysis	
Any bone material recovered during the data recovery program shall be analyzed by a faunal expert to identify species, types, age, and evidence of burning or butchering. The prehistoric bone recovery shall provide information concerning diet, activity areas within the sites, the habitats exploited, and methods of processing.	
Radiocarbon Dating	
This dating technique shall be attempted whenever possible. The investigations conducted thus far have not recovered any dateable material, although bulk soil dating was not attempted to determine if the deposits contained sufficient carbon for dating. The radiocarbon dating would be useful in conjunction with the stratigraphic recovery of cultural materials to establish the chronology of the sites. Therefore, the collection of samples for dating should be based on the presence of diagnostic artifacts, features, or geological strata delineations. In conjunction with the research topics, any possible opportunities to delineate parts of sites into Late Prehistoric and Archaic periods shall be advanced through the use of dating methods.	
Blood Residue Studies	
Organic residue on lithic artifacts may be useful in the determination of the species of animals represented by the residue. However, the use of blood residue studies is necessarily dependent upon the identification of such residues on artifacts. The detection of blood residue shall be made prior to any washing of artifacts so that the residue samples will not be lost.	
Isotopic Profiles	
The analysis of Oxygen-18 isotopic profiles from shells may be used to determine the season during which the shells were collected. This process measures the ratio of isotopes of oxygen, which is determined by water temperature. A minimum of five shells shall be used in this analysis, particularly if no other means of determining seasonality can be	
	individuals represented by the recovery. Faunal Analysis Any bone material recovered during the data recovery program shall be analyzed by a faunal expert to identify species, types, age, and evidence of burning or butchering. The prehistoric bone recovery shall provide information concerning diet, activity areas within the sites, the habitats exploited, and methods of processing. Radiocarbon Dating This dating technique shall be attempted whenever possible. The investigations conducted thus far have not recovered any dateable material, although bulk soil dating was not attempted to determine if the deposits contained sufficient carbon for dating. The radiocarbon dating would be useful in conjunction with the stratigraphic recovery of cultural materials to establish the chronology of the sites. Therefore, the collection of samples for dating should be based on the presence of diagnostic artifacts, features, or geological strata delineations. In conjunction with the research topics, any possible opportunities to delineate parts of sites into Late Prehistoric and Archaic periods shall be advanced through the use of dating methods. Blood Residue Studies Organic residue on lithic artifacts may be useful in the determination of the species of animals represented by the residue. However, the use of blood residue studies is necessarily dependent upon the identification of such residues on artifacts. The detection of blood residue shall be made prior to any washing of artifacts so that the residue samples will not be lost. Isotopic Profiles The analysis of Oxygen-18 isotopic profiles from shells may be used to determine the season during which the shells were collected. This process measures the ratio of isotopes of oxygen, which is determined by water temperature. A minimum of five shells shall be used in this analysis, particularly

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SIGNIFICANT IMITACTS	used. Use of his type of analysis is not likely due to the paucity of shell at the site. Obsidian Hydration and Sourcing	JCANT
	Any recovered obsidian artifacts shall be submitted to a specialist to determine the source of the lithic material. The obsidian shall also be analyzed to produce hydration readings, which may then be used to provide relative dates for the use of the artifacts.	
	Monitoring	
	All brushing and grading activities within the Project site shall be monitored on a full-time basis by one or more archaeologists, as dictated by the size of the grading operation. All utility excavations, road grading, or brush removal must be coordinated with the archaeological monitor. Any known resources that are graded must be intensively monitored during grading to ensure that any important features, isolates, or deposits are either recorded and collected, or excavated. Should any resources be encountered during the monitoring of the brushing and grading that were not previously recorded, the action shall be temporarily halted or redirected to another area while the nature of the discovery is evaluated. Any resources that may be encountered shall require testing to determine their significance. If the testing demonstrates that a resource is significant, then a data recovery program shall be implemented consistent with these mitigation measures.	
	<u>Cultural Material Curation</u>	
	Cultural materials recovered from the Project site shall be permanently curated at a facility that meets federal standards per 36 Code of Federal Regulations (CFR) Part 79, and therefore would be professionally curated and made available to other archaeologists/researchers for further study. No other collections from previous studies could be located at the time of this study. Should any additional collections be discovered from previous studies, these will be curated with the collections generated from the site evaluations.	
	Site-Specific Data Recovery Programs	
	As part of the data recovery program and other actions described above under mitigation measure M-CR-1, the Project applicant shall also cause a	

Table S.1 Summary of Significant Effects and Mitigation Measures

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SIGNIFICANT IMPACTS M	Data Recovery program to be implemented for each of the nine CEQA significant prehistoric sites that would be impacted by implementation of the proposed Project as described below.	FICANT
	M-CR-1a Prior to the issuance of a grading permit, the Project applicant shall cause a Data Recovery program to be implemented for Site SDI-11,406, which shall focus on a uniform indexing of the subsurface deposit. This first level of index sampling shall consist of a 2.5 percent sample of the 858-square-meter deposit. This represents a sample of 21 square meters for the Phase 1 index. The proposed Phase 2 excavations are projected based on an area of increased research potential estimated to be approximately 10 percent of the 858 square meters; the exact number of Phase 2 excavations shall depend on the results of the Phase 1 excavations.	
	M-CR-1b Prior to the issuance of a grading permit, the Project applicant shall cause a Data Recovery program to be implemented for Site SDI-11,409, which shall focus on a uniform indexing of the subsurface deposit. This first level of index sampling shall consist of a 2.5 percent sample of the 10,637-square-meter subsurface deposit. This represents a sample of 266 square meters for the Phase 1 index. The proposed Phase 2 excavations are projected based on an area of increased research potential estimated to be approximately 5 percent of the 10,637 square meters; the exact number of Phase 2 excavations shall depend on the results of the Phase 1 excavations.	
	M-CR-1c Prior to the issuance of a grading permit, the Project applicant shall cause a Data Recovery program to be implemented for Site SDI-12,368, which shall focus on a uniform indexing of the focused subsurface deposit. This first level of index sampling shall consist of a 2.5 percent sample of the 1,735-square-meter deposit. This represents a sample of 43 square meters for the Phase 1 index. The County of San Diego has also required that a 10-foot-wide buffer within the open space portion of SDI-12,368 be subjected to data recovery. This will add five test units to the sample. The proposed Phase 2 excavations are projected based on an area of increased research potential estimated to be approximately 10 percent of the 1,735 square meters; the exact number of Phase 2 excavations	

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	shall depend on the results of the Phase 1 excavations.	
	M-CR-1d Prior to the issuance of a grading permit, the Project applicant shall cause a Data Recovery program to be implemented for Site SDI-12,371, which shall focus on a uniform indexing of the subsurface deposit. This first level of index sampling shall consist of a 2.5 percent sample of the 781-square-meter deposit. This represents a sample of 20 square meters for the Phase 1 index. The proposed Phase 2 excavations are projected based on an area of increased research potential estimated to be approximately 10 percent of the 781 square meters; the exact number of Phase 2 excavations shall depend on the results of the Phase 1 excavations.	
	M-CR-1e Prior to the issuance of a grading permit, the Project applicant shall cause a Data Recovery program to be implemented for Site SDI-16,303, which shall focus on a uniform indexing of the subsurface deposit. This first level of index sampling shall consist of a 2.5 percent sample of the 67-square-meter deposit. This represents a sample of 2 square meters for the Phase 1 index. The proposed Phase 2 excavations are projected based on an area of increased research potential estimated to be approximately 10 percent of the 67 square meters; the exact number of Phase 2 excavations shall depend on the results of the Phase 1 excavations.	
	M-CR-1f Prior to the issuance of a grading permit, the Project applicant shall cause a Data Recovery program to be implemented for Site SDI-16,309, which shall focus on a uniform indexing of the subsurface deposit. This first level of index sampling shall consist of a 2.5 percent sample of the 5,496-square-meter deposit. This represents a sample of 137 square meters for the Phase 1 index. The proposed Phase 2 excavations are projected based on an area of increased research potential estimated to be approximately 10 percent of the 5,496 square meters; the exact number of Phase 2 excavations shall depend on the results of the Phase 1 excavations.	
	M-CR-1g Prior to the issuance of a grading permit, the Project applicant shall cause a Data Recovery program to be implemented for Site SDI-16,312, which shall focus on a uniform indexing of the	

Table S.1 Summary of Significant Effects and Mitigation Measures

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SIGNIFICANT IMPACTS M	IITIGATED TO A LEVEL OF LESS THAN SIGNII	FICANT
	subsurface deposit. Approximately 24 percent of this site will be impacted, including 1,618 square meters of the 4,967-square-meter deposit identified. This first level of index sampling shall consist of a 2.5 percent sample of the 1,618-square-meter deposit. This represents a sample of 41 square meters for the Phase 1 index. The County of San Diego has also required that a 10-foot-wide buffer within the open space portion of SDI-16,312 be subjected to data recovery. This will add eight test units to the sample. The proposed Phase 2 excavations are projected based on an area of increased research potential estimated to be approximately 10 percent of the 1,618 square meters; the exact number of Phase 2 excavations shall depend on the results of the Phase 1 excavations, but it is estimated to be a sample of	
	three additional test units. M-CR-1h Prior to the issuance of a grading permit, the Project applicant shall cause a Data Recovery program to be implemented for Site SDI-16,326, which shall focus on a uniform indexing of the subsurface deposit. The site contains three separate deposits, of which only the western deposit will be impacted. The western subsurface component encompasses an area of 860 square meters. This first level of index sampling shall consist of a 2.5 percent sample of the 860-square-meter deposit. This represents a sample of 22 square meters for the Phase 1 index. The County of San Diego has also required that a 10-foot-wide buffer strip within the open space portion of SDI-16,326 be subjected to data recovery. This will add eight test units to the sample. The proposed Phase 2 excavations are projected based on an area of increased research potential estimated to be approximately 10 percent of the 860 square meters; the exact number of Phase 2 excavations shall depend on the results of the	
	Phase 1 excavations. M-CR-1i Prior to the issuance of a grading permit, the Project applicant shall cause a Data Recovery program to be implemented for Site SDI-16,332, which shall focus on a uniform indexing of the subsurface deposit. The total area of the subsurface deposits is approximately 1,731 square meters. The development will impact approximately one-third of SDI-16,332, including 924 square meters of the significant subsurface deposits. This first level of	

Table S.1 Summary of Significant Effects and Mitigation Measures

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SIGNIFICANT IMPACTS IV	index sampling shall consist of a 2.5 percent sample of the 924-square-meter deposit. This represents a sample of 23 square meters for the Phase 1 index. The County of San Diego has also required that a 10-foot-wide buffer strip within the open space portion of SDI-16,332 be subjected to data recovery. This will add seven test units to the sample. The proposed Phase 2 excavations are projected based on an area of increased research potential estimated to be approximately 10 percent of the 924 square meters; the exact number of Phase 2 excavations shall depend on the results of the Phase 1 excavations.	TCAINT
	M-CR-1j All cultural materials recovered from the Project, either during the mitigation program or during the past archaeological testing programs, shall be professionally prepared for permanent curation at a local facility meeting the criteria for such curation centers as listed in 36CFR79. The cost to curate collections shall be the responsibility of the applicant. Copies of field notes, reports, maps and catalog data shall be included with the curated collection.	
CR-2 Potential indirect impacts to archaeological resources (10 prehistoric sites) within the designated open space area, including potential impacts associated with the future use of the Preserve for public hiking and riding trails.	M-CR-2a All sites, regardless of significance status, that are located outside of the development area shall be placed in open space easements. The sites may be included in general Project-wide open space preserves, in which case, site-specific easements would not be necessary. For sites that would be preserved within the development envelope, easements shall be dedicated for individual sites unless incorporated within larger biological or other open space designation. The open space designation shall include language that prohibits any type of surface modification to the sites or intrusions into the site by grading, trenching, or other development-related improvements. For any sites located within open space, a park area, or the Preserve, specific requirements for individual sites are necessary to ensure that the sites are not impacted by maintenance or landscaping. Open space areas shall be transferred to County Department of Parks and Recreation (County Parks) and maintained as part of the Preserve. County Parks shall assume responsibility for the protection of the sites in the open space areas as part of the management of the Preserve. Aside from temporary fencing during	Less than significant

