
7. LISTS OF PREPARERS, PERSONS/AGENCIES CONSULTED, PARTIES TO WHOM SENT, REFERENCES, GLOSSARY, ABBREVIATIONS/ACRONYMS, AND INDEX

To aid the reader, Chapter 7 contains the following sections:

- ◆ List of Preparers
- ◆ List of Persons/Agencies Consulted
- ◆ List of Parties to Whom Sent
- ◆ List of References
- ◆ Glossary
- ◆ Abbreviations/Acronyms
- ◆ Index of Topics

7.1 List of Preparers

Listed below are the employees of the Federal Aviation Administration and the City of Los Angeles who are responsible for the preparation of the Draft EIS/EIR as lead agencies, and the Federal Highway Administration, as a cooperating agency. The responsibility for these documents lies with the FAA employees from the Western-Pacific Regional Headquarters in Hawthorne, California, and National Headquarters in Washington, D.C.; the City of Los Angeles employees from the Los Angeles World Airports offices at Los Angeles International Airport and various other city offices; and the Federal Highway Administration's Los Angeles City Office and Sacramento Division Office. Included below are the identities and backgrounds of the principal preparers.

Substantial assistance and data analysis were provided by the FAA and City's consultants. The prime consultant was Landrum & Brown. In accordance with FAA Order 5050.4A, *Airport Environmental Handbook*, a written statement was submitted by the prime consultant and the subcontractors disclosing that they have no financial or other interest in the execution or the outcome of the proposed development at the Airport. As required by FAA Order 5050.4A, paragraph 77, the names and qualifications of the principal persons contributing information are identified.

It is recognized that no one individual can be an expert in all of the environmental analysis presented in this Draft EIS/EIR. Consequently, an interdisciplinary team, consisting of technicians and experts in various topics, was required to prepare and complete this study. Since this document is a joint federal/state environmental disclosure document, all decisions that were made regarding the content and scope of this Draft EIS/EIR were made jointly by the FAA and City of Los Angeles.

Principal Preparers

U.S. Department of Transportation, Federal Aviation Administration

David B. Kessler, AICP - Environmental Protection Specialist, Airports Division, Western-Pacific Region, B.A., Physical Geography (Geology Minor), M.A. Physical Geography, 22-years experience. Principal FAA Planner responsible for detailed FAA evaluation of all parts of the Draft EIS/EIR as well as coordination of comments from various federal and state agencies. Performed required consultation efforts for architectural and historical resources and endangered and threatened species of flora and fauna.

Mia Parades Ratcliff, Manager, Planning and Programming Branch, Airports Division, Western-Pacific Region. B.S., Business Administration, 21-years experience. Responsible for management of various FAA Western-Pacific resources for preparation of Draft EIS/EIR and incorporation of information regarding FAA airport safety and design standards and policies into the Draft EIS/EIR.

Ralph C. Thompson, Assistant Manager, Community and Environmental Needs Division, National Headquarters, B.S., Civil Engineering, 32 years experience. Responsible for information concerning FAA

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nationwide policies and procedures relating to environmental issues. Also responsible for coordination with other federal government agencies at the national headquarters level.

City of Los Angeles, through the Los Angeles World Airports (formerly Departments of Airports)

Lydia H. Kennard – B.A., Urban Planning and Management; M.S., City Planning; Law Degree. Ms. Kennard has over 20 years of experience in land use planning and real estate law and development. She is currently the Executive Director for LAWA. Since mid-1998, Kennard has supervised the Draft LAX Master Plan and is currently responsible for the administration, operation and development of LAWA's four airports: LAX, Ontario International, Palmdale Regional and Van Nuys.

Jim Ritchie – B.S., Social Science; M.S., Systems Management; M.S., National Security & Strategic Studies; M.A., International Relations. Mr. Ritchie has 32 years of aviation experience, as well as extensive strategic planning experience. He has served as Deputy Executive Director of Long Range Planning for LAWA since November, 1999. His responsibilities include planning at Los Angeles World Airport's four airports, including the airport Master Planning processes for LAX and Van Nuys airports.

John L. Graham – B.S., Civil Engineering; M.S., Civil Engineering. 37 years of planning and engineering experience. Has held several positions within the City of Los Angeles and LAWA since 1963 and has served as Director of Aviation Technology since 1999. He serves as an expert and principal advisor regarding all aspects of aviation technology as it relates to facilities planning, environmental mitigation efforts, airfield operations and other aspects of airport management.

Jane L. Benefield – B.A., Urban Planning; M.A., American Studies; Professional Designation in Business Management. 28 years of experience in urban planning. Senior City Planner for the LAX Master Plan. Responsible for the coordination of staff, government agencies and consultant work relating to all aspects of the LAX Master Plan, EIS/EIR and the City entitlements process.

Evelyn Y. Quintanilla – B.S., Urban Planning and Development (Architecture Minor). 5 years of experience in urban and community planning. City Planning Associate for the LAX Master Plan. Preparation and assistance on all aspects of the LAX Master Plan, EIS/EIR and the City entitlements process.

U.S. Department of Transportation, Federal Highway Administration

Michael G. Ritchie - Division Administrator

Cesar Perez - Senior Transportation Engineer

Robert Cady - Transportation Engineer

Mary Ann Rondinella - Environmental Specialist

Karen Bobo - Equal Opportunity Specialist

Stephanie Stoermer - Environmental Specialist

Jean Mazur - Air Quality Specialist

Landrum & Brown

Max A. Wolfe – M.S., Urban and Regional Geography. 35 years experience. EIS/EIR Project Manager. Responsibility for management of entire project team on all technical and strategic issues regarding NEPA and CEQA analysis and Draft EIS/EIR preparation. Coordinated project affairs with FAA and Sponsor.

Gregory R. Wellman – B.S., Aviation Management. 17 years experience. Study Director. Responsibility for coordination of the Draft EIS/EIR and Master Plan development.

Karen H. Yamamoto, AICP - B.A., History; M.A., Urban and Regional Planning. 11 years experience. Project Coordinator. Responsibility for overall review and edit of Draft EIS/EIR document and coordination of Draft EIS/EIR preparation.

Keith B. Wilschetz – B.S., Aerospace Engineering. 15 years experience. Responsibility for Surface Transportation and overall technical review of the Draft EIS/EIR.

Kenneth J. Delino, AICP – B.A., Environmental Studies; M.A., Environmental Planning and Management. 26 years experience. Responsibility for Regional Context, Purpose and Need, Alternatives, Relocation and overall technical review.

Jon M. Woodward – M.S., Geography. 29 years experience. Responsibility for technical analyses of aircraft noise including oversight of aircraft noise data preparation, computation of noise contours, and aircraft noise abatement evaluations.

C. Nicholas Johnson – B.S., Aviation Management; M.P.A., Public Administration and Aviation Administration. 12 years experience. Responsibility for technical coordination with the FAA on planning and Airport Layout Plan, Aviation Safety, and operations analysis coordination.

Joseph C. Huy – B.S., Aviation Flight Operations; M.P.A., Aviation Administration. 6 years experience. Responsibility for roadway noise analysis, assistance with off-site fuel farm relocation, and review of Fire Protection and Law Enforcement.

Berta Fernandez – B.A., Business Administration. M.S. Coursework in Quantitative Analysis. 14 years experience. Responsibility for technical analyses of airside capacity, delay and constrained activity.

Scott D. Carpenter – B.S., Electronic Engineering Technology. 13 years experience. Assistance with noise abatement alternative analysis.

J. Robert Adams – B.U.P., Urban Planning. 7 years experience. Responsibility for aircraft noise contour and grid point modeling.

Aaron R. Geckle – B.S., Environmental Sciences. 1 year experience. Assistance with aircraft noise section contour mapping, grid points, and input data.

Charles C. Lang – B.S., Physical Geography. 3 years experience. Preparation of mapping associated with aircraft noise level presentation and input data.

Jacob D. Strawn – B.S., Aviation Management; M.P.A., Public Administration and Aviation Management. 1 year experience. Assistance in development of Airport Layout Plan and roadway noise analysis.

Camp Dresser & McKee Inc.

Roger A. Johnson – B.S., Engineering. 17 years experience. Project Director. Provided oversight of strategic and technical aspects of Draft EIS/EIR analyses. Responsible for analyses of on-airport air quality, energy and natural resources, public utilities, earth resources, hazardous materials, human health and safety, drainage and water quality, floodplains, and coastal resources.

Robin E. Ijams – B.A., Environmental Studies. 15 years experience. Project Manager. Managed strategic, technical, and procedural aspects of Draft EIS/EIR analyses, including NEPA and CEQA compliance. Oversaw analyses of on-airport air quality, energy and natural resources, public utilities, earth resources, hazardous materials, human health and safety, drainage and water quality, floodplains, and coastal resources.

Kristine McCaffrey – B.S., Environmental Engineering; B.S., Planning. 4 years experience. Deputy Project Manager. Responsible for public utilities (water, wastewater, solid waste), health and safety, and coastal resources analyses. Assisted in the off-site fuel farm engineering feasibility analysis.

Pat Russell – B.S., Mechanical Engineering. 15 years experience. Deputy Project Manager. Oversaw hazardous materials analysis.

Anthony J. Skidmore – B.A., Sociology; M.P.A., Public Administration. 20 years experience. Assisted in technical and strategic issues regarding NEPA and CEQA analysis.

