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Glossary and Acronyms

Glossary

Action Plan: A document prepared by a Regional Transportation Planning Committee that includes: (1) multi-modal traffic service objectives that use a quantifiable measure of effectiveness and include a target date for attaining the objective; (2) specific actions to be implemented by each participating jurisdiction; (3) requirements for consultation on environmental documents among participating localities; and (4) procedures for review of impacts resulting from proposed local General Plan amendments that have the potential to influence the effectiveness of adopted Action Plans.

Authority: Contra Costa Transportation Authority

Basin Plan: A plan where the San Francisco Bay RWQCB establishes regulatory standards and objectives for water quality in the bay.

Capitol Corridor: Amtrak intercity rail service—seven daily round-trip trains supported by connecting feeder bus services—between Auburn and San Jose with stops Martinez and Richmond.

Central County: The sub-area in Contra Costa County located in the valleys of central Contra Costa and containing the cities of Concord, Walnut Creek, Pleasant Hill, Martinez, and Clayton.

Comprehensive Transportation Project List: The complete listing of proposed transportation projects in Contra Costa County

Congestion Management Program: Congestion Management Programs are required by State law to include a designated network of CMP Routes, traffic level-of-service standards, a performance element, a 7-year capital improvement program, a program to analyze land use, and a travel demand element.

Contra Costa Countywide Comprehensive Transportation Plan: The document that establishes CCTA's vision, goals and strategies for managing the impact of growth and improving mobility on countywide streets, highways, transit and bicycle and pedestrian facilities.

Contra Costa Transportation Authority: The governmental agency that administers Measure C and Measure J transportation improvement and growth management programs and serves as the Congestion Management Agency for Contra Costa.

Countywide Model: The CCTA's computerized travel demand forecasting model, which is consistent with MTC's Model, and which operates using the TransCAD® software developed by Caliper Corporation.

East Contra Costa Habitat Conservation Plan Association: A joint exercise of powers authority formed by the Cities of Brentwood, Clayton, Oakley and Pittsburg, Contra Costa County, Contra Costa Water District and the East Bay Regional Park District.

East County: The sub-area in Contra Costa County located east of Mt. Diablo and containing the cities of Pittsburg, Antioch, Brentwood, and Oakley.

eBART: The proposed extension of rail transit service into eastern Contra Costa county using DMU trains.

Greenhouse Gases: Emissions such as CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆ which to contribute to global warming.

Growth Management Program: A component of both Measure C and Measure J intended to ensure that new development is accompanied by adequate infrastructure and services as well as to maintain local autonomy over land use decisions and encourage regional cooperation and dialogue.

Lamorinda: The sub-area in Contra Costa County contained within the eastern foothills of the East Bay Hills that is comprised of the cities of Lafayette, Moraga, and Orinda.

Measure C: The half-cent sales tax established in 1988 to fund transportation improvements and growth management programs in Contra Costa.

Measure J: The extension, approved in 2004, of the Measure C half-cent sales tax to fund transportation improvements and growth management programs in Contra Costa from 2009 through 2034.

Metropolitan Transportation Commission: The regional transportation planning agency established by the State of California for the nine-county San Francisco Bay Area region; MTC also serves as the Metropolitan Planning Organization or MPO under federal legislation.

Multi-modal Transportation Service Objective: Measures that evaluate program impacts and achievements in relation to the goals for each Route of Regional Significance.

Paratransit: On-demand transit services for the elderly, handicapped and others with special transportation needs.

Performance Standards: A statement representing a commitment by a public agency to attain a specified level or quality of performance through its programs and policies.

Regional Transportation Improvement Program: Developed by MTC and subsequently incorporated into the larger STIP. RTIP is the main process for short-term programming and funding of transportation projects. Inclusion in the STIP is essential for most federal and state funding.

Regional Transportation Plan: A long-range plan prepared by MTC for the Bay Area. The RTP includes regional transportation issues, goals and objectives, as well as the projects, programs, and actions necessary to implement the plan. In addition, the RTP provides the overall direction for and the projects included in the RTIP.