Table S.1 Summary of Significant Effects and Mitigation Measures

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	grading and construction to ensure preservation during this period, no individual site preservation measures are deemed necessary during development activities. Subsequently, the long-term protection of the sites will be achieved through management of the Preserve by County Parks. During grading or brushing, the monitoring archaeologist shall determine the need for temporary fences and direct their installation to provide a physical barrier between the grading machinery and adjacent significant cultural resources that are designated for preservation or eventual data recovery. Once the open space areas are transferred to the Preserve, it will become the responsibility of the Preserve	
	owner/manager to maintain the easements for the archaeological sites. M-CR-2b Prior to any improvements to existing trails or development of new trails, improvement plans shall be reviewed by the Project archaeologist under the direction of the County to determine the potential for impacts to cultural resources, and the need for additional field research, testing, mitigation for potential impacts during construction and use, and monitoring of construction. The requirements of mitigation measure M-CR-1 for data recovery and analysis, including Native American monitoring, shall be applied during all subsequent surveys if new cultural resources are identified.	
	2.4.2.3 Human Remains	
CR-3 Potential impacts to buried human remains	M-CR-3 In the event that human burials are encountered, standard procedures for such discoveries shall be implemented, including notification of the County Coroner's Office, the County, the Native American Heritage Commission and local Native American representatives. Fieldwork shall cease in the area of any such discovery. The Native American representative and the County shall be consulted to determine a preferred course of action, and the burial shall be treated according to the requirements of Public Resources Code §5097.98.	Less than significant
	2.4.2.4 Paleontological Resources	T
CR-4 Potential impacts to paleontological resources within the upper sandstone/mudstone, middle gritstone, and lower fanglomerate members of the Otay Formation.	M-CR-4 Paleontological monitoring shall be conducted during all mass grading and excavation activities in surface exposures of the Otay Formation to mitigate any adverse impacts (i.e., loss or destruction) to potential nonrenewable	Less than significant

Table S.1 Summary of Significant Effects and Mitigation Measures

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	paleontological resources. A mitigation monitoring and reporting program consistent with County and CEQA guidelines and requirements shall be developed and implemented prior to any mass grading and/or excavation-related activities, including utility trenching, within the Otay Formation. The mitigation monitoring and reporting program shall be conducted in accordance with the following procedures:	
	A. A Qualified Paleontologist or Paleontological Resources Monitor (under the supervision of the Qualified Paleontologist) shall be on-site during all excavation operations within geologic formations that may contain paleontological resources (i.e., the Otay Formation). The Qualified Project Paleontologist is a person with a Ph.D. or master's degree in paleontology or related field, and who has knowledge of San Diego County paleontology, and documented experience in professional paleontological procedures and techniques. A Paleontological Monitor is defined as an individual with at least 1 year of experience in field identification and collection of fossil materials. The Paleontological Monitor shall work under the direct supervision of the Qualified Paleontologist. The applicant shall authorize the Qualified Paleontologist and/or Paleontological Monitor to direct, divert, or halt any grading activity, and to perform all other acts required by the provisions listed below.	
	B. The Qualified Paleontologist and/or Paleontological Monitor shall monitor all grading and excavation activities of undisturbed formations of sedimentary rock;	
	C. If paleontological resources are unearthed, the Qualified Paleontologist or Paleontological Monitor shall do the following:	
	1. Direct, divert, or halt any grading or excavation activity until such time that the sensitivity of the resource can be determined and the appropriate recovery implemented.	
	2. Salvage unearthed fossil remains, including simple excavation of exposed specimens or, if necessary, plaster-jacketing of large and/or fragile specimens or more elaborate quarry excavations of richly fossiliferous deposits.	

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	3. Record stratigraphic and geologic data to provide a context for the recovered fossil remains, typically including a detailed description of all paleontological localities within the Project site, as well as the lithology of fossilbearing strata within the measured stratigraphic section, if feasible, and photographic documentation of the geologic setting.	
	4. Prepare collected fossil remains for curation to include cleaning the fossils by removing the enclosing rock material; stabilizing fragile specimens using glues and other hardeners, if necessary; and repairing broken specimens.	
	5. Curate, catalog, and identify all fossil remains to the lowest taxon possible; inventory specimens; assign catalog numbers; and enter the appropriate specimen and locality data into a collection database.	
	6. Transfer the cataloged fossil remains to an accredited institution (museum or university) in California that maintains paleontological collections for archival storage and/or display. The transfer shall include copies of relevant field notes, maps, stratigraphic sections, and photographs.	
	D. The Qualified Paleontologist shall prepare a final Paleontological Resources Mitigation Report summarizing the field and laboratory methods used, the stratigraphic units inspected, the types of fossils recovered, and the significance of the curated collection.	
	E. SSubmit two hard copies of the final Paleontological Resources Mitigation Report to the Director of PDS for final approval of the mitigation, and submit an electronic copy of the report according to the County PDS Electronic Submittal Format Guidelines. ubmit two hard copies of the final Paleontological Resources Mitigation Report to the Director of DPLU for final approval of the mitigation, and submit an electronic copy of the	
	report according to the County DPLU's Electronic Submittal Format Guidelines.	

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CR-5 Contribution to cumulative	M-CR-1 and M-CR-2 See Above.	Less than
archaeological resources (prehistoric		significant
sites) impacts within the Project vicinity.		T 4
CR-6 Contribution to paleontological	M-CR-4 See Above.	Less than
resources impacts within the Project		significant
vicinity.	2.5 Geology and Soils	
	2.5.5.1 Unstable Slopes	
CE 1 Detential for unstable slopes	M-GE-1a Otay Lakes Road, Widening &	Less than
GE-1 Potential for unstable slopes.	Realignment (Appendix C-8): Excavations of cut	Significant
	slopes shall be observed during grading by an	Significant
	engineering geologist to evaluate whether the soil	
	and geologic conditions differ significantly from	
	those expected. Cut slopes that expose shared	
	claystone bedding may require slope stabilization	
	consisting of stability fills. These stabilization	
	measures shall be implemented if determined	
	necessary by the engineering geologist. Excavations	
	of cut slopes shall be observed during grading by an	
	engineering geologist to evaluate whether the soil	
	and geologic conditions differ significantly from	
	those expected. Cut slopes that expose shared	
	claystone bedding may require slope stabilization	
	consisting of stability fills.	
	M-GE-1b Area A and B, Tentative Map	
	(Appendices C-6 and 7): Because of the potential	
	presence of adverse geologic structures, the geologic	
	structure of permanent cut slopes composed of Otay	
	Formation, Fanglomerate materials, or metavolcanic	
	rock should be analyzed in detail by an engineering	
	geologist during grading operations. Grading of cut	
	and fill slopes and intermediate terrace benching	
	shall be designed in accordance with the	
	requirements of the local building codes and the	
	2010 California Building Code (CBC). Additional	
	recommendations for slope stabilization may be	
	necessary if adverse geologic structure is	
	encountered. Mitigation of unstable cut slopes can	
	be achieved by the use of drained stability fills. In	
	addition, cut slopes exposing cohesionless surficial	
	deposits or rock slopes with unfavorable geologic	
	structure may require stability fills. In general, the Typical Stability Fill Detail presented in Figure 10	
	(Appendices C-6 and 7) should be used for design	
	and construction of stability fills, where required.	
	The backcut for stability fills should commence at	
	least 10 feet from the top of the proposed finished-	

Table S.1 Summary of Significant Effects and Mitigation Measures

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SIGNIFICANT IMPACTS M	graded slope and should extend at least 3 feet into formational materials. For slopes that exceed 30 feet in height, the inclination of the backcut may be flattened as determined by the engineering geologist during grading operations. M-GE-1c Area A and B Tentative Map (Appendix C-6 and C-7): Because of the potential presence of adverse geologic structures, the geologic structure of permanent cut slopes composed of Metavolcanic Rock should be analyzed in detail by an engineering geologist during the grading operations. The use of drained stability fills and rock slope stabilization measures such as rock bolting, or rockfall protection systems shall be implemented if adverse geologic	FICANT
	structure is encountered. 2.5.5.2 Rock Fall Hazards	
GE-2 Potential for rock fall hazards on cut and natural slopes.	M-GE-2a Otay Lakes Road, Widening & Realignment (Appendix C-8): Mitigation measures will be required along the eastern portion of the roadway due to the steepness of the natural slopes and boulder outcrops above the proposed cut slope. The areas of proposed rock fall mitigation are shown on Figures 2.5-2A and B. The mitigation shall consist of the construction of a rock fall debris fence or other acceptable catchment device at the toe of the proposed cut slope. The hard rock slopes should be evaluated by an engineering geologist during site development and final locations of the debris fence or alternative method shall be provided at that time. M-GE-2b Area A and Area B, Tentative Map (Appendices C-6 and 7): Mitigation shall consist of the construction of rock fall debris fences or other acceptable catchment devices at the toe of proposed slopes or at the edge of daylight cut or fill areas. The area of proposed rock fall mitigation for Area A is shown on Figure 2.5-2A and Area B on Figure 2.5-2B. Area A consists of the northern-most section of proposed residential development, east of Upper Otay Lake Reservoir and the northern section of Lower Otay Lake Reservoir. Area B encompasses the eastern-most section of proposed residential development and resort. The hard rock slopes shall be evaluated by an engineering geologist during site development and final locations of the debris fences	Less than significant

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Description of Impact	Mitigation	Effectiveness
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SIGNIFICANT IMPACTS I	M-GE-2c Area A and Area B, Tentative Map (Appendices C-6 and 7): Hard rock slopes shall be analyzed in detail by an engineering geologist during the grading operations. In areas where loose or potentially hazardous rock is encountered during grading, the loose material shall be scaled off the slope face to mitigate the hazard. If adverse geologic structures are encountered during grading, rock slope stabilization measures such as rock bolting, or rockfall protection systems may be necessary. M-GE-2d-When all measures to mitigate rock fall hazards have been provided, a professional opinion from an engineering geologist shall be provided that indicates that the potential risk for rockfall hazards to impact the proposed development would be less than significant with the mitigation measures that were implemented. At the time of final design the geotechnical engineer shall certify that all mitigation measures provided to reduce the level of significance of rock fall hazards have been implemented. At the time of final design the geotechnical engineer shall	ICANI
	time of final design the geotechnical engineer shall certify that all mitigation measures provided reduce the level of significance of rock fall hazards have been implemented. It should also be stated that with mitigation measures incorporated, the proposed development is considered safe for human occupancy.	
2.6	Hazards and Hazardous Materials	
2000	2.6.2.6 Exposure to Vectors	
HZ-1 Proposed storm water retention basins may cause an increased human exposure to health vectors such as mosquitoes.	M-HZ-1a Project grading and improvements plans shall be reviewed by the Director of Public Works to determine that water quality basins are designed to drain within 72 hours and include a mechanism to open a flap gate or similar manual device if the drain time becomes too long. Manual drainage shall be conducted if water is held beyond 72 hours. Routine and semi-annual inspections shall include modification of orifice drain holes, if needed, to provide for optimum performance and suitable drain time.	Less than significant
	M-HZ-1b The Director of Public Works shall determine the design of the water quality basins include rip-rap fields at inlet scour-protection points to be self-draining concurrent with the processing of grading and improvement plans.	