Joe Bellas, P.E. – B.S., Chemical Engineering; M.S., Management. 16 years experience. Responsible for off-site fuel farm siting study and engineering feasibility analysis and risk of upset analysis.

Ivette M. Bolender, R.G. – B.S., Geology; M.S., Micropaleontology. 6 years experience. Participated in the hazardous materials analysis.

Robert Baltz – B.S., Civil Engineering; M.S., Civil Engineering and GIS. 4 years experience. Assisted in the quantitative health risk assessment.

Clara Chan – B.S., Geology; M.S., Civil and Environmental Engineering. 2 years experience. Participated in preparation of hazardous materials analysis.

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Coral Damkroger, AICP – B.S., Civil Engineering; M.C.P., City Planning. 12 years experience. Participated in the water use and wastewater analyses.

Ruth Diaz – B.S., Environmental Engineering. 1 year experience. Participated in the air quality analysis.

Brigitte Howe – B.S., Geology, M.S., Geology, M.S., Biology. 11 years experience. Assisted in the quantitative health risk assessment.

Nancy Hsu – B.S., Environmental Analysis and Design. 2 years experience. Participated in the solid waste, natural resources, and floodplains analyses.

Alan Johns – B.A., Environmental Studies; M.E.M, Environmental Toxicology and Risk Assessment. 4 years experience. Assisted in the quantitative health risk assessment.

Erik Jorgensen – B.S., Chemical Engineering; M.S., Chemical and Environmental Engineering. 15 years experience. Participated in the energy and drainage and water quality analyses.

James LaVelle – B.A., Biological Sciences; M.A., Biology; M.S., Industrial and Environmental Toxicology; Ph.D., Biology. 22 years experience. Responsible for quantitative health risk assessment, including technical and policy considerations.

Jeff Lewandowski – B.S., Civil Engineering; M.S., Engineering, D.Eng, Engineering. 14 years experience. Participated in analyses of water quality and drainage.

J. Max Liles – B.S., Hydrology and Water Resources. 5 years experience. Responsible for drainage and water quality assessment, including model development, impact analysis, and document preparation.

Teddy Marcum – B.S., Environmental Science; Masters of Liberal Arts. 18 years experience. Assisted in the quantitative health risk assessment.

Gabe Negrete – 13 years experience. Preparation of graphics.

Suzanne Pass – A.A., Hazard Materials Management; B.A., Humanities; M.S., Computer Information Systems. 12 years experience. Assisted in the quantitative health risk assessment.

John R. Pehrson, P.E. – B.S., Chemical Engineering. 19 years experience. Responsible for on-airport, off-airport, and construction air quality analyses, including on-airport criteria and toxic air pollutant modeling and analysis, impact assessment, and document preparation.

Teresa Raine – B.S., Environmental Science; M. Eng., Environmental Engineering. 1 year experience. Assisted in preparation of on-airport air quality analysis, including EDMS modeling and analysis of on-airport criteria pollutants.

Donald J. Schroeder, P.E. – B.S., Civil Engineering; M.S., Civil/Environmental Engineering. 28 years experience. Provided oversight of drainage and water quality analyses, including technical and policy considerations.

E. Tamsin Serjak – B.S., Meteorology; M.A., Energy and Environmental Analysis. 11 years experience. Assisted in on-airport air quality analysis, including EDMS modeling and analysis of on-airport criteria pollutants.

George Siple, QEP – B.A., Chemistry; M.S.P.H., Air and Industrial Hygiene; M.B.A. 27 years experience. Assisted in on-airport air quality analysis, including model refinement, criteria pollutant modeling, impact assessment, toxic air quality analysis, and document preparation.

S. Sibel Tekce – B.S., Civil Engineering; M.S., Civil Engineering; M.S., Environmental Engineering. 1 year experience. Participated in the energy and drainage and water quality analyses.

Kassandra Tzou, P.E. - B.S., Civil and Environmental Engineering; M.S., Environmental Engineering. 6 years experience. Assisted in preparation of health risk analysis.

Vincent Tino – B.S., Meteorology; M.S., Meteorology. 10 years experience. Participated in on-airport air quality analysis, including EDMS modeling and analysis of on-airport criteria pollutants.

William D. Walters, P.E. – B.S., Chemical Engineering. 14 years experience. Participated in EDMS and ISC3 modeling and analysis of on-airport criteria and toxic air pollutants, and off-airport air quality intersection modeling analyses. Responsible for ambient pollutant and deposition monitoring studies.

PCR Services Corporation

Gregory J. Broughton – B.A., History/Environmental Management; M.B.A., Land Use/Environmental Focus. 28 years experience. Project Director. Provided oversight and strategic support to Draft EIS/EIR analyses.

Jay Ziff – B.A., Environmental Studies; M.S., Landscape Architecture. 11 years experience. Project Manager. Provided oversight of strategic and technical aspects of Draft EIS/EIR analyses. Responsible for overseeing analyses of land use, socio-economic impacts, DOT-Section 4(f), cultural resources, light emissions, aesthetics, public services, and schools.

George Pollock – B.S., Physics. 10 years experience. Responsible for overseeing the air quality analysis.

Lenny Bari – B.S., Economics; B.S., Geography. Participated in the land use and socio-economic impact analyses.

Jim Dunning – B.S., Environmental Studies. 3 years experience. Participated in the air quality analyses.

Paula Fell – B.A., Biology; M.S., Environmental Studies. 10 years experience. Responsible for light emissions and aesthetics analyses. Assisted in the land use analysis.

Mollie Hoffman – B.S., Engineering. 9 years experience. Participated in the air quality analysis.

Margaret Shekell – B.A., Social Ecology. 13 years experience. Responsible for land use analysis.

Beryl Thatcher – B.S., Environmental Engineering. 1 year experience. Assisted with the preparation of air quality analysis.

Paulette Wills – B.A., Geography; M.S., Geography. 3 years experience. Responsible for socio-economic impacts, public services, DOT-Section 4(f), schools analyses, GIS, and land use support.

David Wright – B.S., Genetics. 20 years experience. Participated in the air quality analysis.

Janet Ostashay – B.S., Social Ecology, M.A., Historic Preservation. 12 years experience. Director of Cultural Resources Management. Responsible for historic/architectural, archaeological/cultural, and paleontological resources analysis.

Sapphos Environmental, Inc.

Marie Campbell – B.A., Ecosystems: Conservation of Natural Resources; M.A., Geography (Geomorphology/Biogeography). 20 years experience. Coordinated preparation of biological resource impact analysis and natural resource regulatory permitting issues; prepared impact analysis for wetlands.

Irena Mendez – B.S., Chemistry; M.S., Chemistry; Ph.D., Chemistry; Post-doctoral Scholar (Biology); Post-doctoral Scholar (Biochemistry). 11 years experience. Prepared impact analysis for biotic communities and threatened and endangered species.

Brad Blood – B.S.; Zoology; M.S., Biology; Ph.D., Biology. 19 years experience. Prepared impact analysis for threatened and endangered species.

Robert Witthaus – B.S., Biological Sciences. 8 years experience. Assisted with preparation of impact analysis for biotic communities and wetlands.

Kristeen Penrod – B.A., Geography and Environmental Studies. 4 years experience. Assisted with preparation of impact analysis for biotic communities and threatened and endangered species.

Michelle Dohrn – B.S., Zoology. 5 years experience. Assisted with preparation of impact analysis for biotic communities and threatened and endangered species.

Paul Seilo – B.A., Environment, Economics, & Politics. 2 years experience. Assisted with preparation of impact analysis for biotic communities, threatened and endangered species, and wetlands.

Kathleen Phillips – A.B., Physics. 3 years experience. Assisted with preparation of impact analysis for biotic communities, threatened and endangered species, and wetlands.

Kimberlee Meyers – B.A., Environment, Economics, & Politics. 1 year experience. Assisted with preparation of impact analysis for biotic communities, threatened and endangered species, and wetlands.

7. List of Preparers

Lea + Elliot

Diane Woodend Jones – B.S., Architecture; M.B.A. 20 years experience. Responsibility for general oversight of System Capital Cost Estimate.

Jeff Davis – B.S., Electrical Engineering. 21 years experience. Responsibility for energy consumption analysis.

Ron Sheahan – B.S., Mechanical Engineering; M.S., Civil Engineering. 10 years experience. Responsibility for ridership analysis and passenger trip times.

Guadalupe Murillo – B.S., Mechanical Engineering. 4 years experience. Responsibility for train performance modeling.

Melinda Stoupe – B.S., Industrial Engineering; M.S., Industrial Engineering; Ph.D., Management Science. 7 years experience. Responsibility for general review.

JKH Mobility Services

Rod Swindler, P.E. – B.S., Civil Engineering; M.S., Civil Engineering. 16 years experience. Responsible for report preparation, project coordination, quality control, level of service analyses, curb analyses, and parking analyses.

J. Sam Lott, P.E. – B.S., Mechanical Engineering. 27 years experience. Responsible for Automated People Mover passenger flow assessment.

Veit Gentry – 30 years experience. Responsible for ground transportation simulation modeling and analysis.

David D. Hathaway, P.E. – B.S., Civil Engineering. 16 years experience. Responsible for the flight schedule processing and model calibration.

Lee Anne S. Dixon, E.I.T. – B.S., Civil Engineering; M.S., Civil Engineering. 4 years experience. Participated in report preparation, level of service analyses, curb analyses, air quality documentation, and parking analyses.

