



**DANA RESERVE  
SPECIFIC PLAN  
FINAL  
ENVIRONMENTAL  
IMPACT REPORT  
SCH NO. 2021060558**



**PREPARED FOR**

County of San Luis Obispo  
Planning and Building Department  
976 Osos Street, Room 200  
San Luis Obispo, CA 93408

**VOLUME 1: CHAPTERS 1–8**

**April 2024**

**PREPARED BY**

SWCA Environmental Consultants  
4111 Broad Street, Suite 210  
San Luis Obispo, CA 93401





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SWCA Project No. 64873

April 2024



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## Acronyms and Abbreviations

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Acronym / Abbreviation	Term
°F	degrees Fahrenheit
3CE	Central Coast Community Energy
AAF	Average Annual Flow
AB	Assembly Bill
AC	asphaltic concrete
ACEP	Agricultural Conservation Easement Program
ACM	Asbestos Containing Material
ADL	aerially deposited lead
ADU	Accessory Dwelling Unit
AF	acre-feet
AFV	alternative fuel vehicles
AFY	acre-feet per year
AG	Agriculture land use designation
Agreement	Supplemental Water Management and Groundwater Replenishment Agreement
ASHERA	Asbestos Hazard Emergency Response Act
AMBIENT	AMBIENT Air Quality & Noise Consulting
amsl	above mean sea level
A-P	Alquist-Priolo
APN	Assessor's Parcel Number
APS	alternative planning strategy
APS	auxiliary power system
AT&T	American Telephone & Telegraph Company
ATCM	Airborne Toxic Control Measure
BCC	Birds of Conservation Concern
Bikeways Plan	San Luis Obispo County Bikeways Plan
BMP	best management practice
BOD <sub>5</sub>	biological oxygen demand
BSC	Building Standards Commission
C <sub>2</sub> F <sub>6</sub>	perfluoroethane
C <sub>2</sub> H <sub>3</sub> Cl	Vinyl chloride
C <sub>3</sub> F <sub>8</sub>	perfluoropropane
C <sub>4</sub> F <sub>8</sub>	perfluorocyclobutane
C <sub>4</sub> F <sub>10</sub>	perfluorobutane
C <sub>5</sub> F <sub>12</sub>	perfluoropentane
C <sub>6</sub> F <sub>14</sub>	perfluorohexane
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards

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<b>Acronym / Abbreviation</b>	<b>Term</b>
CAC	Certified Asbestos Consultant
CAFE	Corporate Average Fuel Economy [standards]
CAL FIRE	California Department of Forestry and Fire Protection
Cal OES	California Governor's Office of Emergency Services
Cal/OSHA	California Division of Occupational Safety and Health Administration
CalARP	California Accidental Release Prevention Program
CalEEMod	California Emission Estimator Model
CalEPA	California Environmental Protection Agency
CalGEM	California Department of Conservation Geologic Energy Management Division
CALGreen	California Green Building Standards
CAPTI	Climate Action Plan for Transportation Infrastructure
CalRecycle	California Department of Resources Recycling and Recovery
CalSTA	California State Transportation Agency
Cal-IPC	California Invasive Plant Council
Caltrans	California Department of Transportation
CAP	Clean Air Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CBC	California Building Code
CBSC	California Building Standards Commission
CC&Rs	Declaration of Covenants, Conditions, and Restrictions
CCAA	California Clean Air Act
CCH	Consortium of California Herbaria
CCIC	Central Coast Information Center
CCR	California Code of Regulations
CCTC	Central Coast Transportation Consulting
CDF	County Fire Department
CDFW	California Department of Fish and Wildlife
CDOC	California Department of Conservation
CDP	census designated place
CDR	Conceptual Design Report
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CESA	California Endangered Species Act
CF <sub>4</sub>	perfluoromethane
CFC	California Fire Code
CFGC	California Fish and Game Code
CFR	Code of Federal Regulations

