

FINAL

Gerald Desmond Bridge Replacement Project

Environmental
Impact Report /
Environmental
Assessment
&
Application
Summary
Report



Prepared for



Port of
LONG BEACH
The Green Port



Prepared by



JULY 2010

The environmental review, consultation, and any other action required in accordance with applicable Federal laws for this project is being, or has been, carried out by Caltrans under its assumption of responsibility pursuant to 23 U.S.C. 327.

Gerald Desmond Bridge Replacement Project

FINAL ENVIRONMENTAL IMPACT REPORT

**Submitted Pursuant to Division 13, California Public Resources Code
California Environmental Quality Act (CEQA)**

The Port of Long Beach



Richard D. Cameron
Director of Environmental Planning
The Port of Long Beach

July 22, 2010
Date

CALIFORNIA DEPARTMENT OF TRANSPORTATION
FINDING OF NO SIGNIFICANT IMPACT (FONSI)
FOR
GERALD DESMOND BRIDGE REPLACEMENT PROJECT

The California Department of Transportation (Caltrans) has determined that the North-Side Alignment Alternative will have no significant impact on the human environment. This FONSI is based on the attached EA, which has been independently evaluated by Caltrans and determined to adequately and accurately discuss the need, environmental issues, and impacts of the proposed project and appropriate mitigation measures. It provides sufficient evidence and analysis for determining that an EIS is not required. Caltrans takes full responsibility for the accuracy, scope, and content of the attached EA (and other documents as appropriate).

The environmental review, consultation, and any other action required in accordance with applicable Federal laws for this project is being, or has been, carried-out by Caltrans under its assumption of responsibility pursuant to 23 U.S.C. 327.

Notwithstanding any other provision of law, a claim arising under federal law seeking judicial review of a permit, license, or approval issued by a federal agency for a highway or public transportation project shall be barred unless it is filed within 180 days after publication of a notice in the *Federal Register* announcing that the permit, license, or approval is final pursuant to the law under which the agency action is taken, unless a shorter time is specified in the federal law pursuant to which judicial review is allowed.

Date of Approval

Ron Kosinski
Deputy District Director
Division of Environmental Planning District 7
California Department of Transportation

Gerald Desmond Bridge Replacement Project

**REVISED DRAFT
ENVIRONMENTAL IMPACT REPORT/ENVIRONMENTAL ASSESSMENT**

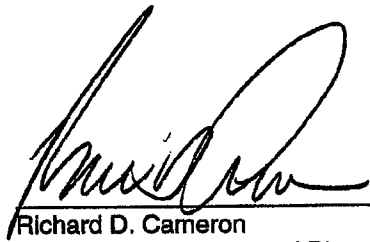
The Port of Long Beach

and

STATE OF CALIFORNIA
Department of Transportation

Submitted Pursuant to (State) Division 13, California Public Resources Code
and (Federal) 42 U.S.C. 4332(2)(c)

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assumption of responsibility pursuant to 23 U.S.C. 327.



Richard D. Cameron
Director of Environmental Planning
The Port of Long Beach

1/11/10
Date



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LIST OF ACRONYMS AND ABBREVIATIONS

AADT	annual average daily traffic
AAM	annual arithmetic mean
AASHTO	American Association of State and Highway Transportation Officials
AB	Assembly Bill
ABIH	American Board of Industrial Hygiene
AC	asphalt concrete
ACHP	Advisory Council on Historic Preservation
ACM	asbestos-containing material
ACTA	Alameda Corridor Transportation Authority
ADA	Americans with Disabilities Act
ADL	aerially deposited lead
ADT	average daily traffic
AEP	Association of Environmental Professionals
AIHA	American Industrial Hygiene Association
AQMD	Air Quality Management District
AQMP	Air Quality Management Plan
AQTS	Air Quality Technical Study
APCD	Air Pollution Control District
APE	area of potential effects
ARPA	Archaeological Resources Protection Act
ARRA	American Recovery and Reinvestment Act
ASF	age sensitivity factors
ASR	Application Summary Report
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
ATA	American Trucking Association
BEP	Business Emergency Plan
bgs	below ground surface
BHC	Board of Harbor Commissioners
BMPs	best management practices
BOD	biochemical oxygen demand
BP	British Petroleum
BSA	Biological Survey Area
BTA	Bicycle Transportation Account Compliance Document
BWHRA	Bay-Wide Health Risk Assessment
°C	degrees Celsius
CAA	Clean Air Act
CAAs	Clean Air Act Amendments
CAAP	Clean Air Action Plan
CAAQS	California Ambient Air Quality Standards
CA FID	California Facility Index Database
Cal-EPA	California Environmental Protection Agency
Cal/OSHA	California/Occupational Safety and Health Administration
Cal-Sites	California Sites
Caltrans	California Department of Transportation
CAP	Climate Action Program
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCAR	California Climate Action Registry
CCC	California Coastal Commission
CC/GHG Plan	Climate Change/Greenhouse Gas Strategic Plan
CCR	California Code of Regulations
CCTV	closed-circuit television
CDFG	California Department of Fish and Game
CDMG	California Division of Mines and Geology