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	M-HZ-1c Routine and semi-annual water quality basin inspections to the satisfaction of the Director of Public Works shall include removal of accumulated trash and debris that may capture and hold rainwater or runoff, or that accumulates around the outlet riser pipe or discharge orifice; repair of erosion or low-lying areas where ponding of water develops; identification and elimination of possible vector harborage or burrowing rodent activity; inspection for sufficient vegetation coverage for basin side slopes and floor; reduction of vegetation height to minimize insect harborage, with the height of ground cover grasses reduced to a maximum height of 6 inches; investigation and elimination or minimization of upstream dry season flow sources if dry season flows are persistent and lead to constant ponding; and notification of San Diego County	
	Vector Control if sources are from off-site properties.	
	• •	
272	2.7 Noise	
N-1 Traffic noise resulting in exposure	2 Project-Generated Airborne Noise M-N-1a The Project proponent applicants shall	Less than
of sensitive receptors within the Project site to exterior noise levels in excess of 60 dB CNEL, and interior noise levels in excess of 45 dBA CNEL.	prepare a noise protection easement for those lots identified in Table 2.7-7 of the project EIR. The noise protection easement language shall contain a restriction stating that the structure and the outdoor activity area will be placed such that a noise barrier will complement the residence's architecture, reduce noise levels at outdoor activity areas to within acceptable standards, and will not incorporate a solid (opaque) wall in excess of 10 feet in height. M-N-1b Concurrent with approval of the Final Map, the Project proponent shall dedicate to the County a noise protection easement on each of the lots identified in Table 2.7-76 for the receptor locations shown in Figures 2.7-3, 2.7-4, and 2.7-5 of the Project EIR. These easements are for the protection of noise-sensitive locations from excessive traffic noise. The noise protection easements shall be shown on the Final Map(s).	significant
	M-N-1c For any lot shown to be exposed to noise levels exceeding 60 dBA CNEL, the noise protection easement shall require that, prior to approval of the building permit or other development approval, an acoustical study be prepared based on proposed noise barrier placement and housing construction to	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
SIGNIFICANT IMPACTS N	MITIGATED TO A LEVEL OF LESS THAN SIGNII	FICANT
	demonstrate and ensure that interior noise levels are below 45 dBA CNEL.	
	M-N-1d The Project proponent shall construct a noise barrier at the top of the slope and at the back of yards for any NSLU that is exposed to a CNEL greater than 60 dBA, as shown in Table 2.7-7 and Figures 2.7-3, 2.7-4, and 2.7-5 of the Project EIR. The barrier shall be the height specified in Table 2.7-7. Barriers may be constructed of masonry, wood, and/or transparent materials, such as glass or Lucite. Earthen berms or a combination of berms and walls could also be used to provide noise attenuation.	
	M-N-1e Noise barriers, as described in M-N-1d, would not reduce noise levels to second-story elevations due to their lesser barrier heights relative to two-story structures. Where two-story homes are to be located where traffic noise levels would meet or exceed 60 dBA CNEL without abatement (see Table 2.7-76 of the Project EIR), the noise protection easement required by mitigation measure M-N-1 shall specify that the applicant for a building permit or other development approval must have to demonstrate that interior noise levels due to exterior noise sources would not exceed 45 dBA CNEL prior to approval of the building permit or other development approval. In these cases, it is anticipated that the typical method of compliance would be to provide the homes with air conditioning or equivalent forced air circulation to allow occupancy with closed windows, which, for most residential construction, would provide sufficient exterior-to-interior noise reduction.	
N-2 Noise generated by on-site HVAC and emergency generators.	M-N-2 Prior to Site Plan approval of proposed land uses within the mixed-use, resort, public safety, or single family residential sites, the applicant or designee(s) shall prepare acoustical studies of	Less than significant
	proposed mechanical equipment, which shall identify all noise-generating equipment (including emergency generators and generators associated with the proposed sewer pump stations), predict property line noise levels from all identified equipment, and recommend mitigation to be implemented (e.g., enclosures, barriers, site orientation) as necessary to comply with the County Noise Ordinance, Section 36.404.	

Table S.1 Summary of Significant Effects and Mitigation Measures

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N-3 Noise generated by other on-site land use activities (e.g., other stationary sources) associated with the proposed Project could exceed the Sound Level Limits of Section 36.404 of the County Noise Ordinance.	M-N-3 Prior to the issuance of a building permit for commercial land uses containing loading docks, delivery areas, and parking lots, the applicant, or its designee, will prepare an acoustical study(s) of proposed commercial land use site plans, which will identify all noise-generating areas and associated equipment, predict noise levels at property lines from all identified areas, and recommend mitigation to be implemented (e.g., enclosures, barriers, site orientation, reduction of parking stalls), as necessary, to comply with the County Noise	Less than significant
	Ordinance Section 36.404.	
N-4 Noise generated by construction activities associated with the proposed Project, including rock crushing and drilling could exceed the construction hours of Section 36.408 and the construction Sound Level Limits of Section 36.409 of the County Noise Ordinance.	 M-N-4 To reduce impacts associated with air blast over-pressure and rock drilling and crushing generated by Project-related grading activities, Project applicant(s) of all phases of Project development shall conform to the following requirements, which shall be prominently noted on grading plans: All blasting shall be performed by a blast contractor and blasting personnel licensed to operate in San Diego County. Each blast shall be monitored and recorded with an air blast over-pressure monitor and groundborne vibration accelerometer approved by the County that is located outside the closest residence to the blast. A blasting plan, including estimates of the air blast over-pressure level and groundborne vibration at the residence closest to the blast, shall be submitted to the County for review prior to the first blast. Blasting shall not commence until the County has approved the blast plan. Blasting shall not exceed 0.1 in/sec peak particle velocity (PPV) at the nearest occupied residence in accordance with the County's Noise Guidelines. Blasting shall not be conducted within 1,000 feet of on- or off-site sensitive receptors unless the blasting study concludes that a distance less than 1,000 feet is within an acceptable noise level. 	Less than significant

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
SIGNIFICANT IMPACTS N	MITIGATED TO A LEVEL OF LESS THAN SIGNII	FICANT
	o All rock drilling and crushing activities shall be located a minimum distance of 800 feet from the nearest property line where an occupied structure is located and shall comply with County noise standards pursuant to County Code Noise Ordinance Section 36.404. The 800-foot setback distance may be reduced if a noise study is conducted for rock processing activities and noise levels of such activities would be within acceptable County limits at the reduced distances as determined by the noise study.	
	All rock crushing activities shall be located a minimum distance of 350 feet from the nearest property line where an occupied structure is located and shall comply with County noise standards pursuant to County Code Noise Ordinance Section 36.404. The 350-foot setback distance may be reduced if a noise study is conducted for rock processing activities and noise levels of such activities would be within acceptable County limits at the reduced distances as determined by the noise study.	
	2.7.2.5 Groundborne Vibration	
N-5 Impulsive noise from explosives blasting or on-site rock-crushing and drilling activities resulting in exposure of a noise-sensitive land use to noise impacts in excess of County standards.	M-N-5 To reduce impulse noise impacts associated with air blast over-pressure and rock drilling and crushing noise generated by Project-related grading activities, Project applicant(s) of all phases of Project development shall conform to the following requirements, which shall be prominently noted on grading plans:	Less than significant
	 All blasting shall be performed by a blast contractor and blasting personnel licensed to operate in San Diego County. 	
	 Each blast shall be monitored and recorded with an air blast over-pressure monitor and groundborne vibration accelerometer approved by the County that is located outside the closest residence to the blast. A blasting plan, including estimates of the air blast over-pressure level and groundborne vibration at the residence closest to the blast, shall be submitted to the County for review prior to the first 	

Impact No. and		Conclusion and Mitigation
Description of Impact	Mitigation	Effectiveness
SIGNIFICANT IMPACTS M	IITIGATED TO A LEVEL OF LESS THAN SIGNII	FICANT
	blast. Blasting shall not commence until the County has approved the blast plan.	
	Blasting shall not exceed 0.1 in/sec peak particle velocity (PPV) at the nearest occupied residence in accordance with the County's Noise Guidelines.	
	• Blasting shall not be conducted within 1,000 feet of on- or off-site sensitive receptors unless the blasting study concludes that a distance less than 1,000 feet is within an acceptable noise level.	
	AAll rock drilling activities shall be located a minimum distance of 800 feet from the nearest property line where an occupied structure is located and shall comply with County noise standards pursuant to County Code Noise Ordinance Section 36.404. The 800-foot setback distance may be reduced if a noise study is conducted for rock processing activities and noise levels of such activities would be within acceptable County limits at the reduced distances as determined by the noise study. □ Il rock drilling activities shall be located a minimum distance of 800 350 feet from the	
	nearest property line where an occupied structure is located and shall comply with County noise standards pursuant to County Code Noise Ordinance Section 36.404. The 800350 foot setback distance may be reduced if a noise study is conducted for rock processing activities and noise levels of such activities would be within acceptable County limits at the reduced distances as determined by the noise study.	
	AAll rock crushing activities shall be located a minimum distance of 350 feet from the nearest property line where an occupied structure is located and shall comply with County noise standards pursuant to County Code Noise Ordinance Section 36.404. The 350-foot setback distance may be reduced if a noise study is conducted for rock processing activities and noise levels of such activities would be within acceptable County limits at the	

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness	
SIGNIFICANT IMPACTS M	IITIGATED TO A LEVEL OF LESS THAN SIGNIF	ICANT	
N-6 Groundborne vibration on-site from	reduced distances as determined by the noise study. It rock crushing activities shall be located a minimum distance of 800 feet from the nearest property line where an occupied structure is located and shall comply with County noise standards pursuant to County Code Noise Ordinance Section 36.404. The 800 foot setback distance may be reduced if a noise study is conducted for rock processing activities and noise levels of such activities would be within acceptable County limits at the reduced distances as determined by the noise study. M-N-6 To reduce impacts associated with	Less than	
construction equipment activities (site grading and truck transport), rock blasting, or rock-breaking activities could resulting in exposure of noisesensitive land uses to significant vibrations or groundborne noise impacts in excess of the County guidelines.	groundborne vibration generated by Project-related construction activities, the applicant(s) of all Project phases shall conform to the following requirements, which shall be prominently noted on grading plans: • Heavy construction equipment shall not be operated within 200 feet of any residential structure. • Rock blasting shall not be performed within 1,000 feet of a residential structure. • Blasting shall not exceed 0.1 in/sec peak particle velocity (PPV) at the nearest occupied residence in accordance with the Country's Noise Guidelines. • A vibration analysis assessing the proposed blasting and materials handling associated with proposed project shall be submitted to the County for review prior to the first blast. Blasting shall not commence until the County has approved the plan.	significant	
2.9 Transportation and Traffic			
	2.9.3.2 Existing Plus Project Phase I		
TR-1 Otay Lakes Road, between Wueste Rd and the City of Chula Vista/County boundary (LOS F, City of CV) – Proposed Phase I project trips would comprise 73.8% (more than 5%) of the total segment volume, and would also add 8,230 ADT (more than 800 ADT) to this roadway segment.	M-TR-1 Prior to recordation of the first final map, the Project applicant shall enter into an agreement with the City of Chula Vista to secure and construct, or cause to be constructed, the widening of Otay Lakes Road between Wueste Road and the City/County Boundary from two lanes to four lanes (4-Lane Major with Raised Median), such that the improvements are operational prior to construction	Less than significant	

Table S.1 Summary of Significant Effects and Mitigation Measures

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	of the 728th EDU. A preliminary design of this	
	mitigation measure is shown in Figure 2.9-32.	
TR-2 Otay Lakes Road, between the	M-TR-2 Prior to recordation of the first final map,	Less than
City of Chula Vista/County boundary	the Project applicant shall enter into an agreement	significant
and Project Driveway #1 (LOS E,	with the County of San Diego to secure and	
County) – Proposed project would add	construct, or cause to be constructed, the widening	
more than 200 ADT to this failing 2-lane	of Otay Lakes Road between the City/County	
roadway segment.	Boundary and Project Driveway #1/Intersection #42	
	from two lanes to four lanes (4.2A Boulevard with Raised Median) such that the improvements are	
	operational prior to issuance construction of the	
	896 th EDUbuilding permit.	
TR-3 Otay Lakes Road, between Project	M-TR-3 Prior to recordation of the first final map,	Less than
Driveway #1 and Driveway #2 (LOS E,	the Project applicant shall enter into an agreement	significant
County) – Proposed project would add	with the County of San Diego to secure and	
more than 200 ADT to this failing 2-lane	construct, or cause to be constructed, the widening	
roadway segment.	of Otay Lakes Road between Project Driveway	
	#1/Intersection #42 and Driveway #2 from two lanes	
	to four lanes (4.2A Boulevard with Raised Median)	
	such that the improvements are operational prior to issuance construction of the 896th EDUbuilding	
	permit.	
2.9	.3.3 Existing Plus Project Buildout	
TR-4 The unsignalized Otay Lakes	M-TR-4 Prior to recordation of the first final map,	Less than
Road/Wueste Road intersection (LOS E,	the Project applicant shall enter into an agreement	significant
City of Chula Vista) - With the addition	with the City of Chula Vista to secure and construct,	
of Project traffic, this intersection (#20)	or cause to be constructed, a traffic signal at the	
would operate at unacceptable LOS E	intersection of Otay Lakes Road and Wueste Road	
during the PM peak hour and the buildout Project traffic would comprise	such that the improvements are operational prior to the construction of the 1,500 th EDU.	
more than 5 percent of the total entering	the construction of the 1,500 EDC.	
volumes.		
TR-5 Otay Lakes Road, between Lake	M-TR-5 Prior to recordation of the first final map,	Less than
Crest Dr and Wueste Rd (LOS F, City of	the Project applicant shall enter into an agreement	significant
CV) – Proposed buildout project trips	with the City of Chula Vista to secure and construct,	
would comprise 86.0% (more than 5%)	or cause to be constructed, the widening of Otay	
of the total segment volume, and would	Lakes Road between Lake Crest Drive and Wueste	
also add 16,310 ADT (more than 800	Road from two lanes to four lanes (4-Lane Major	
ADT) to this roadway segment. Additionally, the intersection of Otay	with Raised Median) such that the improvements are operational prior to construction of the 910 th EDU.	
Lakes Road / Wueste Road is projected	operational prior to construction of the 910" EDU.	
to operate at unacceptable LOS E during		
the PM peak hour.		
TR-6 Otay Lakes Road, between Wueste	M-TR-6 Prior to recordation of the first final map,	Less than
Rd and the City of Chula Vista/County	the Project applicant shall enter into an agreement	significant
boundary (LOS F, City of CV) –	with the City of Chula Vista to secure and construct,	
Proposed project trips would comprise	or cause to be constructed, the widening of Otay	
87.0% (more than 5%) of the total	Lakes Road between Wueste Road and the	