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<b>Acronym / Abbreviation</b>	<b>Term</b>
CGS	California Geological Survey
CH	Federal Critical Habitat
CH <sub>4</sub>	methane
CHL	California Historic Landmark
CHP	California Highway Patrol
CHRIS	California Historical Resources Information System
CIP	Capital Improvement Plan
CKH Act	Cortese-Knox-Hertzberg Local Government Reorganization Act
cm	centimeter
cmbs	centimeters below the surface
CNDDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNG	compressed natural gas
CNPS	California Native Plant Society
CO	carbon monoxide
CO <sub>2</sub>	Carbon Dioxide
CO <sub>2</sub> e	Carbon Dioxide Equivalent
Cold Canyon Landfill	Cold Canyon Sanitary Landfill
COSE	Conservation and Open Space Element
County	County of San Luis Obispo
CPUC	California Public Utilities Commission
CR	Commercial Retail land use designation
CRHR	California Register of Historical Resources
CRPP	Cultural Resources Protection Plan
CRPR	California Rare Plant Rank
CRZ	Critical Root Zone
CS	Commercial Service land use designation
CSA	community service area
CSD	community services district
CUP	Conditional Use Permit
CUPA	Certified Unified Program Agency
CVC	California Vehicle Code
CWA	Clean Water Act
CWHR	California Wildlife Habitat Relationship
CWPP	Community Wildfire Protection Plan
dB	decibel
dBA	A-weighted decibel
DBH	diameter at breast height
DIP	ductile iron pipe

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<b>Acronym / Abbreviation</b>	<b>Term</b>
DLRP	Division of Land Resource Protection
DMA	drainage management area
DMG	California Department of Conservation Division of Mines and Geology
DMR	California Department of Conservation Division of Mine Reclamation
DOF	California Department of Finance
DPM	diesel particulate matter
DPR	California Department of Parks and Recreation
DR-FC	Flex Commercial
DR-MF	Residential Multi-Family
DR-OS	Open Space
DR-REC	Recreation
DR-SF1	Residential Single-Family 1
DR-SF2	Residential Single-Family 2
DRSP	Dana Reserve Specific Plan
DR-VC	Village Commercial
DTSC	California Department of Toxic Substance Control
DWR	California Department of Water Resources
EDD	California Employment Development Department
EHS	Environmental Health Services
EIR	Environmental Impact Report
EO	Executive Order
EOP	Emergency Operations Plan
EPAAct	Energy Policy Act of 1992
ESA	Environmentally Sensitive Area
ESCP	Erosion and Sedimentation Control Plan
ESP	Earth Systems Pacific
EWP	EnergyWise Plan
EX	Energy or Extractive Resource Area
EX1	Extractive Resource Area
Farmland	Prime Farmland, Unique Farmland, or Farmland of Statewide Importance
FC	Federal Candidate
FCAA	Federal Clean Air Act
FE	Federal Endangered
FEMA	Federal Emergency Management Agency
FESA	Federal Endangered Species Act
FHSZ	Fire Hazard Severity Zone
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Map
FMMP	Farmland Mapping and Monitoring Program

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<b>Acronym / Abbreviation</b>	<b>Term</b>
FP	Fully Protected Species
FPPA	Farmland Protection Policy Act
FT	Federal Threatened
FTA	Federal Transit Administration
G	Global
GHG	greenhouse gas
GMO	Growth Management Ordinance
GO	general obligation
gpcd	gallons per capita per day
GPD	gallons per day
gpd/ft <sup>2</sup>	gallons per day per square foot
gpm	gallons per minute
GSA	Groundwater Sustainability Agency
GSP	Groundwater Sustainability Plan
GSWC	Golden State Water Company
GSWCCR	Golden State Water Company Cypress Ridge
GWP	global warming potential
H <sub>2</sub> S	hydrogen sulfide
HAP	hazardous air pollutant
HASLO	Housing Authority of the City of San Luis Obispo
HAZPOWER	Hazardous Waste Operations and Emergency Response
HCP	Habitat Conservation Plan
HDD	horizontal directional drilling
HE	high-efficiency
HFC	hydrofluorocarbon
HOA	Homeowner's Association
hp	horsepower
HRT	hydraulic retention time
HSC	California Health and Safety Code
HUD	U.S. Department of Housing and Urban Development
HVAC	heating, ventilation, and air conditioning
Hz	Hertz
IFC	International Fire Code
in/sec	inches per second
IPaC	Information for Planning and Consultation
IRWMP	Integrated Regional Water Management Plan
IS/NOP	Initial Study/Notice of Preparation
ITP	Incidental Take Permit
IWMA	Integrated Waste Management Authority