Kendall L. Fogle, E.I.T. – B.S., Civil Engineering; M.S., Civil Engineering. 3 years experience. Participated in report preparation, level of service analyses, curb analyses, air quality documentation, parking analyses, and construction impact analyses.

Jill A. Swaynos, E.I.T. – B.S., Civil Engineering; M.S., Civil Engineering. 1 year experience. Participated in report preparation, and level of service analyses.

Barton-Aschman Associates

Franklin E. Sherkow, P.E. – B.S., Civil Engineering. 26 years experience. Project Manager. Provided oversight of strategic issues and support for the transportation analyses.

Bradlee F. Williams P.E. – B.S., Applied Mathematics/Engineering; M.S., Engineering/Public Policy. 23 years experience. Technical Manager for the off-airport traffic analyses.

Larry Wesemann – B.A., Geography/Mathematics; M.A., System Design (Engineering)/Urban Geography. 26 years experience. Technical Manager for the off-airport traffic analyses.

M. Yunus Rahi, P.E., T.E. – B.S., Civil Engineering; M.S., Civil engineering; Ph.D., Civil Engineering. 20 years experience. Performed traffic impact analysis, capacity and level of service analysis, development of site-specific traffic impact mitigation strategies and programs, and congestion management program analyses.

Shashank Patil – B.S., Civil Engineering; M.S., Civil Engineering. 6 years experience. Senior traffic engineer for the transportation analyses.

Bangali Dombia – B.S., Mathematics/Physics; M.S., Civil Engineering. 12 years experience. Performed traffic demand modeling, network improvement measures, and network-level alternative mitigation strategies.

Patrick Nguyen – B.S., Civil Engineering. 5 years experience. Senior traffic engineer for the transportation analyses.

Hamilton, Rabinovitz, & Alschuler, Inc.

Francine Rabinovitz – Ph.D., Urban Planning. 25 years experience. Responsibility for economic analysis and overall project oversight.

Paul Silvern – M.A., Architecture and Urban Planning. 15 years experience. Responsibility for ongoing technical analysis and project management.

Robert Sims – Ph.D., Economics. 10 years experience. Responsible for economic modeling and technical analysis.

Daniel R. Jordan – Ph.D., Policy Analysis. 3 years experience. Responsible for economic and policy analysis.

Greg Rabinovitz – Responsibility for initial economic analysis and developing analytic framework.

Bonnie Gee Yosick – M.A., Business Administration. 2 years experience. Responsible for economic and policy analysis.

Psomas

Matt J. Rowe – B.S., Surveying and Photogrammetry. 18 years experience. Responsibility for surveying services supporting the LAX master expansion plan including layout for terminal, taxiways, and utilities and establishment of horizontal and vertical control to facilitate mapping and construction. Currently directing the preparation of GIS-generated maps utilizing parcel level data indicating noise impacts from various proposed runway concepts.

Matt J. Caraway – B.S., Land Surveying and Photogrammetry. 13 years experience. Responsibility for providing and implementing GIS mapping and solutions supporting the LAX conceptual runway layouts for further expansion.

Taylor-Hunter Associates

Matt Hunter, P.E., G.E., C.E.G. – B.A., Earth Science; M.S., Civil Engineering. 15 years experience. Responsible for earth resources analysis.

JBG Environmental Consulting

Julie Gaa – B.A., Environmental Studies; B.A., Cultural Anthropology. 13 years experience. Assisted in quality review and quality assurance and technical integration.

Other Consultants

AeroVironment Environmental Services, Inc. (AVES) – Installed and operated the ambient monitoring station. Completed the field sampling for the deposition study and the PM₁₀ air toxic composition study.

Visibility Services, Inc. (VSI) – Mr. Dennis Haase. Conducted a performance audit of the ambient monitoring station.

University of Missouri, Rolla – Dr. Phillip D. Whitefield and Dr. Donald E. Hagan. Completed an assessment of monitored particle counts from commercial jet engines in support of the development of aircraft engine PM₁₀ emission factors.

Additional City of Los Angeles Staff

Los Angeles World Airports (formerly Department of Airports)

Mark S. Adams – Environmental Supervisor

J.D. Ahmanson – Contract Administrator

John W. Bangs III – Commanding Officer

Gary Brown – Environmental Supervisor

Susan H. Collette – Transportation Planning Engineer

Steven L. Crowther – Assistant Airport Environmental Manager

Kim Day – Deputy Executive Director - Project & Facilities Director

7. List of Preparers

Philip Depoian – Deputy Executive Director
Intissar Durham – Program Director
Philip K. Ewbank – Chief of Operations I
Walt Garrick – Central Utility Plant
Ken Giles – Assistant Chief Engineer
Susan Gilmore – Public Communication
Mina H. Hanna – Electrical Engineer Associate III
Karen Hoo – City Planner
Raymond S. Ilgunas – Assistant City Attorney
Donald E. Kalanick – Civil Engineer
Brian Kilbane Jr. – Central Utility Plant
Maurice Z. Laham – Airport Environmental Manager II
Paul Maier – Construction and Maintenance Division
Paula McHargue – Supervisor Transportation Planner II
Harold J. Messinger – City Planning Associate
Robert H. Millard – Chief Airports Engineer
Carl Morgan – Transportation Planning Associate II
Luz Murillo-Reyes – Management Analyst
Kathryn R. Pantojo – Environmental Supervisor
Dennis O. Quilliam – City Planner
Louise Riggen – Recycling Coordinator
William J. Scully – Airport Maintenance Superintendent
Charlie Sipple – Airport Manager III
Roger Spear – Plumbing Supervisor
Shirlene Sue – Senior Management Analyst II
Patricia Tubert – City Attorney
Rick Wells – Manager, Project Planning & Development
Janet Woods – Management Analyst II
Roy Yoneda – Parking Manager

Department of City Planning

Con Howe – Executive Director
Gordon Hamilton – Deputy Executive Director
Paul Beard – City Planner
Marc Woerschling – City Planner
Jon Foreman – City Planning Associate
Simon Pastucha – City Planning Associate

Department of Public Works

Kamair (Kevin) Azarmahan – Engineer, Bureau of Engineering

Gil Garnas – Division Manager, Bureau of Sanitation
Turner Johnson – Bureau of Sanitation
Safa Kaddis – Civil Engineering Associate III, Bureau of Sanitation
Dr. Ara J. Kasparian – Manager, Environmental Program, Bureau of Engineering
Bob Manning – Civil Engineering Associate, Bureau of Sanitation
Sima Mobini – Bureau of Engineering
Lee Pittman – Engineer, Bureau of Engineering
Vitaly B. Troyan – City Engineer, Bureau of Engineering

Department of Transportation

Frances T. Banerjee – General Manager
Jay Kim –Transportation Engineer
Allyn Rifkin – Principal Transportation Engineer

Department of Water and Power

S. David Freeman – General Manager
Don Giddings – Staff Engineer of Power Distribution
William Glauz – Director of Environmental Assessment
Charles C. Holloway – Supervisor of Environmental Assessment and EMF
Luis Nuno – Distribution Engineering – Water
Alex Preciado – Civil Engineering Assistant

Environmental Affairs Department

Detrich B. Allen – Interim General Manager
Gretchen Hardison – Environmental Supervisor

Los Angeles Fire Department

Gary Bowen – Chief
Michael D. Reagan – Battalion Chief

Los Angeles Public Library

Mary Hopf – Acting Senior Librarian, Loyola Village Branch

Solid Resources Citywide Recycling Division (formerly Integrated Solid Waste Management Office)

Denis Keyes – Operations Statistical Research Analyst

7.2 List of Persons and Agencies Consulted

This section contains a list of all persons and agencies that were consulted during the evaluation and preparation process for the Draft EIS/EIR.

Federal Agencies

National Marine Fisheries Service

Robert Hoffman – Fishery Biologist

U.S. Department of Agriculture

Jennifer Allen – Wildlife Biologist, Wildlife Services.

Jennifer Mendohlsohn – Wildlife Biologist, Wildlife Services

U.S. Department of the Army, Corps of Engineers (Los Angeles District)

David J. Castanon – Chief, North Coast Section, Regulatory Branch

Phelicia Gomes – Project Manager

Fari Tabatabai – Project Manager

U.S. Department of the Interior, Fish and Wildlife Service

Michael J. Spear – California/Nevada Operations Manager

Gail C. Kobetich – Field Supervisor (Carlsbad)

Jim A. Bartel – Assistant Field Supervisor (Carlsbad)

Alison Anderson – Wildlife Biologist

John Bradley – Wildlife Biologist

Kevin Clark – Wildlife Biologist

Karen Evans – Wildlife Biologist

Carol Gorbis – Wildlife Biologist

Robert James – Wildlife Biologist

Doug Krofta – Wildlife Biologist

Christine Moen – Wildlife Biologist

Chris Nagano – Wildlife Biologist

Marj Nelson – Wildlife Biologist

Jennifer O'Brien – Wildlife Biologist

U.S. Environmental Protection Agency

Paula Bisson – Chief, Toxics Section, Cross Media Division

Pam Brodowicz – Office of Transportation and Air Quality

Bridget Coyle – Section Chief, Data Management and Analysis

Rich Cook – Office of Transportation and Air Quality

Bryan Manning – Office of Transportation and Air Quality

William Peterson – Office of Air Quality Planning and Standards

Anne Pope – Office of Air Quality Planning and Standards

Richard Wilcox – Office of Transportation and Air Quality

U.S. Navy

Everett L. Douglas – Aircraft Environmental Support Office (AESO)