Regional Transportation Planning Committee: The four committees identified in Measure C as the key forum for participating in the cooperative, multi-jurisdictional planning process. The RTPCs are

charged with, among other things, preparing and updating the Action Plans for Routes of Regional Significance. There are four RTPCs: WCCTAC, TRANSPAC, SWAT, and TRANSPLAN.

Route of Regional Significance: A roadway designated by the Contra Costa Transportation Authority, including: all federal and state highways and principal arterials; roadways that connect two or more regions of the County, cross County boundaries, carry a significant amount of through traffic; and/ or, provide access to a regional highway or transit facility, such as BART or a freeway. These roadways are subject to the objectives and programs in the adopted Action Plans.

Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users: The Safe, Accountable, Flexible, Efficient Transportation Equity Act was signed into law in 2005, guaranteeing \$244.1 billion in funding for highways, highway safety, and public transportation for the 5-year period 2005-2009. The Act builds upon Intermodal Surface Transportation Efficiency Act and the Transportation Equity Act for the 21st Century, and is the largest surface transportation investment in the nation's history.

Single Occupant Vehicle: A vehicle with one occupant—the driver—who is sometimes referred to as a “drive alone.”

Transit-oriented Development: Characterized by compact development, mixed use, minimum densities, and local transportation systems designed to facilitate access to rail transit stations or corridors with high levels of transit service.

Transportation Demand Management: Programs to increase the efficiency of the transportation system, reduce demand for road capacity during the peak hour and otherwise affect travel behavior to minimize the need for capacity-increasing projects.

Transportation for Livable Communities Incentive Program: A growth program in Contra Costa County intended to support projects that support alternative travel modes and balances transportation systems.

Transportation Improvement Expenditure Plan: The document that guides the allocation of Measure C Extension funds.

Travel Demand Forecasting Model: A large, complex computer model that uses information on current and future land use, transportation facilities, demographics and human travel behavior to forecast future multi-modal demand on the transportation system.

Tri-Valley: The sub-region in Contra Costa County located in the south central area of the county and includes the cities of Danville and San Ramon, along with several communities in Alameda County.

West County: The sub-region in Contra Costa County located west of the East Bay Hills, and that contains the cities of Richmond, El Cerrito, San Pablo, Hercules, Pinole, Rodeo and Crockett.

Acronyms

2017 CTP	2017 Update to the Contra Costa Countywide Comprehensive Transportation Plan
AB	Assembly Bill
ABAG	Association of Bay Area Governments
AC Transit	Alameda–Contra Costa Transit District
ADA	Americans with Disabilities Act
ADL	aerially deposited lead
ALUCP	Airport Land Use Compatibility Plan
ASCE	American Society of Civil Engineers
BAAQMD	Bay Area Air Quality Management District
BART	Bay Area Rapid Transit
BCDC	San Francisco Bay Conservation and Development Commission
BMPs	best management practices
BP	Before Present
BRT	bus rapid transit
CAAQS	California Ambient Air Quality Standards
CAFE	Corporate Average Fuel Economy
CAL FIRE	California Department of Forestry and Fire Protection
CalARP	California Accidental Release Prevention Program
CALGreen	California Green Building Standards Code
California EPA	California Environmental Protection Agency
California ESA	California Endangered Species Act
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CARE	Community Air Risk Evaluation
CBC	California Building Code
CCTA	Contra Costa Transportation Authority
CDFW	California Department of Fish and Wildlife
CEC	California Energy Commission
CEQA	California Environmental Quality Act

