

**VOLUME I:**

**DRAFT ENVIRONMENTAL IMPACT REPORT**



**STATE CLEARINGHOUSE NO. 2019110154  
TIRADOR RESIDENTIAL DEVELOPMENT PROJECT  
CITY OF SAN JUAN CAPISTRANO**

Submitted to:

City of San Juan Capistrano  
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- G: NOISE IMPACT ASSESSMENT
- H: TRAFFIC IMPACT ANALYSIS
- I: NATIVE AMERICAN CONSULTATION

## ACRONYMS AND ABBREVIATIONS

°F	Fahrenheit
µg/m <sup>3</sup>	micrograms per cubic meter
AAQS	ambient air quality standards
AARP	Agreement Affecting Real Property
AB	Assembly Bill
ADA	Americans with Disabilities Act (of 1990)
ADT	average daily trips
AGR	Agricultural Supply
AQMP	Air Quality Management Plan
APA	American Planning Association
APN	Assessor's Parcel Number
ARMC	Archaeological Resources Management Corporation
BAAQMD	Bay Area Air Quality Management District
Basin	South Coast Air Basin
BAU	business as usual
bgs	below ground surface
Bio-CO <sub>2</sub>	Biologically Generated Carbon Dioxide
BMPs	best management practices
BTU	British Thermal Unit(s)
CAA	(Federal) Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAFE	Corporate Average Fuel Economy
CAL FIRE	California Department of Forestry and Fire Protection
CalEEMod	California Emissions Estimator Model
CALGreen Code	California Green Building Standards Code
California Register	California Register of Historical Resources

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CalRecycle	California Department of Resources Recycling and Recovery
Caltrans	California Department of Transportation
Cal/EPA	California Environmental Protection Agency
Cal/OSHA	California Occupational Safety and Health Administration
CAMWC	Capistrano Acres Mutual Water Company
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CBC	California Building Code
CBIA	California Building Industry Association
CBSC	California Building Standards Commission
CCAA	California Clean Air Act
CCR	California Code of Regulations
CDFG	California Department of Fish and Game, former name of CDFW
CDFW	California Department of Fish and Wildlife
CDMG	California Division of Mines and Geology
CDP	(Ortega Planned Community) Comprehensive Development Plan
CEC	California Energy Commission
Census Bureau	United States Census Bureau
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
cf	cubic feet
CFR	Code of Federal Regulations
cfs	cubic feet per second
CGS	California Geological Survey
CH <sub>4</sub>	methane
City	City of San Juan Capistrano
CLOMR	Conditional Letter of Map Revision
CLOMR-F	Conditional Letter of Map Revision Based on Fill



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CMP	(Orange County) Congestion Management Program
CNDDDB	(CDFW) California Natural Diversity Data Base
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> e	CO <sub>2</sub> equivalent
COLD	Cold Freshwater Habitat
County	County of Orange
CPUC	California Public Utilities Commission
CTR	California Toxics Rule
CUSD	Capistrano Unified School District
CWA	Clean Water Act
cy	cubic yards
DAMP	Drainage Area Management Plan
dB	decibel(s)
dBA	A-weighted decibel(s)
DDE	dichlorodiphenyldichloroethylene
DEIR	Draft Environmental Impact Report
DOC	(California) Department of Conservation
du	dwelling unit
du/ac	dwelling unit per acre
DWR	Department of Water Resources
EI	Expansion Index
EIA	United States Energy Information Administration
EIR	Environmental Impact Report
EIR/EIS	Environmental Impact Report/Environmental Impact Statement
EO	Executive Order

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ESA	Environmental Site Assessment, also Environmentally Sensitive Area
EV	electric vehicle
FAR	Floor Area Ratio
FEIR	Final Environmental Impact Report
FEMA	Federal Emergency Management Agency
FESA	Federal Endangered Species Act
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Map
FMMP	Farmland Mapping and Monitoring Program
ft	foot/feet
FTA	Federal Transit Administration
GCC	global climate change
GHG	greenhouse gas
GPA	General Plan Amendment
GSAs	Groundwater Sustainability Agencies
GWh	gigawatt hours
GWP	Global Warming Potential
HA	Hydrologic Area
HCM	Highway Capacity Manual
HCP	Habitat Conservation Plan
HFCs	hydrofluorocarbons
HMP	Hydromodification Management Plan
HOA	Homeowner's Association
HRA	health risk assessment
HSA	Hydrologic Subarea
HSC	California Health and Safety Code
HU	Hydrologic Unit
HVAC	heating, ventilation, and air-conditioning

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I-5	Interstate 5
I-215	Interstate 215
ICU	Intersection Capacity Utilization
in/sec	inches per second
IND	Industrial Service Supply
IPaC	(USFWS) Information for Planning and Consultation
IPCC	United Nations Intergovernmental Panel on Climate Change
IS	Initial Study
IS/NOP	Initial Study/Notice of Preparation
ISA	International Society of Arboriculture
ISHB	Invasive Shot Hole Borers
ITE	Institute of Transportation Engineers
JRMP	Jurisdictional Runoff Management Plan
kW	kilowatt
kWh	kilowatt-hours
LACM	Natural History Museum of Los Angeles County
lbs/day	pounds per day
L <sub>dn</sub>	day-night average level
L <sub>eq</sub>	equivalent continuous sound level
LID	Low Impact Development
L <sub>max</sub>	maximum instantaneous noise level
LOMR	Letter of Map Revision
LOMR-F	Letter of Map Revision Based on Fill
LOS	level of service
LOSSAN	Los Angeles-San Diego-San Luis Obispo Rail Corridor
LSA	LSA Associates, Inc.
LST	Localized Significance Threshold
MBTA	Migratory Bird Treaty Act