Lt. Col. Charles H. Gross – Defense Fuel Support Point

Ms. Dawn Lawson – Southwest Division Naval Facilities Engineering Command

State of California

California Environmental Protection Agency

Air Resources Board

Jeff Long – Manager, Analysis Section

Department of Toxic Substances Control

Jan Radimsky – Branch Chief, Hazardous Materials Program

Integrated Waste Management Board

Catherine Cardozo – Supervisor

Tim Hall – Integrated Waste Management Specialist

Coastal Commission

Teresa Henry – District Manager, South Coast District – Long Beach

Pam Emerson – Los Angeles County Area Supervisor, CPA III

Robin Maloney-Rames – Coastal Program Analyst

Department of Conservation

Russell Miller – Senior Geologist

Gregory Poseley – Resources Agency

David Sanchez – Environmental Engineer, Division of Oil, Gas and Geothermal Resources

Department of Fish and Game

Patricia Wolf – Acting Regional Manager, Region 5

Chanelle Davis – Wildlife Biologist

William Tippetts – NCCP Field Supervisor

Patricia Wolf – Acting Regional Manager

Department of Transportation

Melvin Hodges, P.E. – Chief Supervising Transportation Engineer, Office of Project Studies

Raja Mitwasi, P.E. – District Division Chief, Planning & Public Transportation

Steve Buswell – Program Manager, IGR/CEQA/CMP, Local Development Review

R. David Gilstrap, P.E. – Senior Transportation Engineer, Travel Analysis

Regional Agencies

Santa Monica Bay Restoration Project

Marianne Yamaguchi – Director

South Coast Air Quality Management District

Thomas Chico – Program Supervisor, Air Quality Modeling

Connie A. Day – Program Supervisor, TCM/Conformity

Henry Hogo – Planning Manager, Air Quality Modeling and Source Strategies

7. List of Preparers

County of Los Angeles

County Sanitation Districts of Los Angeles County

Larry Mendoza – Solid Waste Program Administrator

Department of Health Services

Stan Yuehara – Environmental Health Specialist III

Department of Public Works

Keith A. Lilley – Engineer, Hydraulic/Water Conservation Division

Saryu Prasad – Civil Engineer, Design Division

Other Municipal Governments

Metro Regional Environmental Management (Portland, Oregon)

Bryce Jacobson – Associate Solid Waste Planner

Other Local Agencies

City of El Segundo Library

Erika Condon – Senior Librarian

City of El Segundo Department of Rec. & Parks

Jim Faulk – Director

City of Inglewood

Lori Parcels – Planning Manager

Private Organizations

Boeing

Don Sutkus – Propulsion Technology and Product Development, Engine and Emissions Group

Browning-Ferris Industries

John Mays – Environmental Engineer

California Native Plant Society

George Stevenson – Los Angeles/Santa Monica Mountains Chapter

Coastal Dunes Conservancy

Fred Heath – Director

CSSI Inc.

Steven Augustine – Software Engineer

Ted Thrasher – Software Engineer

EarthTech

Dr. Robert J. Yamartino – Program Director

Friends of the Dunes

Sally Davison – Volunteer Coordinator

Heal the Bay

Adi Liberman – Executive Director

LAXFUEL Corporation

Lawrence McMahon – Operations Manager

Jim Moses – Facility Manager

Pratt & Whitney

Anthony J. Fiorentino – Manager Aircraft Emissions & Policy, Combustion Component Center

Republic Services of California

Sam Rohoff – General Manager

Rhapsody in Green

John Earl – Executive Director

Sierra Club

Alan Aronson – Airport/Marina Group

Southeast Resource Recovery Facility (SERRF)

Allen Foley – Administrative Officer

University of Denver

Dr. Peter J. Popp – Professor, Department of Chemistry and Biochemistry

USA Waste

Leigh Ann Cullen – Environmental Specialist

Waste Management Inc.

John Burns – Compliance Coordinator

Kay Krumwiede – Landfill Cashier

Hugh Walker – Landfill Manager

7.3 List of Parties to Whom Sent

The list of parties to whom the document will be sent will be determined by the Federal Aviation Administration and Los Angeles World Airports. The final distribution list will be included in the Final EIS/EIR. Appendix A contains a list of agencies and personnel who were contacted at the beginning of this study.

Federal Agencies/Officials:

	<u>Number of Copies</u>
Mr. David Kessler Federal Aviation Administration 15000 Aviation Boulevard, P.O. Box 92007-WWPC Hawthorne, CA 90261	85
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7.4 List of References

The following is a list of reference material used in the evaluation of information included in the Draft EIS/EIR.

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7.5 Glossary/Nomenclature Conventions

This following section is a glossary of terms and nomenclature conventions included in the Draft EIS/EIR document in order to aid the reader in better understanding of the document.

Term	Description
Acid Deposition (Acid Rain)	A complex chemical and atmospheric phenomenon that occurs when emissions of sulfur and nitrogen compounds and other substances are transformed by chemical processes in the atmosphere, often far from the original sources, and then deposited on earth in either a wet or dry form. The wet forms, popularly called "acid rain," can fall as rain, snow, or fog. The dry forms are acidic gases or particulates.
Acoustics	The physical qualities of a room or other enclosure (such as size, shape, amount of noise) that determine the audibility and perception of speech and music.
Acute Health Hazard Adverse Impact	A hazard caused by a single or a few exposures to relatively large amounts of a chemical. A term used to describe unfavorable, harmful, or detrimental environmental changes. Adverse impacts may be significant or not significant. (See Significant Impact)
Agricultural Land Use	The use of land primarily for farming, ranching, horse breeding, dairy farming and other forms of food and crop production. From a planning perspective, agricultural land use connotes primary economic use of the property.
Air Quality Model	An algorithmic relationship between pollutant emissions and pollutant concentrations used in the prediction of a project's pollutant impact.
Air Toxics	Any air pollutant for which a national ambient air quality standard (NAAQS) does not exist (i.e., excluding ozone, carbon monoxide, PM ₁₀ , sulfur dioxide, nitrogen dioxide) that may reasonably be anticipated to cause cancer, developmental effects, reproductive dysfunctions, neurological disorders, heritable gene mutations or other serious or irreversible chronic or acute health effects in humans.
Ambient Conditions	Initial background concentration sensed/measured at a monitoring/sampling site, as in air quality or noise.
Ambient Noise	The background noise associated with a given environment, usually a composite of sounds from many sources near and far.
Aquifer	A natural underground formation that is saturated with water, and from which water can be withdrawn.
Area Source	The agglomeration of many air pollutant sources that have low emission rates spread over a large area which are too numerous to treat individually. An example of this would be a parking lot.
Aromatics	A type of hydrocarbon, such as benzene or toluene, added to gasoline in order to increase octane. Some aromatics are toxic.
Arterial Road	A vehicular right-of-way whose primary function is to carry through traffic in a continuous route across an urban area while also providing some access to abutting land.
Artifact	A single, portable man-made or man-altered object; usually culturally diagnostic.
At-Grade Crossing	The crossing of two channels of transportation at the same elevation or level.
Atmospheric Stability	The resistance to or enhancement of vertical air movement related to the vertical temperature profile.
Attainment Area	An area considered to have air quality as good as or better than the National Ambient Air Quality Standard as defined in the Clean Air Act. An area may be an attainment area for one pollutant and a non-attainment area for others.
Average Daily Traffic (ADT)	The number of vehicles passing a given point on a road going in a direction during a 24-hour period.
Avgas	Avgas is aviation grade gasoline used by small propeller-driven general aviation aircraft.
A-Weighted Decibel Sound Level (Dba)	See decibel, A-Weighted
Background Concentration	Air pollutant concentration due to natural sources and distant unidentified man-made sources.
Background Noise	See Ambient Noise.
Background View	View beginning at a distance from the observer and extending as far toward the horizon as the eye can detect the presence of objects. Skylines or ridge lines against other land surfaces are the strongest visual elements of the "background."
"Basement" Rock	A series of rocks, generally with complex structure beneath the predominantly sedimentary rocks.
Berm	An embankment, usually extended in a linear alignment. Berms can function as visual screens, noise attenuators, and water diverters.
Best Available Control Measure (BACM)	A term referring to the "best" measures (according to EPA guidance) for controlling small or dispersed sources of particulate matter, such as roadway dust, wood stoves, and open burning.
Biotic Diversity	Species diversity – i.e., number of different species occurring in a location or under some condition.
Bureau Of Sanitation	The Bureau of Sanitation is responsible for transportation and disposal of waste generated by single-family residences, certain multi-family residences, and city department facilities (e.g., parks). Industrial, commercial, and most multi-family residences must contract with private companies for their solid waste transportation and