CFC	California Fire Code
CFR	Code of Federal Regulations
CGS	California Geological Survey
CH ₄	methane
CHHSL	California Human Health Screening Levels
CHRIS	California Historical Resources Information System
CMA	Congestion Management Agency
CMP	Congestion Management Program
CNEL	Community Noise Equivalent Level
CO	carbon monoxide
CO ₂	carbon dioxide
CO _{2e}	carbon dioxide equivalent
COC	Community of Concern
Countywide Model	Countywide Travel Demand Forecasting Model
CPUC	California Public Utilities Commission
CRHR	California Register of Historic Places
CSMP	Corridor System Management Plan
CTC	California Transportation Commission
CTP	Countywide/Comprehensive Transportation Plan
CTP Guidelines	Guidelines for Countywide Transportation Plans
CTPL	Comprehensive Transportation Project List
CWA	Clean Water Act
dB	decibels
dBA	A-weighted decibel
DPM	diesel particulate matter
DTSC	Department of Toxic Substance Control
ECA	Essential Connectivity Area
EIR	Environmental Impact Report
EPA	Environmental Protection Agency
ESA	Endangered Species Act
FAA	Federal Aviation Administration

FAST	Fixing America's Surface Transportation Act
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FMMP	Farmland Mapping and Monitoring Program
FPPA	Farmland Protection Policy Act
FTA	Federal Transit Administration
g/hp-hr	grams per horse power hour
GHG	greenhouse gas
GMP	Growth Management Program
GWP	global warming potential
HCP	Habitat Conservation Plan
HFCs	hydrofluorocarbons
HOV	high-occupancy vehicle
I	Interstate
ICM	Integrated Corridor Mobility
L _{dn}	day-night average sound level
L _{eq}	energy-equivalent noise level
LAFCO	local agency formation commission
LCFS	low carbon fuel standards
LOS	level of service
LRTIP	Long-range Transportation Investment Program
MAP-21	Moving Ahead for Progress in the 21st Century Act
MBTA	Migratory Bird Treaty Act
MMI	Modified Mercalli Intensity
mph	miles per hour
mpg	miles per gallon
MS4	municipal separate storm sewer system
MTC	Metropolitan Transportation Commission
MTCO _{2e}	metric tons of carbon dioxide equivalent
MMTCO _{2e}	million metric tons of carbon dioxide equivalent
MPO	Metropolitan Planning Organization

MTSO	Multimodal Transportation Service Objective
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NCCP	Natural Community Conservation Plan
NEPA	National Environmental Policy Act
NFIP	National Flood Insurance Program
NHPA	National Historic Preservation Act
NHTSA	National Highway Traffic Safety Administration
NMFS	National Marine Fisheries Service
NO _x	oxides of nitrogen
NO ₂	nitrogen dioxide
NOA	Notice of Availability
NOP	Notice of Preparation
NPDES	National Pollutant Discharge Elimination System
NPPA	Native Plant Protection Act
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
OEHHA	California Office of Environmental Health Hazard Assessment
OHP	Office of Historic Preservation
OSHA	Occupational Safety and Health Administration
PAHs	polycyclic aromatic hydrocarbons
PCA	Priority Conservation Areas
PCBs	polychlorinated biphenyls
PDA	Planned Development Area
PeMS	Caltrans Performance Measurement System
Phase I ESA	Phase I Environmental Site Assessment
PM _{2.5}	particulate matter up to 2.5 micrometers in size
PM ₁₀	particulate matter up to 10 micrometers in size
ppm	parts per million
RAMP	Regional Advance Mitigation Plan

RCRA	Resource Conservation and Recovery Act
ROG	reactive organic gases
RTIP	Regional Transportation Improvement Program
RTP	Regional Transportation Plan
RTPC	Regional Transportation Planning Committee
RWQCB	Regional Water Quality Control Board
SB	Senate Bill
SCS	Sustainable Communities Strategy
SDC	Seismic Design Category
SF ₆	sulfur hexafluoride
SFBAAB	San Francisco Bay Area Air Basin
SHPO	State Historic Preservation Officer
SIP	State Implementation plan
SO ₂	sulfur dioxide
SOV	single-occupancy vehicle
SR	State Route
STIP	State Transportation Improvement Program
SWAT	Southwest Area Transportation Planning Committee
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
TAZ	traffic analysis zone
TCM	Transportation Control Measure
UCERF	Uniform California Earthquake Forecast
ULL	Urban Limit Line
U.S.	United States
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USDOT	U.S. Department of Transportation
USFWS	U.S. Fish and Wildlife Service