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<b>Acronym / Abbreviation</b>	<b>Term</b>
JADU	Junior Accessory Dwelling Unit
kBTU	kilo British thermal units
KVA	kilo-volt-ampere
KVA	Key Viewing Area
kWh	kilowatt-hour
KWI	Key Wells Index
LAFCO	Local Agency Formation Commission
lbs	pounds
lbs/ft <sup>2</sup> /hr	pounds per square foot per hour
Ldn	day-night average sound level
Leq	equivalent continuous sound level
LHMP	Local Hazard Mitigation Plan
LID	Low Impact Development
L <sub>max</sub>	Maximum Noise Level
L <sub>min</sub>	Minimum Noise Level
LMUSD	Lucia Mar Unified School District
LNG	liquefied natural gas
LOS	Levels of Service
LRA	local responsibility area
LUCE	Land Use and Circulation Elements
LUO	Land Use Ordinance
MBTA	Migratory Bird Treaty Act
MDZ	Mining Disclosure Zones
mgd	million gallons per day
MJHMP	Multi-Jurisdictional Hazard Mitigation Plan
MKN	MKN & Associates, Inc.
MLRA	Major Land Resource Area
MLSS	mixed liquor suspended solids
MMBTU	million British thermal units
MMF	Maximum Month Flow
MMT	million metric tons
MP	Master Plan
mpg	miles per gallon
mph	miles per hour
MPO	Metropolitan Planning Organization
MRA	Mineral Resource Area
MRZ	Mineral Resource Zone
MUO	Memorandum of Understanding
N <sub>2</sub> O	nitrous oxide

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<b>Acronym / Abbreviation</b>	<b>Term</b>
NA	Not Available
NAAQS	National Ambient Air Quality Standards
NAHC	California Native American Heritage Commission
NBD	Neighborhood
NCMA	Northern Cities Management Area
NCSD	Nipomo Community Services District
NCTC	Northern Chumash Tribal Council
NESHAPs	National Emission Standards for Hazardous Air Pollutants
NF <sub>3</sub>	nitrogen trifluoride
NFIP	National Flood Insurance Program
NFPA	National Fire Protection Association
NHD	National Hydrography Database
NHSTA	National Highway Traffic Safety Administration
NMMA	Nipomo Mesa Management Area
NMWCA	Nipomo Mesa Water Conservation Area
NO <sub>2</sub>	nitrogen dioxide
NOA	Notice Occurring Asbestos
NOC	Notice of Completion
NOI	Notice of Intent
NOx	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NPPA	Native Plant Protection Act
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NRPA	National Recreation and Park Association
NSWP	Nipomo Supplemental Water Project
NWI	National Wetlands Inventory
O <sub>3</sub>	ozone
OEHHA	California Office of Environmental Health and Hazard Assessment
OES	Office of Emergency Services
OFR	overflow rate
OPR	California Governor's Office of Planning and Research
OSHA	Occupational Safety and Health Administration
PA	amplified public address
PAHS	polynuclear aromatic hydrocarbons
Pb	lead
PBDB	Palaeobiological Database
P-C Region	San Luis Obispo-Santa Barbara Production-Consumption Region

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<b>Acronym / Abbreviation</b>	<b>Term</b>
PCBs	polychlorinated biphenyls
PCC	Portland cement concrete
pcf	per cubic foot
PCH	Proposed Federal Critical Habitat
PCR	Post Construction Requirement
PDF	peak day flow
PF	Public Facilities land use designation
PFC	perfluorocarbon
PG&E	Pacific Gas and Electric Company
PGA <sub>m</sub>	Peak Mean Ground Acceleration
PHF	peak hour flow
PM	particulate matter
PM Report	Particulate Matter Report
PM <sub>10</sub>	particulate matter less than 10 microns in diameter
PM <sub>2.5</sub>	particulate matter less than 2.5 microns in diameter
Porter-Cologne Act	Porter-Cologne Water Quality Control Act
ppb	parts per billion by volume
ppd	pounds per day
pph	pounds per hour
ppm	parts per million by volume
PPV	peak particle velocity
PRC	Public Resources Code
PRMMP	Paleontological Resources Monitoring and Mitigation Plan
project	Dana Reserve Specific Plan Conditional Use Permit, Vesting Tentative Tract Map, and Development Agreement
psf	per square foot
PV	solar photovoltaic
PVC	polyvinyl chloride
Qoa	aged older alluvial deposits
Qoe	old eolian deposits
Qya	younger alluvial deposits
RAS	Return Activated Sludge
RCRA	Resource Conservation and Recovery Act
RE	Renewable Energy Overlay
RHNA	Regional Housing Needs Allocation
RL	Rural Lands land use designation
RMF	Residential Multi-Family land use designation
RMP	Risk Management Plan
RMS	Resource Management System