Term	Description
CAL3QHC	disposal needs. California Line Source Model with queuing and highway capacity delay algorithms for signalized intersections.
CAL3QHCR	California Line Source Model with queuing and highway capacity delay algorithms for signalized intersections, refined meteorological data option.
Carbon Monoxide (CO)	A colorless, odorless gas which is toxic because of its tendency to reduce the oxygen-carrying capacity of the blood.
Carrying Capacity (Habitat)	The maximum use of habitat possible without inducing damage to vegetation, wildlife, or related resources.
Chlorofluorocarbons (CFC)	A family of inert, nontoxic, and easily-liquefied chemicals used in refrigeration, air conditioning, packaging, insulation, or as solvents or aerosol propellants. Because CFCs are not destroyed in the lower atmosphere, they drift into the upper atmosphere where the chlorine is released and destroys ozone.
Chronic Health Hazard Class I Landfill	A hazard caused by repeated exposure to small amounts of a toxic air pollutant. Class I landfills are those that can accept hazardous materials and wastes. Class I landfills are required to meet more stringent regulatory requirements for siting, operation, and record-keeping than those that accept municipal solid waste.
Clean Fuels	Blends and/or substitutes for gasoline fuels. These include compressed natural gas, methanol, ethanol, and others.
Closed Site	A site is "closed" when the regulatory agency responsible for overseeing the contamination and remediation (if any) determines that no additional activity or monitoring is required. Sites may be closed because the contamination no longer poses a threat to human health or the environment or the aquifer is so degraded that remediating a particular site will not resolve a contamination issue.
Community Noise Equivalent Level (CNEL)	Represents a time-weighted 24-hour average noise level based on the A-weighted decibel. The CNEL scale includes an additional 5 dB adjustment to sounds occurring in the evening (7:00 p.m. to 10 p.m.), and a 10 dB adjustment to sounds occurring in the late evening and early morning hours (between 10:00 p.m. and 7:00 a.m.).
Composting	Composting of solid waste provides a means of recovering portions of the inorganic and the organic segments of the waste stream. It is a biological process in which organic substances are converted into a humus-like material. The compost, when added to the soil, is capable of improving the tilth, water holding, and nutrient holding capacity of the soil.
Comprehensive Plan	An official document that serves as a guide to the long-range physical development of a city or planning area. Typically, comprehensive plans are concerned with a time frame of at least five years and are primarily oriented to the various aspects of the physical development of an area. In California, the general plan is a form of a comprehensive plan.
Contiguous	Lands or legal subdivisions having a common boundary; lands having only a common corner are generally not contiguous.
Co-Seismic Ground Deformation	Movement (deformation) occurs along a fault (which probably does not produce large earthquakes of its own) in response to an earthquake on another nearby fault(s). This type of triggered movement still produces ground rupture along the fault and can significantly damage underground utilities, or other structures built across the fault. Triggered slip of this type was observed in the 1989 Loma Prieta (and possibly the Northridge) earthquake, and has been observed in other regions following large earthquakes.
Criteria Pollutant Cultural Resources	A pollutant for which EPA has established a National Ambient Air Quality Standard. Physical remains of human activity that is sufficiently old to have value in characterizing culture.
Cumulative Impact	Environmental impact of the project under study plus background growth. Cumulative impacts refers to two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts. The individual effects may be changes resulting from a single project or a number of separate projects. The cumulative impact from several projects is the change in the environment which results from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable probable future projects. Cumulative impacts can result from individually minor, but collectively significant, projects taking place over a period of time.
Cumulatively Considerable	Cumulatively considerable means that the incremental effects of an individual project are considered when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects. In accordance with the State CEQA Guidelines, Section 15130(a)(3), "A project's contribution is less than cumulatively considerable if the project is required to implement... its fair share of a Mitigation Measure or measures designed to alleviate the cumulative impacts."
Day-Night Average Sound Level (Ldn)	The A-weighted average sound level in decibels during a 24-hour period with a 10 dB weighing applied to nighttime sound levels (10 p.m. to 7 a.m.). This exposure method is similar to the CNEL, but deletes the evening time period (7 p.m. to 10 p.m.) as a separate factor.

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Term	Description
Decibel (dB)	A unit for expressing the relative intensity (loudness) of sounds. The decibel is the logarithm of the ratio of the intensity of a given sound to the faintest sound discernible by the human ear.
Decibel, A-Weighted (dBa)	A-weighted is a frequency correction that correlates overall sound pressure levels with the frequency response of the human ear.
Design Capacity	The capacity at which a street, water distribution pipe, pump or reservoir, or a wastewater pipe or treatment plant is intended to operate.
Development Impact Fees	A fee or tax imposed on developers to pay for the costs to the community or providing services to a new development. It is a means of providing a fund for financing new improvements without resorting to a deficit financing.
Direct Employment Dispersion	In reference to a particular project, employment provided by that project. The process by which atmospheric pollutants disseminate due to wind and vertical stability.
Drought-Tolerant	An adjective used to describe any plant species that is capable of surviving with little or no water for extended periods.
Easement	A right given by the owner of land to another party for specific limited use of that land. An easement may be acquired by a government through dedication when the purchase of an entire interest in the property may be too expensive or unnecessary.
Eminent Domain	The legal right of government to acquire or "take" private property for public use or public purpose upon paying just compensation to the owner.
Emission Factor	The rate at which pollutants are emitted into the atmosphere by one source or a combination of sources.
Endangered Species	A species or subspecies of plant or animal whose prospects of survival and reproduction are in immediate jeopardy.
Environment	The physical conditions which exist within the area which will be affected by a proposed project including land, air, water, minerals, flora, fauna, ambient noise, and objects of historical or aesthetic significance. The area involved shall be the area in which significant effects would occur either directly or indirectly as a result of the project. The "environment" includes both natural and man-made conditions.
Equivalent Noise Level (Leq)	A single-number representation of the fluctuating sound level in decibels over a specified period of time. It is a sound-energy average of the fluctuating level.
Erosion	The process by which material is removed from the earth's surface (including weathering, dissolution, abrasion, and transportation), most commonly by wind or water.
Evapotranspiration	Evapotranspiration is defined as the combination of evaporation and transpiration processes. Transpiration is the process by which water in the soil is taken by the roots of plants and evaporated through the leaves of the plants.
Event Mean Concentration (EMC)	An EMC represents the average load of a particular pollutant for a storm event. It does not consider fluctuations of loads within a storm event.
Exported Earth	Earth that cannot be used on-site and must be disposed of elsewhere is considered "exported." Imported fill is earth that is hauled to the site from another source.
Fault	A fracture in the earth's crust forming a boundary between rock masses that have shifted. An active fault is a fault that has moved recently and which is likely to move again. An inactive fault is a fault which shows no evidence of movement in recent geologic time and no potential for movement in the relatively near future.
Fauna	Animals
Flame Jet	A flame jet occurs when flammable gas is released from a pipe or vessel at high pressures, is ignited, and combusts as it is released. Because the release is under high pressure, the flame generated can reach a significant distance from the release point.
Flash Fire	A flash fire is the non-explosive combustion of a vapor cloud resulting from a release of flammable material into the open air, which, after mixing with air, contacts an ignition source. The primary dangers of a flash fire are thermal radiation and direct flame contact. Flash fires generally last no more than a few tenths of a second.
Fauna	Plants
Floor Area Ratio	The gross floor area permitted on a site divided by the total net area of the site, expressed in decimals to one or two places. For example, on a site with 10,000 net sq. ft. of land area, a Floor Area Ratio of 2.0 will allow a maximum of 20,000 gross sq. ft. of building floor area to be built.
Folds	Folds are bends or wrinkles in rock produced when the rock was in a plastic state.
Footprint (Building)	The outline of the ground area covered by a building.
Gaussian Model	A pollutant dispersion model based on the Gaussian dispersion equation, which assumes a constant fractional decrease in concentration per unit distance in the crosswind and vertical direction from a stationary or moving center of dispersion.
General Plan	A compendium of city or county policies regarding long-term development, in the form of maps and accompanying text. The General Plan is a legal document required of each local agency by the State of California Government Code Section 65301 and adopted by the City Council or Board of Supervisors.
Geotechnical Investigations	Geotechnical investigations examine the geologic conditions of a site to identify hazards and considerations that must be addressed in design.
Glare	A light source, either reflected or direct, that is annoying or distracting.
Grading	Alteration of existing slope and shape of the ground surface.
Gravity-Fed	An adjective used to describe a water distribution or wastewater collection system that relies on gravity to move the fluids through pipelines.

