



CALIFORNIA STATE UNIVERSITY  
**LONG BEACH**



# **California State University Long Beach Master Plan Update**

**DRAFT ENVIRONMENTAL  
IMPACT REPORT**



**STATE CLEARINGHOUSE  
NO. 2022040460**

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**Draft Environmental Impact Report**  
**California State University, Long Beach**  
**Master Plan Update**  
**State Clearinghouse No. 2022040460**



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## ACRONYMS AND ABBREVIATIONS

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°C	degrees Celsius
AB	Assembly Bill
ABM	activity/tour-based model
ACC	Advanced Clean Cars program
AF	acre-feet
AQMP	Air Quality Management Plan
ARMDP	Archaeological Resources Monitoring and Discovery Plan
ASI	Associated Students, Inc.
AY	academic year
Basin	South Coast Air Basin
BAU	business as usual
BERD	Built Environment Resource Directory
BMP	best management practices
BTU	British thermal unit
BUG	backlight, uplight, and glare
CAAP	Climate Action and Adaptation Plan
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CAL FIRE	California Department of Forestry and Fire Protection
CALGreen	California Green Building Standards Code, Title 24, Part 11
California Register	California Register of Historical Resources
Cal/OSHA	California Occupational Safety and Health Administration
CalRecycle	California Department of Resources Recycling and Recovery
Caltrans	California Department of Transportation
CA MUTCD	California Manual on Uniform Traffic Control Devices
CAPS	Nursing Building Renovation
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCR	California Code of Regulations
CCRPA	California Cultural Resources Preservation Alliance, Inc.
CD	Construction Development

CDC	Child Development Center
CDFW	California Department of Fish and Wildlife
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFC	chlorofluorocarbons
CFGF	California Fish and Game Code
CFR	Code of Federal Regulations
cfs	cubic feet per second
CGS	California Geological Survey
CH <sub>4</sub>	methane
CNEL	Community Noise Equivalent Level
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CO	carbon monoxide
CPUC	California Public Utilities Commission
CRHR	California Register of Historical Resources
CRPR	California Rare Plant Ranks
CSU	The California State University
CSULB	California State University, Long Beach
CTR	Criteria and Toxics Emission Reporting
CWA	Clean Water Act
dB	decibel
dBA	A-weighted decibel
DD	Design Development
DOORS	Diesel Off-Road Online Reporting System
DPM	Diesel Particulate Matter
DWR	Department of Water Resources
EIR	Environmental impact report
EISA	Energy Independence and Security Act
EMFAC	EMission FACtor
EOP	Emergency Operations Plan (for CSULB)
EPA	US Environmental Protection Agency
EV	electric vehicle
FCAA	Federal Clean Air Act

FEMA	Federal Emergency Management Agency
FESA	Federal Endangered Species Act
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Maps
FTA	Federal Transit Administration
FTE	full-time-equivalent
FTES	full-time-equivalent student
FY	fiscal year
GHG	greenhouse gas
GSA	groundwater sustainability agencies
GSF	gross square feet
GSP	groundwater sustainability plans
GWh	gigawatt-hours
GWP	global warming potential
HABS	Historic American Buildings Survey
HC	headcount
HFC	hydrofluorocarbons
HIN	High Injury Network
HRL	Housing and Residential Life
HVAC	heating, ventilation, and air conditioning
Hz	hertz
IEPR	Integrated Energy Policy Report
iPaC	Information for Planning and Consultation
kBtu	kilo British thermal units
km	kilometer
kV	kilovolt
kw	kilowatt
kWh	kilowatt-hours
LACFCD	Los Angeles County Flood Control District
LACSD	Los Angeles County Sanitation Districts
LBFD	Long Beach Fire Department
LBMC	Long Beach Municipal Code
LBPD	Long Beach Police Department
LBPL	Long Beach Public Library
LBPRM	Long Beach Parks, Recreation and Marine Department