USGS	U.S. Geological Survey
UST	underground storage tank
VHD	vehicle hours of delay
VMT	vehicle miles traveled
WCCTAC	West Contra Costa Transportation Advisory Committee
WGCEP	Working Group on California Earthquake Probabilities
°F	degrees Fahrenheit

Bibliography

Project Description

Metropolitan Transportation Commission. Guidelines for Countywide Transportation Plans, September, 2014. Available online at: http://mtc.ca.gov/sites/default/files/6b_Attachment-A.pdf.

Transportation and Circulation

Kimley-Horn. Mitigation of Recurring Congestion on Freeways. 2010. Available online at: http://www.kimley-horn.com/_public/documents/news/11/trb-2.pdf

National Center for Sustainable Transportation and UC Davis Institute of Transportation Studies, "Factors Affecting Travel Demand in the United States," November 2015.

U.S. Census Bureau. Demographic Profile 3 (2006) and CCTA, 2013.

_____. 2010-2014 American Community Survey 5-year Estimates, Tables DP03 and S0802.

Greenhouse Gas Emissions and Climate Change

Association of Bay Area Governments and Metropolitan Transportation Commission. Plan Bay Area EIR. July, 2013. Final Addendum to the Final Environmental Impact Report for Plan Bay Area certified September 2015. Accessed at: http://www.planbayarea.org/sites/default/files/pdf/Draft_Plan_Bay_Area/Draft_EIR.pdf.

Bay Area Air Quality Management District. BAAQMD Source Inventory of Bay Area Greenhouse Gas Emissions, Base Year 2007, February, 2010.

Cal-Adapt. Website accessed at: <http://cal-adapt.org/>. 2015.

California Climate Action Team. State of California Climate Action Team Biennial Report, 2009.

_____. Report to Governor Schwarzenegger and the California Legislature, April, 2006.

California Natural Resources Agency. 2009 California Climate Adaptation Strategy: A Report to the Governor of the State of California in Response to Executive Order S-13-2008, 2009.

Contra Costa County, Contra Costa County Greenhouse Gas Emissions Inventory Report, June, 2008.

- _____. Contra Costa County Climate Action Plan. Adopted December 15, 2015. Accessed at: <http://www.co.contra-costa.ca.us/DocumentCenter/View/39791>. 2015.
- Contra Costa Health Services. Climate Change Vulnerability in Contra Costa County: A Focus on Heat. Accessed at: <https://cchealth.org/health-data/pdf/2015-climate-change.pdf>. 2015.
- San Francisco Bay Conservation and Development Commission. 2016. Adapting to Rising Tides Contra Costa County Shoreline Vulnerability Assessment. Available online at: http://www.adaptingtorisingtides.org/wpcontent/uploads/2015/04/Contra-Costa_ART_Final_Report_web_2016.03.08.pdf.

Air Quality

- BAAQMD. Identifying Areas with Cumulative Impacts from Air Pollution in the San Francisco Bay Area. Version 2. March 2014.
- _____. 2015 Air Quality Summary Reports.