Significant impacts Significa
segment volume, and would also add 19,540 ADT (more than 800 ADT) to this roadway segment. Additionally, the intersection of Otay Lakes Road / Wueste Road is projected to operate at unacceptable LOS E during the PM peak hour. 2.10 Global Climate Change GCC-1 Prior to the application of recommended mitigation measures, the Project's GHG emissions would be potentially significant and potentially conflict with plans and policies designed to reduce GHG emissions as compared to the existing environmental setting. Significant City/County Boundary from two lanes to four lanes (4-Lane Major with Raised Median) such that the improvements are operational prior to construction of the 728th EDU. Please note that Mitigation Measure M-GCC-7 Attachment "A" and Attachment "B," as referenced in M-GCC-7 and M-GCC-8 below, are located in EIR Appendix C-29. M-GCC-1 Transportation Demand Management Strategies for Residents, Students, Resort Guests and Employees. Prior to the issuance of any grading permits, the Project applicant (or itstheir designee)
Planning & Development Services Department, demonstrate that the Project shall: (i) provide a comprehensive trails network designed to provide safe bicycle and pedestrian access between the various development areas within the site and various recreational trails and multi-modal facilities accessing the site; (ii) provide bicycle racks along main travel corridors, adjacent to commercial development areas, and at public parks and open spaces; and, (iii) implement traffic calming features throughout the roadway network on the Project site to reduce motor vehicle speed and encourage walking and biking. Prior to the issuance of any residential building permits, the Project Applicant (or itstheir designee) shall, to the satisfaction of San Diego County Planning & Development Services Department, demonstrate that the Project shall: (i) provide to residents information for residents regarding transit

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	Prior to the issuance of any residential building	
	permits, the Project Applicant (or itstheir designee)	
	shall demonstrate, to the satisfaction of San Diego County Planning & Development Services	
	Department, that the Project shall establish a School	
	Pool match program to help parents transport	
	students to off-site public or private schools, and	
	shall implement a walking school bus program for	
	elementary school students traveling to the on-site	
	elementary school.	
	elementary school.	
	Prior to the issuance of any residential and	
	non-residential building permits, the Project	
	Applicant (or its their designee) shall demonstrate, to	
	the satisfaction of San Diego County Planning &	
	Development Services Department, that the Project	
	shall provide and promote information regarding	
	SANDAG's iCommute program for commuters and	
	on-site businesses.	
	Prior to issuance of any resort-related building	
	permits, the Project Applicant (or itstheir designee)	
	shall demonstrate, to the satisfaction of the San	
	Diego County Planning & Development Services	
	Department, that the Project's resort operator shall	
	implement a bike-sharing program for resort guests.	
	M-GCC-2 High-Efficiency Lighting in Multi-	
	Family Homes and Non-Residential Buildings	
	Prior to the issuance of building permits for multi-	
	family residences and non-residential buildings, the	
	Project Applicant (or theirits designee) shall submit	
	pertinent building plans and related application	
	materials that demonstrate, to the satisfaction of San	
	Diego County Planning & Development Services Department that the Project shall utilize high	
	Department, that the Project shall utilize high-	
	efficiency (light emitting diode [LED] or equivalent) interior lighting in the multi-family residences and	
	non-residential buildings that utilizes 15 percent less	
	energy than otherwise permitted by the 2019	
	Building Energy Efficiency Standards.	
	Deficing Divisy Efficiency Standards.	
	M-GCC-3 EnergyStar Appliances in Multi-	
	Family Homes and Non-Residential Buildings	
	Prior to the issuance of building permits for multi-	
	family residences and non-residential buildings, the	
	Project Applicant (or their designee) shall submit	
	pertinent building plans and related application	

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	materials that demonstrate, to the satisfaction of San Diego County Planning & Development Services	
	Department, that the Project shall install EnergyStar	
	appliances in the multi-family residences and non-	
	residential buildings. The required EnergyStar	
	appliances include clothes washers, dishwashers,	
	fans, and refrigerators.	
	M-GCC-4 Zero Net Energy Single-Family Homes	
	Prior to the issuance of building permits for single-	
	family residences, the Project applicant (or itstheir	
	designee) shall submit a Zero Net Energy	
	Confirmation Report (ZNE Report) prepared by a qualified building energy efficiency and design	
	consultant to San Diego County Planning &	
	Development Services Department for review and	
	approval. The ZNE Report shall demonstrate that the	
	single-family residential development within the	
	Project site subject to application of Title 24, Part 6,	
	of the California Code of Regulations has been	
	designed and shall be constructed to achieve ZNE, as	
	defined by the California Energy Commission, or	
	otherwise achieve an equivalent level of energy	
	efficiency, renewable energy generation, or greenhouse gas emissions savings. As part of the	
	ZNE design, all single-family residences shall be	
	designed to eliminate the utilization of natural gas as	
	an energy source for the building envelope,	
	including with respect to the heating, ventilation and	
	air conditioning (HVAC) systems and as to	
	appliances. This also shall require that no natural gas	
	<u>fireplaces</u> be installed in single-family residences.	
	A ZDUD D	
	A ZNE Report may, but is not required to:	
	Evaluate multiple single-family residences.	
	Rely upon aggregated or community-based	
	strategies to support its determination that the	
	subject buildings are designed to achieve ZNE.	
	For example, shortfalls in renewable energy	
	generation for one or more buildings may be	
	offset with excess renewable generation from	
	one or more other buildings, or off-site	
	renewable energy generation. As such, a ZNE Report could determine a building is designed to	
	achieve ZNE based on aggregated or	
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	on its own may not be designed to achieve ZNE.	
	Make reasonable assumptions about the	
	estimated electricity and natural gas loads and	
	energy efficiencies of the subject buildings.	
	Additionally, all single-family residences shall be	
	pre-wired to facilitate the subsequent installation of	
	battery-based energy storage systems by homeowners.	
	nomeowners.	
	M-GCC-5 Beyond Code Efficiencies in Multi-	
	Family Homes and Non-Residential Buildings Prior to the issuance of building permits for multi-	
	family residences and non-residential buildings, the	
	Project applicant (or itstheir designee) shall submit	
	pertinent building plans and related application	
	materials that demonstrate, to the satisfaction of San	
	<u>Diego County Planning & Development Services</u> <u>Department, that the Project's multi-family</u>	
	residences and non-residential buildings are	
	designed to improve building energy efficiency by	
	10 percent over the 2019 Building Energy Efficiency	
	Standards. As part of this demonstration, the building plans and related application materials shall	
	confirm that attached multi-family residences will be	
	designed and constructed without wood-burning or	
	natural gas-burning fireplaces. Additionally, all	
	multi-family residences shall be pre-wired to	
	facilitate the subsequent installation of battery-based energy storage systems by homeowners.	
	energy storage systems by nonneowners.	
	M-GCC-6 Zero Emission Vehicle Charging	
	Infrastructure Prior to the issuance of residential	
	building permits, the Project Applicant (or their its designee) shall submit pertinent building plans	
	and related application materials that demonstrate, to	
	the satisfaction of San Diego County Planning &	
	Development Services Department, the installation	
	of: (a) dedicated 208/240 branch circuits in each garage of every residential unit, and (b) one Level 2	
	electric vehicle (EV) charging station in the garage	
	in half of all residential units.	
	Prior to the issuance of non-residential building permits, the Project applicant (or theirits designee)	
	shall submit pertinent building plans and related	
	application materials that demonstrate, to the	

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	satisfaction of San Diego County Planning & Development Services Department, the installation	
	of an additional ten (10) Level 2 EV charging	
	stations within the non-residential parking areas	
	located on the Project site, as well as an additional	
	ten (10) Level 2 EV charging stations for vehicles	
	utilizing public street parking spaces on street blocks	
	located adjacent to non-residential development	
	areas.	
	1.000.00	
	M-GCC-7 Carbon Offsets – Construction	
	Emissions. In addition to implementing all feasible construction-related and land use design practices and	
	related mitigation measures (see mitigation measures	
	M-AQ-1a, M-AQ-1c and M-AQ-1d) for the reduction	
	of construction greenhouse gas (GHG) emissions, the	
	Project Applicants (defined to be Baldwin & Sons,	
	LLC and Moller Lakes Investment, LLC, or their	
	designee) shall retire carbon offsets in a quantity	
	sufficient to offset 100 percent of the Project's	
	construction emissions (including sequestration loss	
	from vegetation removal) consistent with the	
	performance standards and requirements set forth	
	below. Specifically, prior to the County of San	
	Diego's (County) issuance of the Project's first grading permit, the Project Applicants shall retire	
	carbon offsets equaling 38,476 metric tons of carbon	
	dioxide equivalent (MT CO ₂ e), which is the quantity	
	of construction-related emissions estimated to be	
	generated by the Project in the certified EIR.	
	Carbon Offset Standards - Eligible Registries,	
	Acceptable Protocols and Defined Terms	
	6C 1 6C 22 1 11 11 11 11 11 11 11 11 11 11 11 1	
	"Carbon offset" shall mean an instrument, credit or other certification verifying the reduction of GHG	
	emissions issued by the Climate Action Reserve, the	
	American Carbon Registry, or Verra (previously, the	
	Verified Carbon Standard). This shall include, but is	
	not limited to, an instrument, credit or other	
	certification issued by these registries for GHG	
	reduction activities within the San Diego County	
	region. The Project shall neither purchase offsets	
	from the Clean Development Mechanism (CDM)	
	registry nor purchase offsets generated under CDM	
	protocols. Further, no carbon offsets shall originate	
	from international areas, as discussed in the	
	"Locational Performance Standards" below.	

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	Qualifying carbon offsets presented for compliance with this mitigation measure may be used provided that the evidence required by the "Reporting and Enforcement Standards" below is submitted to the County demonstrating that each registry shall continue its existing practice of requiring the following for the development and approval of protocols or methodologies:	
	i) Adherence to established GHG accounting principles set forth in the International Organization for Standardization (ISO) 14064, Part 2 or the World Resources Institute/World Business Council for Sustainable Development (WRI/WBCSD) Greenhouse Gas Protocol for Project Accounting; and	
	ii) Oversight of the implementation of protocols and methodologies that define the eligibility of carbon offset projects and set forth standards for the estimation, monitoring and verification of GHG reductions achieved from such projects. The protocols and methodologies shall:	
	a. Be developed by the registries through a transparent public and expert stakeholder review process that affords an opportunity for comment and is informed by science;	
	b. Incorporate standardized offset crediting parameters that define whether and how much emissions reduction credit a carbon offset project should receive, having identified conservative project baselines and the length of the crediting period and considered potential leakage and quantification uncertainties;	
	c. Establish data collection and monitoring procedures, mechanisms to ensure permanency in reductions, and additionality and geographic boundary provisions; and,	
	d. Adhere to the principles set forth in the program manuals of each of the aforementioned registries, as such manuals are updated from time to time. The current registry documentation, copies of which are included in M-GCC-7 Attachment "A," includes the Climate Action Reserve's	

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	Reserve Offset Program Manual (November	
	2019) and Climate Forward Program	
	Manual (March 2020); the American	
	Carbon Registry's Requirements and	
	Specifications for the Quantification,	
	Monitoring, Reporting, Verification, and	
	Registration of Project-Based GHG Emissions Reductions and Removals (July	
	2019); and, Verra's VCS Standard, Program	
	Guide and Methodology Requirements	
	(September 2019). (MGCC-7	
	Attachment "A" is an attachment to this	
	mitigation measure that is part-and-parcel of	
	the mitigation measure.)	
	The County has reviewed the registry-administered	
	protocols and methodologies for the carbon offset	
	project types included in M-GCC-7 Attachment	
	"A," and has determined that such protocols and	
	methodologies – including updates to those protocols	
	and methodologies as may occur from time to time by the registries in accordance with the registry	
	documentation listed in the prior paragraph to ensure	
	the continuing efficacy of the reduction activities – are	
	eligible for use under this mitigation measure,	
	provided that any updated protocols shall be provided	
	for County review as required by the "Reporting and	
	Enforcement Standards" below prior to the County's	
	acceptance of offsets based on such updated	
	protocols. The County also has reviewed and determined that the protocols and methodologies	
	included in M-GCC-7 Attachment "A" require	
	adherence to equivalent standards for carbon offset	
	projects located both inside and outside of California.	
	Further, any carbon offset used to reduce the Project's	
	GHG emissions shall be a carbon offset that	
	represents the past or forecasted reduction or sequestration of one metric ton of carbon dioxide	
	equivalent that is "not otherwise required" (CEQA	
	Guidelines Section 15126.4(c)(3)). Each carbon offset	
	used to reduce GHG emissions shall achieve	
	additional, real, permanent, quantifiable, verifiable,	
	and enforceable reductions, which are defined for	
	purposes of this mitigation measure as follows:	
	i) "Additional" manual-th	
	i) "Additional" means that the carbon offset is not otherwise required by law or regulation, and not	
	oniei wise required by law of regulation, and not	