Term	Description
Greenhouse Effect	A term used to describe the warming of the Earth's atmosphere due to accumulated carbon dioxide and other gases in the upper atmosphere. These gases absorb energy radiated from the Earth's surface, "trapping" it in the same manner as glass in a greenhouse traps heat.
Gross Square Feet Ground Lurching	Total floor space within a building. Ground-lurching (and related lateral extension) is the horizontal movement of soil, sediments, or fill located on relatively steep embankments or scarps as a result of earthquake-induced ground shaking. Damage includes lateral movement of the slope in the direction of the slope face, ground cracks, slope bulging, and other deformations.
Groundwater	Water under the earth's surface, often confined to aquifers capable of supplying wells and springs.
Groundwater Recharge	The natural process of infiltration and percolation of rainwater from land areas or streams through permeable soils into water-holding rocks that provide underground storage (i.e., 'aquifers').
Growth Management	The use by a community of a wide range of techniques in combination to determine the amount, type, and rate of development desired by the community and to channel that growth into designated areas. Growth management policies can be implemented through growth rates, zoning, capital improvement programs, public facilities ordinances, urban limit lines, standards for levels of service, and other programs.
Habitat Hardpan	A place where a plant or animal naturally or normally lives or grows. A hardened or cemented soil horizon, or layer. The soil material may be gravelly, sandy or clayey, and it may be cemented by iron oxide, silica, calcium carbonate, or other substances.
Hazard Index	The sum of ratios of estimated exposures of toxic air pollutants and recognized safe exposures developed by regulatory agencies.
Hazardous Material	A material or form of energy that could cause injury or illness to persons, livestock, or the natural environment.
Health Hazard	Any non-cancer adverse impact on health.
High-Occupancy Vehicle (HOV)	A motor vehicle that is carrying at least a minimum specified number of passengers (normally at least two or more, sometimes three or more). It can be a bus, a taxi with passengers, or a car or van used for carpooling.
Hydrocarbons (HC)	These gases represent unburned and wasted fuel. They come from incomplete combustion of gasoline and from evaporation of petroleum fuels.
Impact	The effect, influence, or imprint of an activity on the environment. Impacts include: direct or primary effects which are caused by the project and occur at the same time and place; indirect or secondary effects which are caused by the project and are later in time or farther removed in distance, but are still reasonably foreseeable. Indirect or secondary effects may include growth-inducing effects and other effects related to induced changes in the pattern of land use, population density, or growth rate and related effects on air and water and other natural systems, including ecosystems.
Impervious Fraction Impervious Surface	The impervious fraction is the proportion of the surface that is not pervious to water. Ground surface that cannot be penetrated by water. Includes paved and compacted surfaces, as well as those covered by buildings.
Incinerators	Incinerators destroy hazardous waste through combustion.
Incremental Cancer Risk	Incremental cancer risk is defined as the difference in potential cancer risks between the three build alternatives or the No Action/No Project Alternative and baseline conditions (1996).
Indirect Employment	In reference to a particular project, employment provided by businesses that sell goods and services to the reference project.
Indirect Source	Any structure or installation, which attracts an activity which creates emissions of pollutants. For example, a major employment center, a shopping center, an airport, or a stadium can all be considered to be indirect sources.
Induced Employment	In reference to a particular project, employment provided by businesses that sell goods and services to employees of the reference project.
Infiltration	The introduction of underground water, such as groundwater, into wastewater collection systems. Infiltration results in increased wastewater flow levels.
Inflow	Surface water, such as rainfall runoff, that enters a wastewater collection system through manhole covers and joints or cracks in pipes. Inflow results in increased wastewater flow level.
Infrastructure	Permanent utility installations, including roads, water supply lines, sewage collection pipes, and power and communications lines.
Initial Study	A preliminary analysis prepared by the Lead Agency to determine whether an EIR or a Negative Declaration must be prepared, or to identify the significant environmental effects to be analyzed in an EIR.
Inspection & Maintenance	A program providing for periodic inspections of motor vehicles to ensure that emissions of specified pollutants are not exceeding established limitations.
Institutional Use	A non-profit or quasi-public use or institution such as a church, library, public or private school, hospital, or municipally owned or operated building, structure or land used for public purpose.
Intersection Capacity	The maximum number of vehicles that has a reasonable expectation of passing through an intersection in one direction during a given time period under prevailing roadway and traffic conditions.

7. List of Preparers

Term	Description
Intersection Capacity Utilization Method (ICU)	A method of analyzing intersection level of service by calculating a volume-to-capacity (V/C) ratio for each governing "critical" movement during a traffic signal phase. The V/C ratio for each phase is summed with the others at the intersection to produce an overall V/C ratio for the intersection as a whole. The V/C ratio represents the percent of intersection capacity utilized. For example, a V/C ratio of .85 indicates that 85% of capacity is being used.
Inversion Layer	A state in which the air temperature increases with increasing altitude, holding cooler surface air down along with its pollutants.
Jobs/Housing Balance; Jobs/Housing Ratio	The jobs/housing ratio divides the number of jobs in an area by the number of employed residents. A ratio of 1.0 typically indicates a balance. A ratio greater than 1.0 indicates a net in-commute; less than 1.0 indicates a net out-commute.
Joint Powers Authority (JPA)	A legal arrangement that enables two or more units of government to share authority in order to plan and carry out a specific program or set of programs that serves both units.
Kilowatt	A measure of the rate of electrical flow equal to one thousand watts.
Kilowatt-Hour	A measure of a quantity of electrical consumption equal to the power of one kilowatt acting for one hour.
Land Use	The purpose or activity for which a piece of land or its buildings is designed, arranged, or intended, or for which it is occupied or maintained.
Landfill	An area of land or an excavation in which wastes are placed for permanent disposal, and that is not a land application unit, surface impoundment, injection well, or waste pile.
Landslide	Any downslope mass movement of rock or soil, including rock falls, earth flows, and landslides in the technical sense (a soil mass that retains its essential internal arrangement and becomes disjointed from its subsurface interface).
Lateral Spreading	Deformation of very gently sloping ground (or virtually flat ground adjacent to an open body of water) that occurs when cyclic shear stresses caused by an earthquake induce liquefaction, reducing the shear strength of the soil and causing failure and "spreading" of the slope.
Lead Agency	The public agency which has the principal responsibility for carrying out or approving a project. The Lead Agency will decide whether an EIR or Negative Declaration will be required for the project and will cause the document to be prepared.
Level of Service (LOS)	The different operating conditions which occur in a lane or roadway when accommodating various traffic volumes. A qualitative measure of the effect of traffic flow factors such as special travel time, interruptions, freedom to maneuver, driver comfort, convenience and, indirectly, safety and operating cost. Levels of service are usually described by a letter rating system of A through F, with LOS A indicating stable traffic flow with little or no delays and LOS F indicating excessive delays and jammed traffic conditions.
Line Source	A long, narrow source of air pollutant emissions such as a roadway or runway.
Liquefaction	A geologic phenomenon in which surface and near-surface materials (s-oils, alluvium, etc.) behave like a liquid during seismic shaking, often causing failure of soils to support structures.
Local Water Suppliers	Local water suppliers are responsible for developing the local production portion of the preferred resource mix.
Lower Flammability Limit	The concentration of a compound in air below which the mixture will not catch on fire.
Materials Recovery Facilities (MRFS)	A permitted solid waste facility which sorts or separates, by hand or by use of machinery, solid wastes or materials for the purposes of recycling, composting or transformation.
Maximum Achievable Control Technology (MACT)	Emission limitations based on the best demonstrated control technology or practices in similar sources to be applied to major sources emitting one or more of the listed toxic air pollutants.
Maximum Credible Earthquake	The largest Richter magnitude (M) seismic event that appears to be reasonably capable of occurring under the conditions of the presently known geological framework.
Mitigation Measure	Action taken to reduce or eliminate environmental impacts. Mitigation includes: avoiding the impact altogether by not taking a certain action or parts of an action; minimizing impacts by limiting the degree or magnitude of the action and its implementation; rectifying the impact by repairing, rehabilitating, or restoring the affected environment; reducing or eliminating the impact over time by preservation and maintenance during the life of the action; and compensating for the impact by replacing or providing substitute resources or environments.
Mobile Sources	A source of air pollution that is related to transportation vehicles, such as automobiles or buses.
Multiplier Effect	A multiplier effect accounts for not just on-site construction jobs and expenditures, but those jobs and expenditures created due to the increase in workers in the area. For example, it would account for the on-site worker and the restaurant where he/she eats lunch.
Municipal Solid Waste	All solid wastes generated by residential, commercial, industrial, governmental, and institutional sources; at construction and demolition sites; at food processing facilities; and at treatment works for water and wastewater, which are collected and transported under the authorization of a jurisdiction or are self-hauled. Municipal solid waste does not include agricultural crop residues, animal manures, mining wastes, forestry wastes, or ash from industrial boilers, furnaces and incinerators.