List of Acronyms and Abbreviations

CEC	California Energy Commission
CEIDARS	California Emission Inventory and Reporting System
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CERFA	Community Environmental Response Facilitation Act of 1992
CESA	California Endangered Species Act
CFCs	chlorofluorocarbons
CFP	California fully protected species
CFR	<i>Code of Federal Regulations</i>
CH ₄	methane
CHMIRS	California Hazardous Material Incident Reporting System
CIH	Certified Industrial Hygienist
CLA	Compton-Los Alamitos
cm	centimeter
CMA	Critical Movement Analysis
CMP	Congestion Management Plan
CNDDB	California Natural Diversity Database
CNEL	community noise equivalent level
CNPS	California Native Plant Society
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
COLB	City of Long Beach
CORRACTS	Corrective Action Tracking System
CORSIM	Traffic Software Integrated System Corridor Simulation
CORTESE	Cortese Hazardous Waste and Substances Site List
CPI	Consumer Price Index
CPUC	California Public Utilities Commission
CRHR	California Register of Historical Resources
CSC	California Department of Fish and Game Species of Concern
CSLC	California State Lands Commission
CSO	Construction Safety Orders
CSSC	California Species of Special Concern
CTC	California Transportation Commission
CTD	conductivity, temperature, and depth
CTP	Clean Trucks Program
cu yd	cubic yard
CVC	California Vehicle Code
CWA	Clean Water Act
CZMA	Coastal Zone Management Act
dB	decibel
dBA	A-weighted decibel
DDT	dichloro-diphenyl-trichloroethane
DE	diesel exhaust
DMI	Danish Maritime Institute
DMV	Department of Motor Vehicles
DO	dissolved oxygen
DOGGR	California Department of Conservation, Division of Oil, Gas, and Geothermal Resources
DOT	United States Department of Transportation
DPM	diesel particulate matter
DSAs	disturbed soil areas
DTR	drayage truck registry

DTSC	Department of Toxic Substances Control
EA	Environmental Assessment
EB	eastbound
EBR	eastbound right
EBTR	eastbound through right
EDR	Environmental Data Resources, Inc.
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EO	Executive Order
EPA	U.S. Environmental Protection Agency
EPFT	Elysian Park Fold and Thrust Belt
ERNS	Emergency Response and Notification System
ESA	Federal Endangered Species Act
°F	degrees Fahrenheit
FBI	Federal Bureau of Investigation
FEE	functional-evaluation earthquake
FEMA	Federal Emergency Management Agency
FEU	forty-foot equivalent unit
FHWA	Federal Highway Administration
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FIRM	Flood Insurance Rate Map
FMC	Federal Maritime Commission
FONSI	Finding of No Significant Impact
FSTIP	Federal Statewide Transportation Improvement Program
ft	feet
FTA	Federal Transit Administration
FY	fiscal year
GARVEE	Grant Anticipation Vehicle Revenue
GHG	greenhouse gas
g/hp-hr	gram per horsepower-hour
GPP	Green Port Policy
GWh	gigawatt-hours
GWP	global warming potential
ha	hectares
HAPs	hazardous air pollutants
HARP	Hotspots Analysis and Reporting Program
HCM	Highway Capacity Manual
HEPA	high efficiency particulate air
HFCs	hydrofluorocarbons
HHI	health hazard index
HIA	Health Impact Assessment
HIST UST	Historic UST
HOV	high-occupancy vehicle
HRA	Health Risk Assessment
HPSR	Historic Properties Survey Report
HRER	Historic Resources Evaluation Report
I-110	Interstate 110
I-405	Interstate 405
I-710	Interstate 710
ICF	Infrastructure Cargo Fee
ICTF	Intermodal Container Transfer Facility
ICU	intersection capacity utilization
IHA	Incidental Harassment Authorization
in.	inch
in/yr	inches per year
IP	Port-related Industrial zone
IPCC	Intergovernmental Panel on Climate Change