Agricultural Lands

- Association of Bay Area Governments and Metropolitan Transportation Commission. Plan Bay Area EIR. July, 2013. Final Addendum to the Final Environmental Impact Report for Plan Bay Area certified September 2015. Accessed at: http://www.planbayarea.org/sites/default/files/pdf/Draft_Plan_Bay_Area/Draft_EIR.pdf.
- California Association of Local Agency Formation Commissions. Website accessed December 2015 at <http://www.calafco.org/>. 2015.
- California Department of Conservation. The California Land Conservation Act 2014 Status Report, The Williamson Act. March, 2015.
- _____. California Land Conservation Act of 1965. Available online at: <http://www.conservation.ca.gov/dlrp/lca>.
- _____. Farmland Mapping and Monitoring Program. Website accessed April 25, 2017, at: <http://www.conservation.ca.gov/dlrp/fmmp/Pages/ContraCosta.aspx>.
- California Department of Transportation and City of Oakley. Negative Declaration for the SR4/Main Street Widening Project, March, 2011.
- City of Brentwood. Capital Improvement Program 2015/16-2019/20 MND, March, 2015.
- Contra Costa County Department of Agriculture. Weights and Measures, Crop Reports. Contra Costa County Crop Report 2014. Website accessed April 25, 2017, at: <http://www.co.contra-costa.ca.us/2207/Crop-Reports>.
- Delta Protection Commission. Land Use and Resource Management Plan for the Primary Zone of the Delta. February 25, 2010. Accessed at: http://delta.blogs.ca.gov/files/2016/10/Land-Use-and-Resource-Management-Plan-2.25.10_.pdf

Delta Stewardship Council. The Delta Plan. May, 2013. Website accessed at:
<http://deltacouncil.ca.gov/enabling-legislation>.

Biological Resources

Association of Bay Area Governments Resilience Program, East Contra Costa County Habitat Conservation Plan /Natural Communities Conservation Plan, 2007.

Association of Bay Area Governments and Metropolitan Transportation Commission. Plan Bay Area EIR. July, 2013. Final Addendum to the Final Environmental Impact Report for Plan Bay Area certified September 2015. Accessed at:
http://www.planbayarea.org/sites/default/files/pdf/Draft_Plan_Bay_Area/Draft_EIR.pdf.

California Department of Transportation and CDFW, California Essential Habitat Connectivity Project, 2010.

Contra Costa County. Contra Costa County General Plan, 2005–2020, January, 2005.

Contra Costa Transportation Authority. Countywide Comprehensive Transportation Plan Draft Supplemental Environmental Impact Report SCH# 2014042045. September, 2014.

Crigan, A.T. and G.C. Horak. Effects of Urbanization on Raptors in the Western United States, pp. 219-228 in “Proceedings of the Western Raptor Management Symposium and Workshop,” National Wildlife Federation, Washington, D.C. 1987.

Edgar, B. Suffering Symbol of the Mohave, *Pacific Discovery*, California Academy of Science, pp. 17-21. 1990.

Holland, R.F. *Preliminary Descriptions of the Terrestrial Natural Communities of California*, Department of Fish and Games, Sacramento, CAL, 1986; Mayer, K.E. and W.F. Laudenslayer (eds.), *A guide to wildlife habitats of California*, California Department of Fish and Game, Sacramento, CA, pp. 166, 1988.

Spencer, W.D., P. Beier, K. Penrod, K. Winters, C. Paulman, H. Rustigian-Romsos, J. Strittholt, M. Parisi, and A. Pettler. California Essential Habitat Connectivity Project: A Strategy for Conserving a Connected California, Prepared for California Department of Transportation, California Department of Fish and Game, and Federal Highway Administration. 2010.

U.S. Fish and Wildlife Service, Environmental Conservation Online System. Species by County Report – Contra Costa County. Website accessed May 15, 2017 at:
<https://ecos.fws.gov/ecp0/reports/species-by-current-range-county?fips=06013>.

_____. Critical Habitat – South Bay, 2012.

Cultural Resources

Beck, W.A., and Y.D. Haase. Historical Atlas of California. University of Oklahoma Press, Norman, Oklahoma. 1988.

Bolton, H.E. Fray Juan Crespi, Missionary Explorer on the Pacific Coast, 1769–1774. University of California Press, Berkeley, California. 1971.