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<b>Acronym / Abbreviation</b>	<b>Term</b>
ROG	reactive organic gas
ROW	right-of-way
RPS	Renewables Portfolio Standard
RR	Rural Residential land use designation
RS	Rural Suburban land use designation
RSF	Residential Single-Family land use designation
RTA	Regional Transit Authority
RTP	Regional Transportation Plan
RTP/SCS	<i>County of San Luis Obispo 2019 Regional Transportation Plan/Sustainable Communities Strategy</i>
RTPA	Regional Transportation Planning Agency
RV	recreational vehicle
RWQCB	Regional Water Quality Control Board
S	State
SA	Special Animal
SAA	Streambed Alteration Agreement
SAF	State Alternative Fuels
SAFE	Safer Affordable Fuel-Efficient [Vehicles Rule]
Santa Maria Basin	Santa Maria River Valley Groundwater Basin
SARA	Superfund Amendments and Reauthorization Act
SB	Senate Bill
SCAG	Southern California Association of Governments
SCAP	South County Area Plan
SCCAB	South Central Coast Air Basin
SCE	State Candidate Endangered
SCH	State Clearinghouse
SCM	Stormwater Control Measure
SCS	Sustainable Communities Strategy
SCT	State Candidate Threatened
SDWA	Safe Drinking Water Act
SE	State Endangered
SEFs	solar electrical facilities
sf	square foot
SF <sub>6</sub>	sulfur hexafluoride
SFP	School Facility Program
SGMA	Sustainable Groundwater Management Act
SHMA	Seismic Hazards Mapping Act
SJVAPCD	San Joaquin Valley Air Pollution Control District
SLCP	Short-lived climate pollutants
SLOAPCD	San Luis Obispo Air Pollution Control District

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<b>Acronym / Abbreviation</b>	<b>Term</b>
SLOCCFSC	San Luis Obispo County Community Fire Safe Council
SLOCOG	San Luis Obispo Council of Governments
SLOFC&WCD	San Luis Obispo County Flood Control and Water Conservation District
SLOLAFCO	San Luis Obispo Local Agency Formation Commission
SLORTA	San Luis Obispo Regional Transit Authority
SMARA	Surface Mining and Reclamation Act
SMGB	State Mining and Geology Board
SMVMA	Santa Maria Valley Management Area
SO <sub>2</sub>	sulfur dioxide
SO <sub>4</sub> <sup>2-</sup>	Sulfates
SoCalGas	Southern California Gas Company
SOI	Sphere of Influence
South County	County of San Luis Obispo South County Planning Area
SOV	single occupancy vehicle
SOx	sulfur oxides
SP	service population
SR	State Route
SRA	State Responsibility Area
SRT	solid retention time
SSC	Species of Special Concern
ST	State Threatened
STC	Sound Transmissions Class
STP	shovel test pit
SVP	Society of Vertebrate Paleontology
SWCA	SWCA Environmental Consultants
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
TCR	Tribal Cultural Resource
TDC	Transfer of Development Credit
TDH	total dynamic head
TDM	transportation demand management
TIS	Transportation Impact Study
Tmc	Monterey Formation, siliceous shale
TMDL	total maximum daily load
Tob	Obispo Formation, Mafic volcanic rocks
TOG	Total Organic Gases
Tot	Obispo Formation, Tuff
TPRP	Tree Protection, Replacement, and Habitat Restoration Plan



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<b>Acronym / Abbreviation</b>	<b>Term</b>
TPZ	tree protection zone
TSCA	Toxic Substances Control Act
TSM	transportation system management
UFP	ultrafine particles
URL	urban reserve line
US	U.S. Route
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USDOT	U.S. Department of Transportation
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
USNVC	U.S. National Vegetation Classification
UWMP	Urban Water Management Plan
VCM	Vinyl chloride
VMT	vehicle miles traveled
VOC	volatile organic compounds
VTTM	Vesting Tentative Tract Map
WDR	waste discharge requirement
WEAP	Worker Environmental Awareness Program
WET	Worker Environmental Training
WL	Watch List
WMWC	Woodlands Mutual Water Company
WMZ	Watershed Management Zone
WRF	Water Reclamation Facility
WSA	Water Supply Analysis
WSCP	Water Shortage Contingency Plan
WUI	wildland-urban interface
WWTF	Wastewater Treatment Facility
XPI	Extended Phase I
ytt	ak ti'vu ti'vu yak ti'hini
ZEV	zero-emission vehicle
ZNE	zero net energy
µg/m <sup>3</sup>	micrograms per cubic meter

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