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	any other GHG emissions reduction that	
	otherwise would occur.	
	ii) "Real" means that the GHG reduction	
	underlying the carbon offset results from a	
	demonstrable action or set of actions, and is	
	quantified under the protocol or methodology using appropriate, accurate, and conservative	
	methodologies that account for all GHG	
	emissions sources and sinks within the	
	boundary of the applicable carbon offset project, uncertainty, and the potential for	
	activity-shifting leakage and market-shifting	
	leakage.	
	iii) "Verifiable" means that the GHG reduction	
	underlying the carbon offset is well	
	documented, transparent and set forth in a document prepared by an independent	
	verification body that is accredited through the	
	American National Standards Institute (ANSI).	
	iv) "Permanent" means that the GHG reduction	
	underlying the carbon offset is not reversible;	
	or, when GHG reduction may be reversible, that a mechanism is in place to replace any	
	reversed GHG emission reduction.	
	v) "Quantifiable" means the ability to accurately	
	measure and calculate the GHG reduction	
	relative to a project baseline in a reliable and	
	replicable manner for all GHG emission sources and sinks included within the boundary	
	of the carbon offset project, while accounting	
	for uncertainty and leakage.	
	vi) "Enforceable" means that the implementation	
	of the GHG reduction activity must represent	
	the legally binding commitment of the offset project developer to undertake and carry it out.	
	project developer to undertake and earry it out.	
	The County has reviewed and determined that the	
	protocols and methodologies included in M-GCC-7 Attachment "A" establish and require carbon offset	
	projects to comply with standards designed to	
	achieve additional, real, permanent, quantifiable,	
	verifiable and enforceable reductions. Additionally,	
	the County has reviewed and determined that the "Reporting and Enforcement Standards" below	
	ensure that the emissions reductions required by this	

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	MITIGATED TO A LEVEL OF LESS THAN SIGNI	
SIGNIFICANT IMPACTS	mitigation measure are enforceable against the Project Applicants, as the County has authority to hold the Project Applicants accountable and to take appropriate corrective action if the County determines that any carbon offsets do not comply with the requirements set forth in this mitigation measure. The above definitions are provided as criteria and performance standards associated with the use of carbon offsets. The County hereby clarifies that such criteria and performance standards are intended only to further construe the standards under CEQA for mitigation related to GHG emissions (see, e.g., State CEQA Guidelines Section 15126.4(a), (c)), and are not intended to apply or incorporate the	CANT
	requirements of any other statutory or regulatory scheme not applicable to the Project (e.g., the Capand-Trade Program). Locational Performance Standards All carbon offsets required to reduce the Project's	
	GHG emissions shall originate from the following geographic locations (in order of priority): (1) off-site, unincorporated areas of the County of San Diego; (2) off-site, incorporated areas of the County of San Diego; (3) off-site areas within the State of California; and, (4) off-site areas within the United States. No carbon offsets shall originate from off-site, international areas. As listed, geographic priorities would focus first on local reduction options to ensure that reduction efforts achieved	
	locally would provide cross-over, co-benefits to other environmental resource areas. For purposes of implementing this mitigation measure, the County shall require the carbon offsets	
	to adhere to the following locational performance standards in order to reduce the Project's construction and vegetation removal GHG emissions:	
	i) The Project shall use all available carbon offsets within the County of San Diego (the first priority is within unincorporated areas of the County and the second priority is within incorporated areas of the County).	

Impact No. and		Conclusion and Mitigation
Description of Impact	Mitigation	Effectiveness
SIGNIFICANT IMPACTS M	IITIGATED TO A LEVEL OF LESS THAN SIGNII	FICANT
	"Available," for purposes of this subdivision.	
	means that the Project Applicants provide objective, verifiable evidence to the County	
	documenting that such carbon offsets are	
	available for retirement from carbon offset	
	projects within the subject geography no later	
	than at the time of application for grading	
	permit issuance. The objective, verifiable	
	evidence to be provided includes a market	
	survey report that shall comply with the	
	following content requirements:	
	a. Preparation by a carbon offset broker with	
	a minimum of 10 years of experience	
	assisting with transactions in emissions	
	markets;	
	b. Identification of the carbon registry listings	
	reviewed for carbon offset availability,	
	including the related date of inquiry; and,	
	c. Identification of the geographic attributes	
	of carbon offsets that are offered for sale	
	and available for retirement.	
	ii) In the event that a sufficient quantity of carbon	
	offsets are not "available" in the County of	
	San Diego, the Project shall obtain the	
	remaining carbon offsets needed from within	
	the State of California (third priority). For the definition of "available," see subdivision i)	
	immediately above.	
	iii) In the event that a sufficient quantity of carbon offsets are not "available" in the County of	
	San Diego or State of California, the Project	
	shall obtain the remaining carbon offsets	
	needed from within the United States (fourth	
	priority). For the definition of "available," see	
	subdivision i) immediately above.	
	D 4 17 4 18 4 18 4 18 4 18 4 18 4 18 4 18	
	Reporting and Enforcement Standards	
	Over the course of the construction period and prior	
	to issuance of requested grading permits, the Project	
	Applicants shall submit reports to the County that	
	identify the quantity of emission reductions required	
	by this mitigation measure, as well as the carbon	
	offsets to be retired to achieve compliance with this	
	measure. For purposes of demonstrating that each	

		Conclusion and
Impact No. and		Mitigation
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SIGNIFICANT IMPACTS N	MITIGATED TO A LEVEL OF LESS THAN SIGNIF	FICANT
	offset is additional, real, permanent, quantifiable,	
	verifiable and enforceable, the reports shall include:	
	(i) the applicable protocol(s) and methodologies	
	associated with the carbon offsets, (ii) the third-party	
	verification report(s) and statement(s) affiliated with	
	the carbon offset projects, (iii) the unique serial	
	numbers assigned by the registry(ies) to the carbon	
	offsets to be retired, which serves as evidence that the	
	registry has determined the carbon offset project to	
	have been implemented in accordance with the	
	applicable protocol or methodology and ensures that	
	the offsets cannot be further used in any manner, and	
	(iv) the locational attributes of the carbon offsets.	
	The reports also shall append the market survey report	
	described in the "Locational Performance Standards"	
	provision above.	
	If the County determines that the Project's carbon	
	offsets do meet the requirements of this mitigation	
	measure, the offsets can be used to reduce Project	
	GHG emissions and Project permits shall be issued.	
	Upon an affirmative finding from the County that the	
	Project's carbon offsets are eligible for use under this	
	measure, and prior to permit issuance, the County	
	shall confirm that the Project Applicants have	
	included, in their carbon offset purchase agreement(s),	
	a requirement that the carbon offset seller(s) provide	
	the County with reasonable notice of any emissions	
	reversal from the carbon offsets that are the subject of	
	the transaction(s). The County also shall confirm that	
	the Project Applicants' purchase agreement(s)	
	requires the seller(s) to provide the County with	
	information and evidence regarding the steps taken by	
	the applicable registry(ies) and carbon offset project	
	developer(s) to rectify any reversal in accordance	
	with applicable program manuals, protocols and methodologies, and provide supporting	
	documentation from the registry(ies) to substantiate	
	the correction of the reversal. In the event that the	
	County concludes an offset reversal has not been	
	sufficiently corrected within a reasonable period of	
	time based on the nature of the reversal and the	
	standards set forth in the applicable program	
	manuals, protocols and methodologies, the County	
	shall require an equivalent quantity of substitute	
	GHG reductions are achieved. Methods to achieve	
	the reductions could include requiring the Project	
	Applicants to secure and retire substitute carbon	

Mitigation Effectives MITIGATED TO A LEVEL OF LESS THAN SIGNIFICANT offsets meeting the requirements of this mitigation measure in a quantity equivalent to those reversed. (Please see M-GCC-7 Attachment "B," which includes a process timeline and associated flow chart for the implementation and administration of the mitigation measure's requirements. M-GCC-7
offsets meeting the requirements of this mitigation measure in a quantity equivalent to those reversed. (Please see M-GCC-7 Attachment "B," which includes a process timeline and associated flow chart for the implementation and administration of the
measure in a quantity equivalent to those reversed. (Please see M-GCC-7 Attachment "B," which includes a process timeline and associated flow chart for the implementation and administration of the
(Please see M-GCC-7 Attachment "B," which includes a process timeline and associated flow chart for the implementation and administration of the
includes a process timeline and associated flow chart for the implementation and administration of the
for the implementation and administration of the
mitigation measure's requirements. M-GCC-7
A 1
Attachment "B" is an attachment to this mitigation
measure that is part-and-parcel of the mitigation
measure.)
If the Country determines that the Duniont's control
If the County determines that the Project's carbon offsets do not meet the requirements of this mitigation
measure, the offsets cannot be used to reduce Project
GHG emissions and Project permits shall not be
issued. Additionally, the County may issue a notice of
non-consistency and cease permitting activities in the
event that the County determines the carbon offsets
provided to reduce Project GHG emissions are not
compliant with the aforementioned standards. In the
event of such an occurrence, Project permitting
activities shall not resume until the Project Applicants
have demonstrated that the previously provided
carbon offsets are compliant with the standards herein
or have provided substitute carbon offsets achieving
the standards of this mitigation measure in the
quantity needed to achieve the required emission
reduction.
M-GCC-7 Carbon Offsets Construction
Emissions As to construction emissions, the Project
applicant (or their its designee) shall provide
purchase and retire carbon offsets in a quantity
sufficient to offset 100 percent of the Project's
construction emissions (including sequestration loss
from vegetation removal) consistent with the
performance standards and requirements set forth
below.
First, "carbon offset" shall mean an instrument,
eredit or other certification verifying the reduction of
GHG emissions issued by any of the following:
(i) the Climate Action Reserve, the American
Carbon Registry, and Verra (previously, the Verified
Carbon Standard); or, (ii) any registry approved by
the California Air Resources Board to act as a
registry under the State's cap-and-trade program.
i region, show his state bear and hidd program.