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mg/kg	milligrams per kilogram
mg/l	milligrams per liter
MLD	Most Likely Descendant
MMRP	Mitigation Monitoring and Reporting Program
MMT	million metric tons
MMT of CO <sub>2</sub> e	million metric tons of CO <sub>2</sub> e
MND	Mitigated Negative Declaration
Model WQMP	Model Water Quality Management Plan
MPAH	(Orange County) Master Plan of Arterial Highways
mph	miles per hour
MPO	Metropolitan Planning Organization
MRZ	Mineral Resource Zone
MSAA	Master Streambed Alteration Agreement
MS4	Municipal Separate Storm Sewer System
MT	metric tons
MT of CO <sub>2</sub> e	metric tons of CO <sub>2</sub> e
MT of CO <sub>2</sub> e/yr/SP	MT of CO <sub>2</sub> e per year per service population
MUN	Municipal and Domestic Supply
MW	megawatt
N <sub>2</sub> O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Repatriation Act
NAHC	Native American Heritage Commission
National Register	National Register of Historic Places
NBio-CO <sub>2</sub>	non-biologically generated CO <sub>2</sub>
NCCP	Natural Communities Conservation Plan
NCCP/MSAA/HCP	Natural Communities Conservation Plan/Master Streambed Alteration Agreement/Habitat Conservation Plan

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NDS	National Data & Surveying Services
NEHRP	National Earthquake Hazards Reduction Program
NF <sub>3</sub>	nitrogen trifluoride
NFIP	National Flood Insurance Program
NHTSA	National Highway Traffic Safety Administration
NO	nitric oxide
NO <sub>2</sub>	nitrogen dioxide
NOI	Notice of Intent
NOP	Notice of Preparation
NO <sub>x</sub>	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NTU	nephelometric turbidity units
O <sub>3</sub>	ozone
OCFA	Orange County Fire Authority
OCFCD	Orange County Flood Control District
OCPL	Orange County Public Library
OCPW	Orange County Public Works
OCSD	Orange County Sheriff's Department
OCSSHCP	Orange County Southern Subregion Habitat Conservation Plan
OCTA	Orange County Transportation Authority
OCTAM	Orange County Transportation Analysis Model
OSHA	Occupational Safety and Health Administration
Pb	lead
PBFs	physical and biological features
PCH	Pacific Coast Highway, also known as SR-1
PFCs	perfluorocarbons
PGA	peak ground acceleration
pH	percentage of hydrogen

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PM <sub>2.5</sub>	particulate matter less than 2.5 microns in diameter
PM <sub>10</sub>	particulate matter less than 10 microns in diameter
Porter-Cologne Act	Porter-Cologne Water Quality Control Act of 1970
ppm	parts per million
PPV	peak particle velocity
PRC	Public Resources Code
PRDs	Permit Registration Documents
PRIMP	Paleontological Resources Impact Mitigation Program
PWQMP	Preliminary Water Quality Management Plan
RCM	Regulatory Compliance Measure
RCP	Regional Comprehensive Plan, also reinforced concrete pipe
REC1	Contact Water Recreation
REC2	Noncontact Water Recreation
RHNA	(SCAG) Regional Housing Needs Assessment
ROCs	reactive organic compounds
ROGs	reactive organic gases
RTP/SCS	(SCAG) Regional Transportation Plan/Sustainable Communities Strategy
RWQCB	Regional Water Quality Control Board
SAFE Vehicles Rule	The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks
SB	Senate Bill
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SCH	State Clearinghouse
SDG&E	San Diego Gas & Electric Company
SE	sand equivalent
sf	square foot/feet

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SF <sub>6</sub>	sulfur hexafluoride
SGMA	Sustainable Groundwater Management Act of 2014
SHMA	Seismic Hazard Mapping Act
SIP	State Implementation Plan
SLF	Sacred Lands File
SMARTS	Stormwater Multiple Application and Report Tracking System
SMWD	Santa Margarita Water District
SO <sub>2</sub>	sulfur dioxide
SO <sub>4</sub>	sulfates
SO <sub>x</sub>	sulfur oxides
SOS	Supplemental Open Space
sq mi	square mile(s)
SR-1	State Route 1, also known as Pacific Coast Highway
SR-73	State Route 73
SR-74	State Route 74, also known as Ortega Highway
SRA	Source Receptor Area
STC	Sound Transmission Class
SVP	Society of Vertebrate Paleontologists
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAZ	traffic analysis zone
TCA	Transportation Corridor Agencies
TCE	tetrachloroethene
TDS	total dissolved solids
TGD	Technical Guidance Document
TIA	Traffic Impact Analysis for the Tirador Residential Development Project
TMDL	Total Maximum Daily Load
UNFCCC	United Nations Framework Convention on Climate Change

USC	United States Code
USDOT	United States Department of Transportation
USEPA	United States Environmental Protection Agency
USFWS	United State Fish and Wildlife Service
USGS	United States Geological Survey
v/c	volume to capacity
VdB	vibration velocity decibel
Ventanas EIR	Ventanas Business Center Environmental Impact Report
VHFHSZ	Very High Fire Hazard Severity Zone
VMT	vehicle miles traveled
VOC	volatile organic compounds
WARM	Warm Freshwater Habitat
WDID	Waste Discharge Identification Number
WILD	Wildlife Habitat
WQMP	Water Quality Management Plan
ZNE	zero net energy