- Bramlette, A. G., M. Praetzellis, A. Praetzellis, K. Dowdall, P. Brumeier, and D.A. Fredrickson. Archaeological Resources Inventory for Los Vaqueros Water Conveyance Alignments, Contra Costa County, California. Anthropological Studies Center, Sonoma State University. 1991.
- Browning, P. (Editor). The Discovery of San Francisco Bay—The Portolá Expedition of 1769–1770: The Diary of Miguel Costansó. Great West Books, Lafayette, California. 1992.
- California Archives-Contra Costa County. The History of Contra Costa County, California. Chicago, Lewis Publ. Co., 1891 website accessed August 2014 at <http://www.calarchives4u.com/history/alameda/1914-ch2.htm>. 2014.
- California Office of Historic Preservation. Mission and Responsibilities. Website accessed November 25, 2015 at http://ohp.parks.ca.gov/?page_id=1066. 2015.
- Contra Costa County Planning Department. Preliminary Historic Resources Inventory, Contra Costa County, California, 1976.
- Fredrickson, D.A. Early Cultures of the North Coast Ranges, California, Ph.D. dissertation, University of California, Davis, Davis, CA. 1973.
- Hackel, S.W. The Children of Coyote, Missionaries of Saint Francis; Indian-Spanish Relations in Colonial California 1769-1850. University of North Carolina Press, Chapel Hill, North Carolina. 2005.
- Kyle, Douglas E. Historic Spots in California. Stanford University Press, Stanford, California. 1990.
- Marschner, J. California 1850, A Snapshot in Time. Coleman Ranch Press, Sacramento, California. 2002.
- Meyer, Jack and Jeffery Rosenthal. Archaeological and Geoarchaeological Investigations at Eight Prehistoric Sites in the Los Vaqueros Reservoir Area, Contra Costa County, California. Anthropological Studies Center, Sonoma State University, Rohnert Park. 1997.
- Milliken, Randall. A Time of Little Choice: The Disintegration of Tribal Culture in the San Francisco Bay Area 1769-1810. Ballena Press Anthropological Papers No. 43. Menlo Park: Ballena Press. 1995.
- Milliken, Randall, Richard T. Fitzgerald, Mark G. Hylkema, Randy Groza, Tom Origer, David G. Bieling, Alan Leventhal, Randy S. Wiberg, Andrew Gottsfield, Donna Gillette, Viviana Bellifemine, Eric Strother, Robert Cartier, David A. Frederickson. "Punctuated Culture Change in the San Francisco Bay Area". Chapter 8 in California Prehistory: Colonization, Culture, and Complexity. Terry L. Jones and Katharine A. Klar, eds. Altamira Press, Rowman and Littlefield Publishers, Inc., New York. 2007.
- Moratto, M.J. California Archaeology. Second Edition Academic Press, San Diego. 2004.
- Priestley, H.I. A Historical, Political, and Natural Description of California by Pedro Fages, Written for the Viceroy in 1775. Translated by Herbert Ingram Priestley. University of California Press, Berkeley, California. 1937.

Rosenthal, Jeffery S., Gregory White, and Mark Sutton. "The Central Valley: A View from the Catbird's Seat". Chapter 10 in *California Prehistory: Colonization, Culture, and Complexity*. Terry L. Jones and Katharine A. Klar, eds. Altamira Press, Rowman and Littlefield Publishers, Inc. New York. 2007.

Geology and Seismicity

Bay Area Rapid Transit. eBART Corridor EIR. 2011.

_____. eBART Corridor EIR Addendum. 2014.

California Geological Survey. How Earthquakes Are Measured, CDMG Note 32, 1997.

_____. Guidelines for Evaluating and Mitigating Seismic Hazards, CDMG Special Publication 117. 1997.

Contra Costa County. Contra Costa County General Plan, 2005–2020, January, 2005.

EIP Associates. Draft EIR for the Proposed Contra Costa County General Plan, September 1990.

Graymer, R.W., D.L. Jones, and E.E. Brabb. Preliminary Geologic Map Emphasizing Bedrock Formations in Contra Costa County, California: A Digital Database, U.S. Geological Survey Open File Report 94-622. 1994.