Term	Description
Negative Declaration	A written statement by the Lead Agency briefly describing the reasons that a proposed project, not exempt from CEQA, will not have a significant effect on the environment and therefore does not require the preparation of an EIR.
Nitrogen Oxides (NOx)	Chemical compounds containing nitrogen and oxygen; react with volatile organic compounds, in the presence of heat and sunlight to form ozone. It is also a major precursor of acid rain. Nationwide, approximately 45 percent of NOx emissions come from mobile sources, 35 percent from electric utilities, and 15 percent from industrial fuel combustion.
Noise	Annoying, harmful, or unwanted sound.
Notice of Completion	A brief notice filed with the State of California Office of Planning and Research (OPR) by a Lead Agency as soon as it has completed a draft EIR and is prepared to send out copies for review.
Notice of Determination	A brief notice to be filed by a public agency after it approves or determines to carry out a project which is subject to the requirements of CEQA.
Notice of Preparation	A brief notice sent by a Lead Agency to notify the Responsible Agencies, Trustee Agencies, and involved federal agencies that the Lead Agency plans to prepare an EIR for the project. The purpose of the notice is to solicit guidance from those agencies as to the scope and content of the environmental information to be included in the EIR. Public agencies are free to develop their own formats for this notice.
Obtrusiveness	A visual quality of an object expressing its perceived visibility with respect to its surroundings.
Open Space	Any parcel or area of land or water essentially unimproved and set aside, dedicated, designated, or reserved for public or private use or enjoyment, or for the use and enjoyment of owners and occupants of land adjoining or neighboring such open space.
Outfall	An outfall is the point at which drainage conveyance facilities discharge.
Ozone	A compound consisting of three oxygen atoms, that is the primary constituent of smog. It is formed through chemical reactions in the atmosphere involving volatile organic compounds, nitrogen oxides, and sunlight. Ozone can initiate damage to the lungs as well as damage to trees, crops, and materials. There is a natural layer of ozone in the upper atmosphere which shields the earth from harmful ultraviolet radiation.
Peak Hours	In reference to transportation systems, the hour or hours during which the greatest traffic flow occurs.
Percent Slope	A common way of expressing the steepness of the slope of terrain, which is derived by dividing the change in elevation by the horizontal distance traversed. An increase of 20 feet elevation over a 100 foot distance is a 20 percent slope.
Perched Groundwater	Groundwater, generally shallow, that is isolated and not connected to an aquifer.
Percolation	Downward movement of groundwater through soil and bedrock.
Permeability (Soil)	That quality of the soil that enables it to transmit water or air.
Photochemical Smog	The atmospheric condition that results when reactive organic gases and nitrogen oxides emitted into the atmosphere react in the presence of sunlight to form other pollutants, such as oxidants.
Plant Community	A group of plant species commonly occurring together in roughly similar proportions.
Plume	The volume of air, surface water, or groundwater space containing any of the substance emitted from a point source.
PM₁₀	The current standard for measuring the amount of solid or liquid matter suspended in the atmosphere ("particulate matter including dust"). Refers to the amount of particulate matter over 10 micrometers in diameter. The smaller PM-10 particles penetrate to the deeper portions of the lung, affecting sensitive population groups such as children and people with respiratory diseases.
Point Source	A pollutant source that is fixed in location and that releases pollutants through a relatively small area, such as an air emissions stack or a pipeline outfall.
Point Source Discharges	Point source discharges are referred to as discharges originating from single sources, such as power and wastewater treatment plants.
Pool Fire	A pool fire occurs when a pool of flammable liquid is ignited. The actual combustion takes place within the material evaporating from a layer of liquid at the base of the fire. Pool fires can burn until the fuel is consumed. The primary dangers of a pool fire are thermal radiation and direct flame contact.
Precursor	A chemical compound that leads to the formation of a pollutant. Reactive organic gases and nitrogen oxides are precursors of photochemical oxidants.
Rare Species	A condition in which a species or subspecies, although not currently threatened with extinction, exists in such small numbers throughout its range that it may be endangered if the quality of its environment worsens.
Reactive Organic Gases (ROG)	Classes of hydrocarbons (olefins, substituted aromatics, and aldehydes) that are likely to react with ozone and nitrogen dioxide in the atmosphere to form photochemical smog.
Reasonably Available Control Measures (RACM)	A broadly defined term referring to technologies and other measures that can be used to control pollution; includes Reasonably Available Control Technology and other measures. In the case of PM-10, it refers to approaches for controlling small or dispersed source categories such as road dust, wood stoves, and open burning.
Reclaimed Water	Reclaimed water is wastewater that has been treated to the tertiary level. It meets the water quality standards specified by the California Department of Health Services (Title 22), but is not considered potable. Reclaimed water can be used for irrigation and industrial processes to reduce the demand for potable water.

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Term	Description
Recycling	Any of a variety of processes whereby waste is separated for reuse or reprocessing into a useful form.
Release	A release (or discharge) is considered to be above or below ground, including spills, leaking pipes and tanks.
Responsible Agency	A public agency which proposes to carry out or approve a project, for which a Lead Agency is preparing or has prepared an EIR or Negative Declaration. For the purposes of CEQA, the term "Responsible Agency" includes all public agencies other than the Lead Agency, which have discretionary approval power over the project.
Richter Scale	A logarithmic scale developed in 1935/36 by Dr. Charles F. Richter and Dr. Beno Gutenberg to measure earthquake magnitude by the amount of energy released, as opposed to earthquake intensity as determined by local effects on people, structures, and earth materials.
Risk Secondary Containment	Risk is a combined measure of the probability and severity of a potential scenario. Secondary containment prevents a release or spill from a tank from reaching the environment. It often takes the form of a berm or dike around an above ground storage tank.
Secondary Employment Sedimentation Significant Impact	Combined indirect and induced employment. Process by which material suspended in water is deposited in a body of water. As defined by the California Environmental Quality Act, a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project including land, air, water, minerals, flora, fauna, ambient noise, and objects of historic or aesthetic significance. Pursuant to CEQA, an economic or social change by itself shall not be considered a significant effect on the environment. A social or economic change related to a physical change may be considered in determining whether the physical change is significant.
Solid Waste	Any non-hazardous garbage, refuse or sludge, which is primarily solid but may also include portions of liquid, semi-solid or contained gaseous material resulting from residential, industrial, commercial, agricultural, mining operations, and community activities.
Source Control Bmp	Source control best management practices (BMP) is defined as any schedules of activities, prohibition of practices, maintenance procedures, managerial practices or operational practices that aim to prevent storm water pollution by reducing the potential for contamination at the source of pollution.
Source Separation	A process in which solid waste materials are produced as an autonomous waste product which are stored separately at the site of generation, or are physically separated from all other solid wastes into recyclable, compostable, or other fractions at the site of generation.
Spill Spoils State Implementation Plan (SIP)	An above ground release. Rock and soil removed during excavation. Document prepared by states, and submitted to EPA for approval, which identifies actions and programs to be undertaken by the State and its subdivisions to implement their responsibilities under the Clean Air Act.
Stationary Source	A source of air pollution that is not mobile, such as a heating plant or an exhaust stack from a laboratory.
Storm Water Runoff	Storm water runoff is a non-point source of water pollution since its origin cannot be attributed to a single identifiable source.
Structural BMP	Structural best management practices (BMP) is defined as any structural facility designed and constructed to mitigate the adverse impacts of storm water and urban runoff pollution (e.g. canopy, structural enclosure). The category may include both source control and treatment BMPs.
Sulfur Dioxide (SO₂)	A heavy, pungent, colorless air pollutant formed primarily by the combustion of fossil fuels. It is a respiratory irritant, especially for asthmatics and is the major precursor to the formation of acid rain.
Surface Water Target Organ	Water in lakes, streams or rivers, as distinct from subsurface groundwater. A target organ or organ target is an organ or tissue in the human body (e.g., liver, skin, lungs) that is harmed by exposure to a chemical at the lowest levels of exposure (chronic exposure), or is the first to be harmed by high levels of exposure (acute exposure).
Therm	The amount of energy necessary to raise 100,000 pounds of water one degree Fahrenheit.
Threatened Species	A species of animal or plant is endangered when its survival and reproduction in the wild are in immediate jeopardy from one or more causes, including loss of habitat, change in habitat, over-exploitation, predation, competition, disease, or other factors; or when, although not presently threatened with extinction, the species is existing in such small numbers that it may become endangered if its environment worsens. A species of animal or plant shall be presumed to be rare or endangered as it is listed in Sections 670.2 or 670.5, Title 14, California Code of Regulations; or Title 50, Code of Federal Regulations Sections 17.11 or 17.12 pursuant to the Federal Endangered Species Act as rare, threatened, or endangered.
Time-In-Mode	Time-in-Mode is the time that an emission source spends in a specific mode of operation.

Term	Description
Transportation Control Measures (TCMS)	Steps taken by a locality to adjust traffic patterns (e.g., bus lanes, right turn on red) or reduce vehicle use (ride-sharing, high occupancy vehicle lanes) to reduce vehicular emissions of air pollutants.
Transportation Systems Management (TSM)	A program for encouraging alternatives to private automobile use, such as increased reliance on public transit, carpooling, and bicycles. Also, sometimes call "Transportation Demand Management".
Treatment Control BMP	Treatment control BMP is defined as any engineered system designed to remove pollutants by simple gravity setting of particulate pollutants, filtration, biological uptake, media adsorption or any other physical, biological, or chemical process.
Trip Assignment Trip Generation	The allocation of vehicle trips to available routes between locations in a traffic study area. The number of vehicle trip ends associated with (i.e., produced by) a particular land use or traffic study site.
Trustee Agency	A state agency having jurisdiction by law over natural resources affected by a project which are held in trust for the people of the State of California. Trustee Agencies include: (a) The California Department of Fish and Game with regard to the fish and wildlife of the state, to designated rare or endangered native plants, and to game refuges, ecological reserves, and other areas administered by the department. (b) The State Lands Commission with regard to state owned "sovereign" lands such as the beds of navigable waters and state school lands. (c) The State Department of Parks and Recreation with regard to units of the State Park System. (d) The University of California with regard to sites within the Natural Land and Water Reserves System.
Upset	An upset is an accidental occurrence involving a substantial release of a toxic or flammable substance to the environment.
Urban Runoff	Urban runoff is a non-point source of water pollution since its origin cannot be attributed to a single identifiable source.
Vehicle Miles Traveled (VMT)	A measure of both the volume and extent of motor vehicle operation; the total number of vehicle miles traveled within a specified geographical area (whether the entire country or a smaller area) over a given period of time.
Vehicle Trip Ends	A single or one-direction vehicle movement with either the origin or destination inside a traffic study site.
View Corridor	Long, axial vistas formed by regularly placed buildings or landscaping.
View Point	A location from which a site is visible.
Viewshed	The geographic area from which a site is visible; a collection of viewpoints.
Volatile Organic Compounds (VOCs)	A group of chemicals that react in the atmosphere with nitrogen oxides in the presence of heat and sunlight to form ozone; does not include methane and other compounds determined by EPA to have negligible photochemical reactivity. Examples of VOCs include gasoline fumes and oil-based paints.
Volume-To-Capacity Ratio (V/C)	In reference to public services or transportation, ratio of peak hour use to capacity.
Waste Reduction	The reduction of waste stream volume prior to or after entering the waste stream.
Waste Stream	Any and all waste that has been generated and is being processed toward permanent disposition.
Water Reclamation Plant	Water reclamation plants treat wastewater to a higher level so that it can be reused (as reclaimed water) for irrigation and industrial purposes.
Watershed	The area of a landscape from which surface runoff flows to a given point.
Wetlands	An area at least periodically wet or flooded; where the water table stands at or above the land surface (bogs and marshes). Also those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.
Wilderness	Wilderness is an area of undeveloped land retaining its primeval character and influence, without permanent improvements or human habitation, which is protected and managed so as to preserve its natural conditions and which (1) generally appears to have been affected primarily by the forces of nature, with the imprint of man's work substantially unnoticeable; (2) has outstanding opportunities for solitude or a primitive and unconfined type of recreation; (3) has at least five thousand acres of land or is of sufficient size as to make practicable its preservation and use in an unimpaired condition; and (4) may also contain ecological, geological, or other features of scientific, education, scenic, or historical value.
Wildlife Corridors	A natural corridor, such as an undeveloped ravine, that is frequently used by wildlife to travel from one area to another.
Windrow	A plantation of trees or a structure to reduce the force of a prevailing wind.