LBUSD	Long Beach Unified School District
LBWD	Long Beach Water Department
Ldn	Day-Night average
LEED	Leadership in Energy and Environmental Design
Leq	Equivalent sound level
LEV	Low-Emission Vehicle
LID	low-impact development
Lmax	Maximum sound level
Lmin	Minimum sound level
LOS	level of service
LST	localized significance thresholds
MBTA	Migratory Bird Treaty Act
MCL	maximum contaminant levels
MG	million gallons
mgd	million gallons per day
MND	mitigated negative declaration
MPO	metropolitan planning organization
MS4	multiple separate storm sewer system
MMTCO <sub>2e</sub>	million metric tons carbon dioxide equivalents
MW	megawatt
MWh	megawatt-hours
MWD	Metropolitan Water District
N/A	not applicable
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
NFIP	National Flood Insurance Program
NHMLA	Natural History Museum of Los Angeles County
NHPA	National Historic Preservation Act
NHTSA	National Highway Traffic Safety Administration
NMFS	National Marine Fisheries Service
NO <sub>2</sub>	nitrogen dioxide
NOx	nitrogen oxides
NOP	Notice of Preparation

NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
NWI	National Wetlands Inventory
O <sub>3</sub>	ozone
OCIP	Owner Controlled Insurance Program Safety Manual
OCTA	Orange County Transportation Authority
OEHHA	Office of Environmental Health Hazard Assessment
OPR	California Governor's Office of Planning and Research
OSFM	Office of the State Fire Marshal
PCH	Pacific Coast Highway
PERP	Portable Equipment Registration Program
PDF	Project Design Features
PFC	perfluorocarbons
PM	particulate matter
ppb	parts per billion
ppm	parts per million
PPV	peak particle velocity
PRC	Public Resources Code
PST	Pacific Standard Time
RFS	Renewable Fuel Standard
RH	relative humidity
RHNA	Regional Housing Needs Allocation
RMS	root mean square
ROG	reactive organic gases
RPS	California Renewables Portfolio Standard
RTP/SCS	2020-2045 Regional Transportation Plan/Sustainable Communities Strategy
RWQCB	Regional Water Quality Control Boards
SAFE	Safer Affordable Fuel-Efficient
SB	Senate Bill
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SCCIC	South Central Coastal Information Center
SCS	Sustainable Communities Strategy

SENEL	Single Event Noise Exposure Limits
SF	square foot
SF <sub>6</sub>	sulfur hexafluoride
SHPO	State Historic Preservation Officer
SJVAPCD	San Joaquin Valley Air Pollution Control District
SLCP	short-lived climate pollutants
SLF	Sacred Lands File
SO <sub>2</sub>	sulfur dioxide
SoCalGas	Southern California Gas Company
SORE	Small Off-Road Engine
SO <sub>x</sub>	sulfur oxides
SR	State Route
SRA	Source Receptor Area
Standards	Secretary of the Interior's Standards for Rehabilitation
SVP	Society of Vertebrate Paleontology
SWITRS	Statewide Integrated Traffic Records System
SWMP	Storm Water Management Plan
SWPPP	stormwater pollution prevention plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminants
TDM	transportation demand management
TIMS	Transportation Injury Mapping System
TISM	Transportation Impact Study Manual
TMDL	total maximum daily loads
µg/m <sup>3</sup>	micrograms per cubic meter
UPD	University Police Department
USACE	US Army Corps of Engineers
USDOT	US Department of Transportation
USEPA	US Environmental Protection Agency
USFWS	US Fish and Wildlife Service
USU	University Student Union
VdB	vibration decibels
VMT	vehicle miles traveled
VOC	volatile organic compounds
Water Board	State Water Resources Control Board

WDR	Waste Discharge Requirements
WEAP	Workers Environmental Awareness Program
WL	Watch List
XPI	Extended Phase I
ZEV	zero-emission vehicle