Helley, E.J. and R.W. Graymer. Quaternary Geology of Contra Costa County, and Surrounding Parts of Alameda, Marin, Sonoma, Solano, Sacramento, and San Joaquin Counties, California: A Digital Database. U.S. Geological Survey Open File Report 97-98. 1997.

JHK & Associates. Regional Transportation Plan Draft EIR, prepared for MTC, April, 1991..

Oakeshott, Gordon B. California's Changing Landscapes, McGraw-Hill Publishing Company. 1978.

Seed, R.B., S.E. Dickenson, M.F. Riemer, J.D. Bray, N. Sitar, J.K. Mitchell, I.M. Idriss, R.E. Kayen, A. Kropp, L.F. Harder, Jr., and M.S. Power. Preliminary Report on the Principal Geotechnical Aspects of the October 17, 1989 Loma Prieta Earthquake, University of California at Berkeley. April, 1990.

Soil Conservation Service. Soil Survey of Contra Costa County, California, United States Department of Agriculture, September, 1977.

United States Geological Survey. Working Group on California Earthquake Probabilities, Fact Sheet 2008-3027, Forecasting California's Earthquakes—What Can We Expect in the Next 30 Years? Accessed at: <http://pubs.usgs.gov/fs/2008/3027/fs2008-3027.pdf>. 2008.

_____. Geologic Principles for Prudent Land Use, Professional Paper 946. 1983.

WGCEP. Model Framework. Website accessed at: <http://www.wgcep.org/framework>. 2015.

Hazards and Hazardous Materials

Association of Bay Area Governments and Metropolitan Transportation Commission. Plan Bay Area EIR. July, 2013. Final Addendum to the Final Environmental Impact Report for Plan Bay

Area certified September 2015. Accessed at:
http://www.planbayarea.org/sites/default/files/pdf/Draft_Plan_Bay_Area/Draft_EIR.pdf.

Hydrology and Water Resources

Association of Bay Area Governments and Metropolitan Transportation Commission. Plan Bay Area EIR. July, 2013. Final Addendum to the Final Environmental Impact Report for Plan Bay Area certified September 2015. Accessed at:
http://www.planbayarea.org/sites/default/files/pdf/Draft_Plan_Bay_Area/Draft_EIR.pdf.

California Department of Water Resources. California's Groundwater: Bulletin 118 Update, 2003.

Central Valley Regional Water Quality Control Board. 2008–2010 303(d) List of Water Quality Limited Segments—The Current 303(d) List. Website accessed November 19, 2015 at
http://www.swrcb.ca.gov/centralvalley/water_issues/tmdl/impaired_waters_list/#currentrpt. 2015.

Contra Costa County. Contra Costa County General Plan, 2005–2020, January, 2005.

John Carrollo Engineers. East County Corridor Study, 1988.

San Francisco Bay Regional Water Quality Control Board. CWA Section 303(d) List of Water Quality Limited Segments. Website accessed November 19, 2015 at
http://www.waterboards.ca.gov/water_issues/programs/tmdl/docs/303dlists2006/epa/state_u_sepa_combined.pdf. 2015.

Land Use, Population, Housing, and Employment

Association of Bay Area Governments. San Francisco Bay Area State of the Region: Economy, Population, and Housing, 2015. Available online at:
<http://reports.abag.ca.gov/sotr/2015/section2-economy-strengths-consequences.php>

Association of Bay Area Governments and Metropolitan Transportation Commission. Plan Bay Area EIR. July, 2013. Final Addendum to the Final Environmental Impact Report for Plan Bay Area certified September 2015. Accessed at:
http://www.planbayarea.org/sites/default/files/pdf/Draft_Plan_Bay_Area/Draft_EIR.pdf.

Metropolitan Transportation Commission. Resolution 3434 Transit Oriented Development Policy for Regional Transit Expansion Projects. 2005.

_____. Resolution 4202 for the One-Bay-Area Grant 2016.

Noise

Association of Bay Area Governments and Metropolitan Transportation Commission. Plan Bay Area EIR. July, 2013. Final Addendum to the Final Environmental Impact Report for Plan Bay Area certified September 2015. Accessed at:
http://www.planbayarea.org/sites/default/files/pdf/Draft_Plan_Bay_Area/Draft_EIR.pdf.