List of Acronyms and Abbreviations

IR	Installation Restoration
IRIS	Integrated Risk Information System
ISA	Initial Site Assessment
ISTEA	Intermodal Surface Transportation Efficiency Act of 1991
ITE	Institute of Traffic Engineers
ITS	Intelligent Transportation System
IWG	Interagency Working Group on Environmental Justice
kg/mo	kilograms per month
km	kilometers
km/hr	kilometers per hour
kts	knots
kV	kilovolt
kW	kilowatt
kWh	kilowatt-hours
LACFCD	Los Angeles County Flood Control District
LADOT	Los Angeles Department of Transportation
LADWP	Los Angeles Department of Water and Power
LAFD	Los Angeles Fire Department
LAHD	Los Angeles Harbor Department
LBFD	Long Beach Fire Department
LBGO	Long Beach Gas and Oil Department
LBGP	Long Beach General Plan
LBGS	Long Beach Generating Station
LBNSY	Long Beach Naval Shipyard
LBP	lead-based paint
lbs/day	pounds per day
LBT	Long Beach Transit
LBWD	Long Beach Water District
LCFS	low carbon fuel standard
LCPs	Local Coastal Plans
LED	light-emitting diode
L_{eq}	energy equivalent sound level
L_{max}	maximum sound level
LNG	liquefied natural gas
LOS	level of service
LPR	license plate recognition
LST	localized significance threshold
LT	left through
LUST	leaking underground storage tank
L_{xx}	percentile-exceeded sound level
m	meters
M	Richter Magnitude
MATES-II	Multiple Air toxics Exposure Study
MBTA	Migratory Bird Treaty Act
MCE	maximum credible earthquake
MCGMAP	Multi County Goods Movement Action Plan
MEP	maximum extent practicable
Metro	Los Angeles County Metropolitan Transportation Authority
mgd	million gallons per day
$\mu\text{g/L}$	micrograms per liter
mg/L	milligrams per liter
$\mu\text{g/m}^3$	micrograms per cubic meter
mg/m^3	milligrams per cubic meter
MGP	Manufactured Gas Plant
MHW	mean high water
MHWL	mean high water level
mi	miles

ML	local magnitude
MLD	most likely descendent
MLLW	mean lower low water datum
µm	micron
mm	millimeter
mm/yr	millimeters per year
MMRP	Mitigation Monitoring and Reporting Program
M&N	Moffatt & Nichol
MND	Mitigated Negative Declaration
mpg	miles per gallon
mph	miles per hour
MPO	Metropolitan Planning Organization
MSATs	mobile source air toxics
MSL	mean sea level
MSRC	Marine Spill Response Building
MTA	Metropolitan Transportation Authority
MTBE	methyl tributyl ethylene
MTG	Mercator Transport Group
MW	megawatt
MY	model year
NAAQS	National Ambient Air Quality Standards
NAC	noise abatement criteria
NAHC	Native American Heritage Commission
NATA	National Air Toxics Assessment
NB	northbound
NBL	northbound left
NBR	northbound right
NBT	northbound through
NBTL	northbound through/left
NBTR	northbound through/right
NCHRP	National Cooperative Highway Research Program
NEPA	National Environmental Policy Act
NFRAP	No Further Remedial Action Planned
NHPA	National Historic Preservation Act
NIOSH	National Institute for Occupational Safety and Health
NISZ	Newport-Inglewood Structural Zone
NLEV	national low-emission vehicle
nm	nautical miles
NMHC	non-methane hydrocarbons
N ₂ O	nitrous oxide
NO ₂	nitrogen dioxide
NO _x	nitrogen oxide
NOAA	National Oceanic and Atmospheric Administration
NOC	Notice of Construction
NOI	Notice of Intent
NOIS	Notice of Initiation of Studies
NOP	Notice of Preparation
NPDES	National Pollutant Discharge Elimination System
NPL	National Priority List
NRDC	National Resources Defense Council
NRHP	National Register of Historic Places
NTE	not-to-exceed
NTU	nephelometric turbidity units
O ₃	ozone
OCR	optical character recognition
OEHHA	Office of Environmental Health Hazard Assessment
OGVs	ocean-going vessels