Project's GHG em that represents the sequestration of 1- required" (CEQA- §15126.4Septembe	n offset utilized to reduce the hissions shall be a carbon offset past or forecasted reduction or MT Co ₂ e that is "not otherwise
SIGNIFICANT IMPACTS MITIGATED TO A Second, any carbo Project's GHG em that represents the sequestration of 1 required" (CEQA- §15126.4Septembe	Mitigation LEVEL OF LESS THAN SIGNIFICANT n offset utilized to reduce the hissions shall be a carbon offset past or forecasted reduction or MT Co ₂ e that is "not otherwise Guidelines er(3)). By requiring that the rwise required," the offset shall fluction or sequestration GHG emission reduction
SIGNIFICANT IMPACTS MITIGATED TO A Second, any carbo Project's GHG em that represents the sequestration of 1 required" (CEQA- §15126.4Septembe	LEVEL OF LESS THAN SIGNIFICANT In offset utilized to reduce the hissions shall be a carbon offset past or forecasted reduction or MT Co ₂ e that is "not otherwise Guidelines er(3)). By requiring that the rwise required," the offset shall fluction or sequestration GHG emission reduction
Second, any carbo Project's GHG em that represents the sequestration of 1 required" (CEQA- §15126.4Septembe	n offset utilized to reduce the hissions shall be a carbon offset past or forecasted reduction or MT Co ₂ e that is "not otherwise Guidelines er(3)). By requiring that the rwise required," the offset shall fluction or sequestration GHG emission reduction
Project's GHG em that represents the sequestration of 1- required" (CEQA- §15126.4Septembe	past or forecasted reduction or MT Co ₂ e that is "not otherwise Guidelines er(3)). By requiring that the rwise required," the offset shall luction or sequestration GHG emission reduction
that represents the sequestration of 1 required" (CEQA §15126.4September	past or forecasted reduction or MT Co ₂ e that is "not otherwise Guidelines er(3)). By requiring that the required," the offset shall luction or sequestration GHG emission reduction
sequestration of 1 required" (CEQA state of 1 state of	MT Co ₂ e that is "not otherwise Guidelines er(3))By requiring that the rwise required," the offset shall fluction or sequestration GHG emission reduction
required" (CEQA - §15126.4September	Guidelines er(3))By requiring that the rwise required," the offset shall fluction or sequestration GHG emission reduction
§15126.4 September	er (3)). By requiring that the rwise required," the offset shall luction or sequestration GHG emission reduction
	wise required," the offset shall luction or sequestration GHG emission reduction
<u>onset is</u> not otner	luction or sequestration GHG emission reduction
	GHG emission reduction
——————————————————————————————————————	
·	l by law or regulation, and any
	on reduction that otherwise
would occur (Heal	lth & Saf. Code, §38562(d)(2)).
Third, as to constr	uction and vegetation removal
	rior to the County's issuance of
	grading permit, the Project
	its designee) shall provide
	isfaction of the Director of
Planning & Develo	opment Services that the Project
	esignee) has purchased and retired
	quantity sufficient to offset 100
	struction and vegetation removal
	n estimated total of 38,476 MT
CO ₂ e) generated b	y the Project, as identified in the
, ,	EIR. In making such a
	Director of Planning &
	vices shall require the Project
-	its designee) to provide an
	lar documentation from the
selected registry(ic	es) that a sufficient quantity of
<u> </u>	eting the standards set forth in this
	n purchased and retired, thereby
demonstrating that	the necessary emission reductions
· ·	locumentation shall identify the
registry assigned s	serial number associated with each
retired carbon offs	et; the referenced serial numbers
are used by registr	ies to ensure that each metric ton
	the requirements identified in the
	l and is counted and retired only
	ntation also shall identify the
	es of the carbon offsets in order to
allow San Diego C	County Planning & Development
	ent to track and monitor the
	the geographic priority provision
set forth below	
Fourth the purch	ased carbon offsets used to reduce
•	vegetation removal GHG

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	emissions shall achieve real, permanent,	
	quantifiable, verifiable, and enforceable reductions (Health & Saf. Code, §38562(d)(1)).	
	(Health & Sal. Code, \$38302(d)(1)).	
	Fifth, all carbon offsets required to reduce the	
	Project's construction and vegetation removal	
	emissions shall be associated with reduction	
	activities that are geographically prioritized	
	according to the following locational attributes:	
	(1) off site, unincorporated areas of the County of	
	San Diego; (2) off site, incorporated areas of the	
	County of San Diego; (3) off site areas within the	
	State of California; (4) off site areas within the	
	United States; and, (5) off site, international areas.	
	As listed, geographic priorities would focus first on	
	local reduction options (including projects and programs that would reduce GHG emissions) to	
	ensure that reduction efforts achieved locally would	
	provide cross over, co benefits to other	
	environmental resource areas.	
	The Director of Planning & Development Services	
	shall issue a written determination that offsets are	
	unavailable and/or fail to meet the feasibility	
	<u>definition and factors set forthdefined in CEQA</u>	
	Guidelines Section 15364 in a higher priority	
	geographic category before allowing the Project	
	applicant or their its designee to use offsets from	
	the next lower priority category. In making such a	
	determination, the Director of Planning & Development Services shall consider information	
	available at the time each Project related grading	
	permit request is submitted, including but not	
	limited to:	
	 The availability of <u>in County and in State</u> 	
	emission reduction opportunities, including	
	funding and partnership opportunities with the	
	County, other public agencies, or	
	environmental initiatives with demonstrated	
	integrity, where such reduction opportunities use methodologies and protocols approved by a	
	specified registry (see "First" paragraph above	
	for the definition of such registries);	
	• The geographic attributes of carbon offsets that	
	are listed for purchase and retirement;	

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	MITIGATED TO A LEVEL OF LESS THAN SIGNII	
SIGNIFICALLY IMPACTS IN	The temporal attributes of carbon offsets that	ICANI
	are listed for purchase and retirement;	
	 The pricing attributes of carbon offsets that are listed for purchase and retirement; and/or, 	
	Any other information deemed relevant to the	
	evaluation, such as periodicals and reports addressing the availability of carbon offsets.	
	Sixth, over the course of the construction period, the	
	Project applicant (or theirits designee) shall submit	
	annual reports to the San Diego County Planning &	
	Development Services Department that identify the	
	quantity of emission reductions required by this	
	mitigation measure, as well as the carbon offsets	
	retired to achieve compliance with this measure. The annual reports shall identify the locational attributes	
	of the carbon offsets in order to allow the San Diego	
	County Planning & Development Services	
	Department to track and monitor the implementation	
	of the geographic priority provision. Such tabulation	
	and tracking shall be to the satisfaction of the	
	Director of Planning & Development Services.	
	M-GCC-8 Carbon Offsets – Operational	
	Emissions In addition to implementing all feasible	
	operation-related and land use design practices and	
	related mitigation measures (see mitigation measures	
	M-GCC-1 through M-GCC-6) for the reduction of	
	operational greenhouse gas (GHG) emissions, the	
	Project Applicants (defined to be Baldwin & Sons,	
	LLC and Moller Lakes Investment, LLC, or their	
	designee) shall retire carbon offsets in a quantity	
	sufficient to offset, for a 30-year period, the	
	operational GHG emissions from that incremental	
	amount of development to net zero, consistent with the performance standards and requirements set forth	
	below.	
	OCION.	
	Because the Project will be built in phases over	
	approximately eleven years, which influences both	
	the quantity of operational GHG emissions and the	
	level of reduction required to achieve net zero GHG	
	emissions, the Project Applicants shall utilize one of	
	the two following compliance options to secure the	
	necessary carbon offsets:	
	i) Prior to the issuance of the first building	
	permit, the Project Applicants shall provide	

Table S.1 Summary of Significant Effects and Mitigation Measures

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	MITIGATED TO A LEVEL OF LESS THAN SIGNII	
	evidence to the County of San Diego Department of Planning & Development	
	Services (PDS) that carbon offsets in the amount of 28,625 metric tons of carbon dioxide equivalent (MT CO ₂ e) per year	
	multiplied by 30 years have been retired, for a total of 858,750 MT CO ₂ e, which is the quantity of operations-related emissions	
	estimated to be generated by the Project in the certified EIR.	
	ii) Prior to the issuance of each increment of building permits for the phased development of the Project, the Project Applicants shall	
	provide evidence to PDS that the amount of carbon offsets required for the increment of development being permitted for a 30-year	
	period have been retired. The application(s) for permit issuance shall include, as attachments, emissions calculation worksheets	
	that identify the emissions reduction obligation of the increment of development	
	being permitted and tracking tables that identify any previous carbon offsets retired, as well as the amount of carbon offsets	
	anticipated to be associated with the unbuilt, unpermitted portion(s) of the Project.	
	<u>Carbon Offset Standards – Eligible Registries,</u> <u>Acceptable Protocols and Defined Terms</u>	
	"Carbon offset" shall mean an instrument, credit or other certification verifying the reduction of GHG	
	emissions issued by the Climate Action Reserve, the American Carbon Registry, or Verra (previously, the Verified Carbon Standard). This shall include, but is	
	not limited to, an instrument, credit or other certification issued by these registries for GHG reduction activities within the San Diego County	
	region. The Project shall neither purchase offsets from the Clean Development Mechanism (CDM)	
	registry nor purchase offsets generated under CDM protocols. Further, no carbon offsets shall originate from international areas, as discussed in the	
	"Locational Performance Standards" below. Qualifying carbon offsets presented for compliance with this mitigation measure may be used provided	
	that the evidence required by the "Reporting and	

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Impact No. and Description of Impact	Mitigation	Mitigation Effectiveness
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	Enforcement Standards" below is submitted to the County demonstrating that each registry shall continue its existing practice of requiring the following for the development and approval of protocols or methodologies:	
	i) Adherence to established GHG accounting principles set forth in the International Organization for Standardization (ISO) 14064, Part 2 or the World Resources Institute/World Business Council for Sustainable Development (WRI/WBCSD) Greenhouse Gas Protocol for Project Accounting; and	
	ii) Oversight of the implementation of protocols and methodologies that define the eligibility of carbon offset projects and set forth standards for the estimation, monitoring and verification of GHG reductions achieved from such projects. The protocols and methodologies shall:	
	a. Be developed by the registries through a transparent public and expert stakeholder review process that affords an opportunity for comment and is informed by science;	
	b. Incorporate standardized offset crediting parameters that define whether and how much emissions reduction credit a carbon offset project should receive, having identified conservative project baselines and the length of the crediting period and considered potential leakage and quantification uncertainties:	
	c. Establish data collection and monitoring procedures, mechanisms to ensure permanency in reductions, and additionality and geographic boundary provisions; and,	
	d. Adhere to the principles set forth in the program manuals of each of the aforementioned registries, as such manuals are updated from time to time. The current registry documentation, copies of which are included in M-GCC-7 Attachment "A," includes the Climate Action Reserve's Reserve Offset Program Manual (September 2019) and Climate Forward Program Manual (September 2020); the	

Impact No. and		Conclusion and Mitigation
Description of Impact	Mitigation	Effectiveness
SIGNIFICANT IMPACTS	MITIGATED TO A LEVEL OF LESS THAN SIGNII	FICANT
	American Carbon Registry's Requirements	
	and Specifications for the Quantification,	
	Monitoring, Reporting, Verification, and	
	<u>Registration of Project-Based GHG</u> <u>Emissions Reductions and Removals</u>	
	(September 2019); and, Verra's VCS	
	Standard, Program Guide and Methodology	
	Requirements (September 2019). (M-GCC-	
	7 Attachment "A" is an attachment to this	
	mitigation measure that is part-and-parcel of	
	the mitigation measure.)	
	The County has reviewed the registry-administered	
	protocols and methodologies for the carbon offset	
	project types included in M-GCC-7 Attachment	
	"A," and has determined that such protocols and	
	methodologies – including updates to those protocols	
	and methodologies as may occur from time to time	
	by the registries in accordance with the registry	
	documentation listed in the prior paragraph to ensure the continuing efficacy of the reduction activities –	
	are eligible for use under this mitigation measure,	
	provided that any updated protocols shall be provided	
	for County review as required by the "Reporting and	
	Enforcement Standards" below prior to the County's	
	acceptance of offsets based on such updated	
	protocols. The County also has reviewed and	
	determined that the protocols and methodologies	
	included in M-GCC-7 Attachment "A" require	
	adherence to equivalent standards for carbon offset projects located both inside and outside of California.	
	projects located both hiside and outside of Camorina.	
	Further, any carbon offset used to reduce the	
	Project's GHG emissions shall be a carbon offset that	
	represents the past or forecasted reduction or	
	sequestration of one metric ton of carbon dioxide	
	equivalent that is "not otherwise required" (CEQA	
	Guidelines Section 15126.4(e)©(3)). Each carbon	
	offset used to reduce GHG emissions shall achieve additional, real, permanent, quantifiable, verifiable,	
	and enforceable reductions, which are defined for	
	purposes of this mitigation measure as follows:	
	i) "Additional" means that the carbon offset is not	
	otherwise required by law or regulation, and not	
	any other GHG emissions reduction that	
	otherwise would occur.	