- Beranek, Leo L. Noise and Vibration Control. 1988.
- Bolt, Beranek, and Newman. US EPA, Noise from Construction Equipment and Operations, Building Equipment, and Home Appliances. 1971.
- Contra Costa County. Contra Costa County General Plan, 2005–2020, January, 2005.
- Federal Interagency Committee on Noise. Federal Agency Review of Selected Airport Noise Analysis Issues, August, 1992.
- U.S. Department of Transportation, Federal Transit Administration. Transit Noise and Vibration Impact Assessment, May, 2006.
- U.S. Environmental Protection Agency. Guidelines for Considering Noise in Land Use Planning and Control. 1981

Visual Resources

- Association of Bay Area Governments and Metropolitan Transportation Commission. Plan Bay Area EIR. July, 2013. Final Addendum to the Final Environmental Impact Report for Plan Bay Area certified September 2015. Accessed at:
http://www.planbayarea.org/sites/default/files/pdf/Draft_Plan_Bay_Area/Draft_EIR.pdf.
- Bay Area Air Quality Management District. Source Inventory of Bay Area Greenhouse Gas Emissions: Base Year 2007. December, 2008
- California Air Resources Board. Clean Car Standards - Pavley, Assembly Bill 1493. Website accessed January 15, 2013 at: www.arb.ca.gov/cc/ccms/ccms.htm.
- California Department of Transportation. Energy and Transportation Systems Manual. 1983.
- California Department of Transportation, Division of Transportation System Information. 2007 California Motor Vehicle Stock, Travel and Fuel Forecast. May, 2008. Available online at www.dot.ca.gov/hq/tsip.
- California Energy Commission. 2011 Integrated Energy Policy Report. Publication Number: CEC-100-2011-001-CMF. 2011.
- _____. California's Major Sources of Energy. Website accessed at:
http://energyalmanac.ca.gov/overview/energy_sources.html. 2008.
- _____. Integrated Energy Policy Report, CEC-100-2007-008-CMF. 2007
- California Energy Commission and California Air Resources Board. Reducing California's Petroleum Dependence, California Energy Commission and Air Resources Board, Joint Agency Report, August, publication #P600-03-005.
- _____. Reducing California's Petroleum Dependence, August 14, 2003 Final, Adopted, Joint Agency AB 2076 Report, publication #600-03-006F.
- Contra Costa County. Contra Costa County General Plan, 2005–2020, January, 2005.
- Energy Information Administration. U.S. Primary Energy Consumption by Source and Sector, 2007.

Mirant. Pittsburg Generating Plant. Website accessed at:

http://www.mirant.com/our_business/where_we_work/pittsburg.htm. 2008.

U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy. Transportation Data

Book: Edition 34, Oak Ridge National Laboratory. Website accessed December 12, 2015 at:

<http://cta.ornl.gov/data/index.shtml>. 2015.

Alternatives

Association of Bay Area Governments and Metropolitan Transportation Commission. Plan Bay Area EIR. July, 2013. Available online at:

http://www.planbayarea.org/sites/default/files/pdf/Draft_Plan_Bay_Area/Draft_EIR.pdf.

_____. Plan Bay Area EIR. July, 2013. Final Addendum to the Final Environmental Impact Report for Plan Bay Area certified September 2015. Accessed at:

http://www.planbayarea.org/sites/default/files/pdf/Draft_Plan_Bay_Area/Draft_EIR.pdf.

California Department of Transportation. Interstate 80 Integrated Corridor Mobility (ICM) Project, IS/MND/EA/FONSI, July, 2011.

City of Pittsburg. James Donlon Boulevard Extension Final EIR. March, 2014.

Contra Costa County. Vasco Road Safety Improvement Project Mitigated Negative Declaration, August, 2009.