List of Acronyms and Abbreviations

O&M	operating and maintenance
OPR	Office of Planning and Research
OSHA	Office of Safety and Health Administration; Occupational Safe and Health Act; Occupational Safety and Health Administration
PA	Programmatic Agreement
PAHs	polycyclic aromatic hydrocarbons
Pb	lead
PCBs	polychlorinated biphenyls
PCC	Portland cement concrete
PCE	passenger car equivalent
PCH	Pacific Coast Highway
pc/mi/ln	passenger cars per mile per lane
PDT	Project Development Team
PEAR	Preliminary Environmental Analysis Report
PELs	Permissible Exposure Limits
PFCs	perfluorocarbons
PFMMP	Peregrine Falcon Monitoring and Mitigation Program
PHT	Puente Hills Thrust
PID	photoionization detector
PLA	Project Labor Agreement
PM	particulate matter
PM _{2.5}	particulates less than 2.5 microns in diameter
PM ₁₀	particulates less than 10 microns in diameter
PMP	Port Master Plan
POAQC	Projects of Air Quality Concern
POLA	Port of Los Angeles
POLB	Port of Long Beach
POM	polycyclic organic matter
Port	Port of Long Beach
Ports	Port of Long Beach and Port of Los Angeles
PPE	personal protective equipment
ppm	parts per million
ppt	parts per thousand
PRC	Public Resources Code
project	Gerald Desmond Bridge Replacement Project
PSR	Project Study Report
PWCT	Plains West Coast Terminals, LLC
RAP	Relocation Assistance Program
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
RCRIS-LgGen	Resource Conservation and Recovery Information System Large Generator Database
RCRIS-SmGen	Resource Conservation and Recovery Information System Small Generator Database
RECs	recognized environmental conditions; renewable energy certificates
RELs	reference exposure levels
RFCS	Request for Concepts and Solutions
RFG	reformulated gasoline
RFP	Request for Proposals
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
ROI	region of influence
ROW	right-of-way
RPM	radiation portal monitors
RTG	rubber tire gantry
RTIP	Regional Transportation Improvement Program

RTP	Regional Transportation Plan
RV	recreational vehicle
RVP	Reid vapor pressure
RWQCB	Regional Water Quality Control Board
SAFETEA-LU	Safe, Accountable, Flexible, and Efficient Transportation Equity Act: A Legacy for Users
SAP	Sampling and Analysis Plan
SB	southbound; State Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SDC	Caltrans Seismic Design Criteria
SEE	safety-evaluation earthquake
SET	supplemental emissions test
SF ₆	sulfur hexafluoride
SHOPP	State Highway Operation and Protection Plan
SHPO	State Historic Preservation Office
SHS	State Highway System
SIP	State Implementation Plan
SLIC	spills, leaks, investigation, and cleanup
SMB	Santa Monica Bay
SO ₂	sulfur dioxide
SO ₄	sulfates
SPBS	San Pedro Bay Standards
sq ft	square feet
sq km	square kilometer
sq mi	square mile
SR	State Route
SRA	source/receptor areas
SS	settleable solids
STIP	State Transportation Improvement Program
Strategic Plan	Metro Bicycle Transportation Strategic Plan
SWEEPS	Statewide Evaluation and Environmental Planning System
SWLF	Solid Waste and Landfill Database
SWMP	Stormwater Management Plan
SWRCB	State Water Resources Control Board
SWPPP	Storm Water Pollution Prevention Plan
TACs	toxic air contaminants
TAP	Technical Advisory Panel
TCIF	Trade Corridor Infrastructure Funds
TCMs	Transportation Control Measures
TCWG	Transportation Conformity Working Group
TDC	targeted design constituent
TEA-21	Transportation Equity Act for the 21 st Century
TES	threatened, endangered, or special-status
TEU	20-foot equivalent unit
THB	THUMS-Huntington Beach
TIGER	Transportation Investment Generating Economic Recovery
TIP	Transportation Improvement Plan
TMDL	total maximum daily load
TMP	Transportation Management Plan
TOG	total organic gas
TPH	total petroleum hydrocarbon
TR	through right
TRB	Transportation Research Board

List of Acronyms and Abbreviations

TSA	Department of Homeland Security Transportation Security Division
TSCA	Toxic Substances Control Act
TSD	treat, store, or dispose (hazardous materials)
T/SP	top and side pick
TSS	total suspended solids
TTI	Total Terminal, Inc.
TWG	Technical Working Group
UFP	ultrafine particles
ULCS	Ultra Large Container Vessel
UPRR	Union Pacific Railroad
USACE	United States Army Corps of Engineers
U.S.C.	United States Code
USCG	United States Coast Guard
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	underground storage tank
V/C	volume/capacity
VCP	Voluntary Cleanup Program
VDECS	verified diesel emission control system
VHT	vehicle hours traveled
VMT	vehicle miles traveled
VOCs	volatile organic chemicals
vpd	vehicles per day
VSRP	Vessel Speed Reduction Program
WB	westbound
WCI	Western Regional Climate Action Initiative
WDR	waste discharge requirement
WPCs	Water Pollution Controls
ZECMS	Zero Emission Container Mover System
ZOI	zone of influence