		Conclusion and
Impact No. and Description of Impact	Mitigation	Mitigation Effectiveness
	ITTIGATED TO A LEVEL OF LESS THAN SIGNII	
SIGNIFICANT IMITACTS W	ii) "Real" means that the GHG reduction	MCANT
	underlying the carbon offset results from a	
	demonstrable action or set of actions, and is	
	quantified under the protocol or methodology	
	using appropriate, accurate, and conservative	
	methodologies that account for all GHG	
	emissions sources and sinks within the	
	boundary of the applicable carbon offset project, uncertainty, and the potential for	
	activity-shifting leakage and market-shifting	
	leakage.	
	iii) "Verifiable" means that the GHG reduction underlying the carbon offset is well	
	documented, transparent and set forth in a	
	document prepared by an independent	
	verification body that is accredited through the	
	American National Standards Institute (ANSI).	
	iv) "Permanent" means that the GHG reduction	
	underlying the carbon offset is not reversible;	
	or, when GHG reduction may be reversible,	
	that a mechanism is in place to replace any reversed GHG emission reduction.	
	v) "Quantifiable" means the ability to accurately	
	measure and calculate the GHG reduction relative to a project baseline in a reliable and	
	replicable manner for all GHG emission	
	sources and sinks included within the boundary	
	of the carbon offset project, while accounting	
	for uncertainty and leakage.	
	vi) "Enforceable" means that the implementation	
	of the GHG reduction activity must represent	
	the legally binding commitment of the offset	
	project developer to undertake and carry it out.	
	The County has reviewed and determined that the	
	protocols and methodologies included in M-GCC-7	
	Attachment "A" establish and require carbon offset	
	projects to comply with standards designed to	
	achieve additional, real, permanent, quantifiable, verifiable and enforceable reductions. Additionally,	
	the County has reviewed and determined that the	
	"Reporting and Enforcement Standards" below	
	ensure that the emissions reductions required by this	
	mitigation measure are enforceable against the	
	Project Applicants, as the County has authority to	
	hold the Project Applicants accountable and to take	

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	MITIGATED TO A LEVEL OF LESS THAN SIGNII	
SIGNIFICALLI IMIACIS	appropriate corrective action if the County	TOMINI
	determines that any carbon offsets do not comply	
	with the requirements set forth in this mitigation	
	measure.	
	The above definitions are provided as criteria and	
	performance standards associated with the use of	
	carbon offsets. The County hereby clarifies that such	
	criteria and performance standards are intended only	
	to further construe the standards under CEQA for	
	mitigation related to GHG emissions (see, e.g., State	
	CEQA Guidelines Section 15126.4(a), (c)), and are	
	not intended to apply or incorporate the	
	requirements of any other statutory or regulatory	
	scheme not applicable to the Project (e.g., the Cap-	
	and-Trade Program).	
	Emissions Inventory "True Up" Procedures and	
	Standards	
	As new federal, state and local regulations are	
	adopted or technological advancements occur, the	
	quantity of emission reductions needed to	
	demonstrate achievement of the net zero emissions	
	level may decrease. Therefore, the amount of carbon	
	offsets needed may be reduced if the Project	
	Applicants can demonstrate, with substantial	
	evidence, that changes in regulation or law, or other increased technological efficiencies have reduced	
	the total MT CO ₂ e emitted by the Project. As	
	described further in the following paragraph, any	
	modification to the emissions reduction value stated	
	herein shall require approval from the County's	
	Board of Supervisors, as considered pursuant to a	
	noticed public hearing process that complies with	
	applicable legal requirements, including those set	
	forth in CEQA for the post-approval modification of	
	mitigation implementation parameters.	
	Specifically, if the Project Applicants elect to	
	process a "true-up" exercise subsequent to the	
	County's certification of the Final EIR and approval	
	of the Project, the Project Applicants shall provide an	
	updated operational GHG emissions inventory for the	
	Project that includes emissions from mobile sources,	
	energy, area sources, water consumption, and solid	
	waste. Subject to the satisfaction of the Board of	
	Supervisors, these calculations shall be conducted	

Impact No. and Description of Impact	Mitigation	Conclusion and Mitigation Effectiveness
	MITIGATED TO A LEVEL OF LESS THAN SIGNI	
	using a County-approved model and/or methodology	MCANT
	and must validate the continuing adequacy of	
	modeling inputs used in the EIR that are not	
	proposed to be altered as part of the "true-up"	
	exercise. The inclusion of the validation	
	requirement ensures that any updated operational	
	GHG emissions inventories for the Project fully	
	account for then-existing information that is	
	relevant to the emissions modeling.	
	TI " CHC	
	The "true up" operational GHG emissions inventory, if conducted, will be provided in the form of a	
	Project-specific Updated Emissions Inventory and	
	Offset Report to the County's Board of Supervisors	
	prior to the issuance of building permits for the next	
	build-out phase. The subject technical documentation	
	shall be prepared by a County-approved, qualified air	
	quality and greenhouse gas technical specialist.	
	In all instances, substantial evidence must confirm	
	that any reduction to the total carbon offsets value as	
	identified in the certified EIR for the Project is	
	consistent with the commitment to achieve and	
	maintain carbon neutrality (i.e., net zero emissions) for the 30-year life of the Project.	
	101 the 30-year file of the Froject.	
	Locational Performance Standards	
	All carbon offsets required to reduce the Project's	
	GHG emissions shall originate from the following	
	geographic locations (in order of priority): (1) off-	
	site, unincorporated areas of the County of San	
	Diego; (2) off-site, incorporated areas of the County	
	of San Diego; (3) off-site areas within the State of	
	California; and, (4) off-site areas within the United	
	States. No carbon offsets shall originate from off-	
	site, international areas. As listed, geographic	
	priorities would focus first on local reduction options to ensure that reduction efforts achieved	
	locally would provide cross-over, co-benefits to	
	other environmental resource areas.	
	For purposes of implementing this mitigation	
	measure, the County shall require the carbon offsets	
	to adhere to the following locational performance	
	standards in order to reduce the Project's	
	operational GHG emissions:	

Impact No. and		Conclusion and Mitigation
Description of Impact	Mitigation	Effectiveness
SIGNIFICANT IMPACTS I	MITIGATED TO A LEVEL OF LESS THAN SIGNII	FICANT
	i) The Project shall use all available carbon offsets within the County of San Diego (the	
	first priority is within unincorporated areas of	
	the County and the second priority is within	
	incorporated areas of the County). "Available,"	
	for purposes of this subdivision, means that the	
	Project Applicants provide objective, verifiable	
	evidence to the County documenting that such	
	carbon offsets are available for retirement from	
	carbon offset projects within the subject	
	geography no later than at the time of	
	application for grading permit issuance. The objective, verifiable evidence to be provided	
	includes a market survey report that shall	
	comply with the following content	
	requirements:	
	a. Preparation by a carbon offset broker with a	
	a. Preparation by a carbon offset broker with a minimum of 10 years of experience	
	assisting with transactions in emissions	
	markets;	
	b. Identification of the carbon registry listings	
	reviewed for carbon offset availability,	
	including the related date of inquiry; and,	
	c. Identification of the geographic attributes of	
	carbon offsets that are offered for sale and	
	available for retirement.	
	ii) In the examt that a sufficient quantity of conhan	
	ii) In the event that a sufficient quantity of carbon offsets are not "available" in the County of San	
	Diego, the Project shall obtain the remaining	
	carbon offsets needed from within the State of	
	California (third priority). For the definition of	
	"available," see subdivision i) immediately	
	above.	
	iii) In the event that a sufficient quantity of carbon	
	offsets are not "available" in the County of San	
	Diego or State of California, the Project shall	
	obtain the remaining carbon offsets needed	
	from within the United States (fourth priority).	
	For the definition of "available," see subdivision i) immediately above.	
	subdivision i) inimediately above.	
	Reporting and Enforcement Standards	
	Over the course of build out of the Project and prior	
	to issuance of requested building permits, the	

Impact No. and		Conclusion and Mitigation
Description of Impact	Mitigation	Effectiveness
	MITIGATED TO A LEVEL OF LESS THAN SIGNII	
SIGNIFICANT IMITACTS	Project Applicants shall submit reports to the	ICANT
	County that identify the quantity of emission	
	reductions required by this mitigation measure, as	
	well as the carbon offsets to be retired to achieve	
	compliance with this measure. For purposes of	
	demonstrating that each offset is additional, real,	
	permanent, quantifiable, verifiable and enforceable,	
	the reports shall include: (i) the applicable protocol(s)	
	and methodologies associated with the carbon offsets,	
	(ii) the third-party verification report(s) and	
	statement(s) affiliated with the carbon offset projects,	
	(iii) the unique serial numbers assigned by the	
	registry(ies) to the carbon offsets to be retired, which serves as evidence that the registry has determined	
	the carbon offset project to have been implemented in	
	accordance with the applicable protocol or	
	methodology and ensures that the offsets cannot be	
	further used in any manner, and (iv) the locational	
	attributes of the carbon offsets. The reports also shall	
	append the market survey report described in the	
	"Locational Performance Standards" provision	
	above.	
	If the County determines that the Project's carbon	
	offsets do meet the requirements of this mitigation	
	measure, the offsets can be used to reduce Project	
	GHG emissions and Project permits shall be issued.	
	Upon an affirmative finding from the County that the	
	Project's carbon offsets are eligible for use under this	
	measure, and prior to permit issuance, the County shall confirm that the Project Applicants have	
	included, in their carbon offset purchase	
	agreement(s), a requirement that the carbon offset	
	seller(s) provide the County with reasonable notice of	
	any emissions reversal from the carbon offsets that	
	are the subject of the transaction(s). The County also	
	shall confirm that the Project Applicants' purchase	
	agreement(s) requires the seller(s) to provide the	
	County with information and evidence regarding the	
	steps taken by the applicable registry(ies) and carbon	
	offset project developer(s) to rectify any reversal in	
	accordance with applicable program manuals, protocols and methodologies, and provide	
	supporting documentation from the registry(ies) to	
	substantiate the correction of the reversal. In the	
	event that the County concludes an offset reversal	
	has not been sufficiently corrected within a	
	reasonable period of time based on the nature of the	

Impact No. and	Mitigation	Conclusion and Mitigation Effectiveness
Description of Impact	Mitigation MITIGATED TO A LEVEL OF LESS THAN SIGNII	
SIGNIFICANT IMPACTS	MITIGATED TO A LEVEL OF LESS THAN SIGNII reversal and the standards set forth in the applicable	SICANI
	program manuals, protocols and methodologies, the	
	County shall require an equivalent quantity of	
	substitute GHG reductions are achieved. Methods to	
	achieve the reductions could include requiring the	
	Project Applicants to secure and retire substitute	
	carbon offsets meeting the requirements of this	
	mitigation measure in a quantity equivalent to those	
	reversed. (Please see M-GCC-7 Attachment "B,"	
	which includes a process timeline and associated flow chart for the implementation and administration	
	of the mitigation measure's requirements. M-GCC-7	
	Attachment "B" is an attachment to this mitigation	
	measure that is part-and-parcel of the mitigation	
	measure.)	
	If the County determines that the Project's carbon	
	offsets do not meet the requirements of this	
	mitigation measure, the offsets cannot be used to reduce Project GHG emissions and Project permits	
	shall not be issued. Additionally, the County may	
	issue a notice of non-consistency and cease	
	permitting activities in the event that the County	
	determines the carbon offsets provided to reduce	
	Project GHG emissions are not compliant with the	
	aforementioned standards. In the event of such an	
	occurrence, Project permitting activities shall not	
	resume until the Project Applicants have	
	demonstrated that the previously provided carbon	
	offsets are compliant with the standards herein or have provided substitute carbon offsets achieving the	
	standards of this mitigation measure in the quantity	
	needed to achieve the required emission reduction.	
	M-GCC 8 Carbon Offsets Operational	
	Emissions As to operational emissions, the Project	
	applicant (or theirits designee) shall providepurchase	
	and retire carbon offsets sufficient to offset, for a	
	30 year period, the operational GHG emissions from	
	that incremental amount of development to net zero, consistent with the performance standards and	
	requirements set forth below.	
	1040Hellion is set for in oblow.	
	First, "carbon offset" shall have the same meaning as set forth in M-GCC 7.	
	Second, any carbon offset utilized to reduce the Project's GHG emissions shall be a carbon offset	

Impact No. and Description of Impact SIGNIFICANT IMPACTS MITIGATED TO A LEVEL OF LESS THAN SIGNIFICANT that represents the past or forecasted reduction or sequestration of 1 MT CO ₂ e equivalent that is "not otherwise required" (CEQA Guidelines	
SIGNIFICANT IMPACTS MITIGATED TO A LEVEL OF LESS THAN SIGNIFICANT that represents the past or forecasted reduction or sequestration of 1 MT CO ₂ e equivalent that is "not	
that represents the past or forecasted reduction or sequestration of 1 MT CO ₂ e equivalent that is "not	
sequestration of 1 MT CO ₂ e-equivalent that is "not	
§15126.4(c)(3)). By requiring that the offset is "not	
otherwise required," the offset shall represent GHG	
reduction or sequestration additional to any GHG	
emission reduction otherwise required by law or	
regulation, and any other GHG emission reduction	
that otherwise would occur (Health & Saf. Code,	
§38562(d)(2)).	
Third, because the Project will be built in phases	
over approximately eleven years, which influences both the quantity of operational GHG emissions and	
the level of reduction required to achieve net zero	
GHG emissions, the Project applicant (or their its	
designee) shall utilize one of the two following	
compliance options to secure the necessary carbon	
offsets, as allowed in CEQA Guidelines Section	
15126.4(c)(3):	
(1) Drive to the issuence of the first building manneit	
(1) Prior to the issuance of the first building permit, the Project applicant (or their its designee) shall	
provide evidence to the San Diego County	
Planning & Development Services Department	
that its has obtained carbon offsets in the amount	
of 28,625 MT CO ₂ e per year multiplied by 30	
years.	
(2) Prior to the issuance of each increment of	
building permits for the phased development of	
the Project, the Project applicant (or theirits	
designee) shall provide evidence to San Diego County Planning & Development Services	
Department that it has obtained the amount of	
carbon offsets required for the increment of	
development being permitted for a 30-year	
period. The amount of carbon offsets required	
shall be based on and include operational GHG	
emissions as identified in the certified EIR. The	
application(s) for permit issuance shall include,	
as attachments, emissions calculation	
worksheets that identify the emissions reduction	
obligation of the increment of development being permitted and tracking tables that identify	
being permitted and tracking tables that identify any previous carbon offsets retired purchased, as	
well as the amount of carbon offsets anticipated	

		Conclusion and
Impact No. and	3.500	Mitigation
Description of Impact	Mitigation	Effectiveness
SIGNIFICANT IMPACTS M	IITIGATED TO A LEVEL OF LESS THAN SIGNII	FICANT
	to be associated with the unbuilt, unpermitted	
	portion(s) of the Project. Such application	
	materials shall be to the satisfaction of the	
	Director of Planning & Development Services.	
	The Director of Planning & Development Services	
	shall require the Project applicant (or its designee)	
	to provide documentation from the selected	
	registry(ies) that a sufficient quantity of carbon	
	offsets under option (1) or (2) meeting the standards	
	set forth in this measure have been retired, thereby	
	demonstrating that the necessary emission	
	reductions are realizedEvidence of compliance	
	with option (1) or (2) shall consist of documentation	
	from the selected registry(ies) illustrating the	
	retirement of carbon offsets meeting the standards	
	set forth in this measure in a quantity equal to the	
	GHG emission reductions that need to be realized.	
	The documentation shall identify the registry	
	assigned serial number associated with each retired	
	carbon offset; the referenced serial numbers are	
	used by registries to ensure that each metric ton of	
	reduction meets the requirements identified in the	
	applicable protocol and is counted and retired only once. The documentation also shall identify the	
	locational attributes of the carbon offsets in order to	
	allow San Diego County Planning & Development	
	Services Department to track and monitor the	
	implementation of the geographic priority provision	
	set forth below.	
	Fourth, the purchased carbon offsets used to reduce	
	operational GHG emissions shall achieve real,	
	permanent, quantifiable, verifiable, and enforceable	
	reductions (Health & Saf. Code, §38562(d)(1)).	
	Fifth as new federal state and local regulations are	
	Fifth, as new federal, state and local regulations are adopted or technological advancements occur, the	
	quantity of emission reductions needed to	
	demonstrate achievement of the net zero emissions	
	level may decrease. Therefore, the amount of	
	carbon offsets needed may be reduced if the Project	
	applicant (or their its designee) can demonstrate,	
	with substantial evidence, that changes in regulation	
	or law, or other increased technological efficiencies	
	have reduced the total MT CO2e emitted by the	
	Project. As described further in the following	
	paragraph, any modification to the emissions	

Impact No. and		Conclusion and Mitigation
Description of Impact	Mitigation	Effectiveness
SIGNIFICANT IMPACTS	MITIGATED TO A LEVEL OF LESS THAN SIGNI	FICANT
	reduction value stated herein shall require approval	
	from the County's Board of Supervisors, as	
	considered pursuant to a noticed public hearing	
	process that accords with applicable legal	
	requirements, including those set forth in CEQA for the post approval modification of mitigation	
	implementation parameters.	
	implementation parameters:	
	Specifically, if the Project applicant elects to process	
	a "true up" exercise subsequent to the County's	
	certification of the Final EIR and approval of the	
	Project, the Project applicant shall provide an	
	operational GHG emissions inventory of the	
	proposed Project's operational emissions for the	
	"true up" operational conditions, including emissions	
	from mobile sources, energy, area sources, water	
	consumption, and solid waste. Subject to the	
	satisfaction of the Board of Supervisors, these	
	calculations shall be conducted using a County	
	approved model and/or methodology and must validate the continuing adequacy of modeling	
	inputs used in the EIR that are not proposed to be	
	altered as part of the "true up" exercise. The	
	inclusion of the validation requirement ensures that	
	any updated operational GHG emissions inventories	
	for the Project fully account for then existing	
	information that is relevant to the emissions	
	modeling.	
	The "true up" operational GHG emissions inventory,	
	if conducted, will be provided in the form of a	
	Project specific Updated Emissions Inventory and	
	Offset Report to the County's Board of Supervisors	
	(or its designee) prior to the issuance of building	
	permits for the next build out phase. The subject	
	technical documentation shall be prepared by a	
	County-approved, qualified air quality and greenhouse gas technical specialist.	
	greennouse gas teenmeat specialist.	
	In all instances, substantial evidence must confirm	
	that any reduction to the total carbon offsets value as	
	identified in the certified Final EIR for the Project is	
	consistent with the Project commitment to achieve	
	and maintain carbon neutrality (i.e., net zero	
	emissions) for the 30 year life of the Project.	
	Sixth, all carbon offsets required to reduce the	
	Project's operational emissions shall be associated	
	1 10 ject 3 operational emissions shall be associated	1

		Conclusion and
Impact No. and	Mitigation	Mitigation
Description of Impact	Mitigation	Effectiveness
SIGNIFICANT IMPACTS N	IITIGATED TO A LEVEL OF LESS THAN SIGNII with reduction activities that are geographically	SICANI
	prioritized according to the following locational	
	attributes: (1) off site, unincorporated areas of the	
	County of San Diego; (2) off site, incorporated	
	areas of the County of San Diego; (3) off site areas	
	within the State of California; (4) off site areas	
	within the United States; and, (5) off site,	
	international areas. As listed, geographic priorities	
	would focus first on local reduction options	
	(including projects and programs that would reduce	
	GHG emissions) to ensure that reduction efforts	
	achieved locally would provide cross over, co	
	benefits to other environmental resource areas.	
	The Director of Planning & Development Services	
	shall issue a written determination that offsets are	
	unavailable and/or fail to meet the feasibility	
	definition and factors set forthdefined in CEQA	
	Guidelines Section 15364 in a higher priority	
	geographic category before allowing the Project	
	applicant or theirits designee to use offsets from the	
	next lower priority category. In making such a	
	determination, the Director of Planning &	
	Development Services shall consider information	
	available at the time each Project-related buildinggrading permit request is submitted,	
	including but not limited to:	
	merading out not infined to.	
	The availability of in County and in State	
	emission reduction opportunities, including	
	funding and partnership opportunities with the	
	County, other public agencies, or	
	environmental initiatives with demonstrated integrity where such reduction opportunities	
	use methodologies and protocols approved by	
	a specified registry (see "First" paragraph	
	above for the definition of such registries);	
	The geographic attributes of carbon offsets	
	that are listed for purchase and retirement;	
	The temporal attributes of carbon offsets that	
	are listed for purchase and retirement;	
	 The pricing attributes of carbon offsets that 	
	are listed for purchase and retirement; and/or,	
	 Any other information deemed relevant to the 	
	evaluation, such as periodicals and reports	
	addressing the availability of carbon offsets.	

Impact No. and Description of Impact SIGNIFICANT IMPACTS N	Mitigation HITIGATED TO A LEVEL OF LESS THAN SIGNIF	Conclusion and Mitigation Effectiveness		
	M-GCC-9 Prohibitions on Specified Types of Gas-Powered Engines The Project's Conditions, Covenants & Restrictions (CC&Rs) shall prohibit the homeowners from using or contracting for the operation of gas-powered landscape maintenance equipment (e.g., lawn mowers, leaf blowers, hedgers) within their privately-owned and maintained residential footprint. Additionally, the CC&Rs shall prohibit the homeowners from operating combustion engine-powered golf carts in the community. Both of these prohibitions are intended to facilitate the deployment of electric- powered equipment and the use of zero emission technology.			
CUM	IULATIVE-LEVEL IMPACTS			
2.4 Cultural Resources 2.4.3.1 Cumulative Prehistoric and Historic Impacts				
CR-5 Contribution to cumulative archaeological resources (prehistoric sites) impacts within the Project vicinity.	M-CR-1 and M-CR-2 See Above.	Less than significant		
	2.4.3.2 Cumulative Paleontological Resources Impacts			
<u>CR-6 Contribution to paleontological</u> resources impacts within the Project vicinity.	M-CR-4 See Above.	Less than significant		
	2.9 Transportation and Traffic			
	2.9.3.4 Cumulative Year (2025)			
TR-7 Otay Lakes Road / Wueste Road (City of CV) - This intersection (#20) would operate at unacceptable LOS F during both the AM and PM peak hours with the addition of the project traffic because the Project traffic would comprise more than 5 percent of the total entering volumes.	M-TR-7 Prior to recordation of the first final map, the Project applicant shall enter into an agreement with the City of Chula Vista to secure and construct, or cause to be constructed, a traffic signal at the intersection of Otay Lakes Road and Wueste Road such that the improvements are operational prior to construction of the 1,234th EDU.	Less than significant		
TR-9 Otay Lakes Road, between Lake Crest Dr and Wueste Rd (LOS F, City of CV) – Proposed buildout project trips would comprise 74.7% (more than 5%) of the total segment volume, and would add 15,810 ADT (more than 800 ADT). Additionally, the intersection Otay Lake Road / Wueste Road is projected to operate at unacceptable LOS F during the peak hours.	M-TR-9 Prior to recordation of the first final map, the Project applicant shall enter into an agreement with the City of Chula Vista to secure and construct, or cause to be constructed, the widening of Otay Lakes Road between Lake Crest Drive and Wueste Road and the City/County Boundary from two lanes to four lanes (4-Lane Major with Raised Median), such that the improvements are operational prior to construction of the 384th EDU.	Less than significant		

Table S.1 Summary of Significant Effects and Mitigation Measures

Impact No. and		Conclusion and Mitigation
Description of Impact	Mitigation	Effectiveness
	IITIGATED TO A LEVEL OF LESS THAN SIGNIF	
TR-10 Otay Lakes Road, between	M-TR-10 Prior to recordation of the first final map,	Less than
Wueste Road and the City of Chula	the Project applicant shall enter into an agreement	significant
Vista/County boundary (LOS F, City of	with the City of Chula Vista to secure and construct,	<u> </u>
CV) – Proposed buildout project trips	or cause to be constructed, the widening of Otay	
would comprise 76.5% (more than 5%)	Lakes Road between Lake Crest Drive and Wueste	
of the total segment volume, and would	Road and the City/County Boundary from two lanes	
add 19,540 ADT (more than 800 ADT).	to four lanes (4-Lane Major with Raised Median),	
Additionally, the intersection of Otay	such that the improvements are operational prior to	
Lake Road / Wueste Road is projected to	construction of the 384 th EDU.	
operate at unacceptable LOS F during		
the peak hours.		
TR-11 Otay Lakes Road, between City	M-TR-11 Otay Lakes Road, between City/County	Less than
of Chula Vista/County boundary and	Boundary and Project Driveway #1/Intersection #42	significant
Project Driveway #1 (LOS F, County) –	(County) - this roadway segment is included in the	
Proposed buildout project would add	list of facilities included in the County's TIF	
more than 200 ADT to this failing 2-lane	Program and is classified as a Major Road (4.1B) in	
roadway segment.	the County of San Diego General Plan Mobility	
	Element. The project applicant proposes to change	
	this roadway segment classification to a Boulevard	
	(4.2A). Accordingly, the project applicant would be	
	responsible for participating in an update to the TIF	
	Program to reflect the change in classification.	
	Subsequently, the project applicant would be	
	responsible for complying with the updated TIF	
TTD 44 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Program to mitigate for cumulative impacts.	T 1
TR-12 Otay Lakes Road, between	M-TR-12 Otay Lakes Road, between Project	Less than
Project Driveway #1 and Driveway #2	Driveway #1/Intersection #42 and Project Driveway	<u>significant</u>
(LOS F, County) – Proposed buildout	#2/Project Driveway #43 (County) - this roadway	
project would add more than 200 ADT	segment is included in the list of facilities included	
to this failing 2-lane roadway segment.	in the County's TIF Program and is classified as a	
	Major Road (4.1B) in the County of San Diego	
	General Plan Mobility Element. The project applicant proposes to change this roadway segment	
	classification to a Boulevard (4.2A). Accordingly,	
	the project applicant would be responsible for	
	participating in an update to the TIF Program to	
	reflect the change in classification. Subsequently, the	
	project applicant would be responsible for	
	complying with the updated TIF Program to mitigate	
	for cumulative impacts.	
	101 Talliana (California)	

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