7.6 Abbreviations/Acronyms

This section contains the definition of various abbreviations and acronyms that appear throughout the Draft EIS/EIR document.

Convention/Abbreviation	Definition
$\mu\text{g}/\text{m}^3$	Microgram Per Cubic Meter
AAM	Annual Arithmetic Mean
AC	Air Conditioning
AC	Alternating Current
Ac-ft/yr	Acre-feet (of water) per year
ACGIH	American Conference on Governmental Industrial Hygiene
ACHP	Advisory Council on Historic Preservation
ACM	Asbestos Containing Materials
ACT	Airfreight Cargo Tons
ACTI	Advanced Computational Technology Initiative (U.S. Dept. of Energy)
ACU	Air Conditioning Unit
ADT	Average Daily Traffic
ADT	Average Daily Trips
AF	Acre-Feet
AGM	Annual Geometric Mean
AHM	Acutely Hazardous Materials
AHPA	Archaeological and Historic Preservation Act of 1974
AIC	Oral Chronic Allowable Intake
ALP	Airport Layout Plan
ALPS	Airport Landside Planning System
ALS	Approach Lighting System
ALSF	Approach Lighting System Flashers
ALUCs	Airport Land Use Commissions
ANMP	Aircraft Noise Mitigation Program
AOA	Air Operation Area
APCD	Air Pollution Control Districts (single county)
APE	Area of Potential Effect (cultural resources)
APM	Automated People Mover or Airport People Mover
APU	Auxiliary Power Unit
AQMD	Air Quality Management District
AQMP	Air Quality Management Plan
ARCHIE	Automated Resource for Chemical Hazard Evaluation
ARDF	Airport Research and Development Foundation
ARFF	Aircraft Rescue and Firefighting
ARM	Ambient Ratio Method
As	Arsenic
ASL	Above Sea Level
ASV	Annual Service Volume
ASPIS	Abandoned Site Program Information System
ASTs	Aboveground Storage Tanks
ASU	Air Start Unit
ATA	Airline Transportation Association
ATCS	Adaptive Traffic Control System
ATCT	Air Traffic Control Tower
ATO	Airport Ticket Office
ATP	Archaeological Treatment Plan
ATSAC	Automated Traffic Surveillance and Control
ATSDR	Agency for Toxic Substances and Disease Registry
Avgas	Aviation Gasoline
AVR	Average Vehicle Ridership
AWP	Annual Work Plan
BACT	Best Available Control Technology
BASIN	South Coast Air Basin
bbf	Barrels
BEP	Business Emergency Plan
BFSF	Bulk Fuel Storage Facility
bhp	Brake Horsepower
BMPs	Best Management Practices
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
BTS	Bureau of Transportation Statistic
BTUs	British Thermal Units
BUR	Burbank-Glendale-Pasadena Airport
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standard
CADD	Computer Aided Design Drafting

Convention/Abbreviation	Definition
CAG	Cancer Assessment Group
CAL	Continental Airlines
CalARP	California Accidental Release Prevention Program
CALEPA	California Environmental Protection Agency
CALINE	California Line Source Model
CALMPRO	Calms Processing Model
CalOSHA	California Occupational Safety and Health Administration
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CATEF	California Air Toxics Emissions Factors
CBD	Central Business District
CCA	California Coastal Act
CCC	California Coastal Commission
CCSCE	Center for the Continuing Study of the California Economy
CDC	California Department of Conservation
CDFG	California Department of Fish and Game
CDHS	California Department of Health Services
CDM	Camp Dresser & McKee Inc.
CDMG	California Department of Conservation, Division of Mines and Geology
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Emergency Response, Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information Systems
CESA	California Endangered Species Act
CFR	Code of Federal Regulations
CIS	Coastal Interceptor Sewer
CISWMPP	City Solid Waste Management Policy Plan
CIWMB	California Integrated Waste Management Board
CIWMP	County Integrated Waste Management Plan
CMP	Congestion Management Plan
CNDDDB	California Natural Diversity Data Base
CNEL	Community Noise Equivalent Level
CNG	Compressed Natural Gas
CNPS	California Native Plant Society
CNS	Central Nervous System
CO	Carbon Monoxide
COPCs	Chemicals of Potential Concern
COS	Central Outfall Sewer
cp	Candle Power
CPA	Community Plan Area (City of Los Angeles)
CPUC	California Public Utilities Commission
CRA	Colorado River Aqueduct
CRAVE	Cancer Review and Validation Effort
CSE	Countywide Siting Element
CSF	Cancer Slope Factor
CT	Cooling Tower
CTA	Central Terminal Area
CTPP	Census Transportation Planning Packet
CUP	Central Utility Plant
CVR	Commercial Vehicle Report
CZMA	Coastal Zone Management Act
D/C	Demand to Capacity
dB	Decibel
dBA	Decibel A-Weighted
DC	Direct Current
DEA	Drug Enforcement Agency
DEGADIS	Dense Gas Dispersion
DEIR	Draft Environmental Impact Report (CEQA)
DEIS	Draft Environmental Impact Statement (NEPA)
DFSF	Day Fuel Storage Facility
DMA	Dimethyl Arsenic Acid
DNA	Deoxyribonucleic Acid
DOGGR	California Department of Conservation, Division of Oil, Gas, and Geothermal Resources
DOT	U.S. Department of Transportation
DS	Distributing Stations
DTSC	Department of Toxic Substances Control
DU	Dwelling Units
DWP	Los Angeles Department of Water and Power
EA	Environmental Assessment (NEPA)
EAD	Environmental Affairs Department
EDMS	Emissions and Dispersion Modeling System

7. List of Preparers

Convention/Abbreviation	Definition
EHS	Extremely Hazardous Substances
EIR	Environmental Impact Report (CEQA)
EIS	Environmental Impact Statement (NEPA)
EIS/EIR	Joint Environmental Impact Statement/Environmental Impact Report
EMB	Environmental Management Bureau
EMFAC2000	California Emission Factor Model (Version 2000)
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System
ERPG	Emergency Response Planning Guidelines
ESA	Federal Endangered Species Act
ESADDI	Estimated Safe and Adequate Daily Dietary Intake
ESB Recovery Plan	Recovery Plan for the El Segundo Blue Butterfly (<i>Euphilotes battoides allyni</i>)
ESHA	Ecologically Sensitive Habitat Area
FAA	Federal Aviation Administration
FAAEED	FAA Engine Emissions Database
FAEED	FAA Aircraft Engine Emission Database
FAR	Federal Aviation Regulation
FBI	Federal Bureau of Investigation
FBO	Fixed Base Operator
fc	Foot Candle
FEIR	Final Environmental Impact Report (CEQA)
FEIS	Final Environmental Impact Statement (NEPA)
FEMA	Federal Emergency Management Agency
FHA	Federal Housing Administration
FHP	Free Hydrocarbon Product
FHWA	Federal Highway Administration
FICAN	Federal Interagency Committee on Aviation Noise
FIRE	Factor Information Retrieval
FIRMs	Flood Insurance Rate Maps
FIS	Federal Inspection Services
FONSI	Finding of No Significant Impact (NEPA)
FPPA	Farmland Protection Policy Act
FR	Federal Register
FSRP	Facility Specific Response Plan
FWPCA	Federal Water Pollution Control Act
g	Gram
GA	General Aviation
GaAs	Gallium Arsenide
GAV	Ground Access Vehicles
GIS	Geographic Information System
GMA	Growth Management Area
gpd	Gallons per Day
gpm	Gallons per Minute
GPU	Ground Power Unit
GRE	Ground Run-Up Enclosure
GSE	Ground Support Equipment
gsf	Gross Square Feet
GTC	Ground Transportation Center
GVW	Gross Vehicle Weight
HA	Health Advisory
HABS	Historic American Building Survey
HAP	Hazardous Air Pollutant
HAS	Hazardous Substance Account
HAZWOPER	Hazardous Waste Operations and Emergency Response
HC	Hydrocarbon(s)
HCM	Highway Capacity Manual
HCP	Habitat Conservation Plan
HCS	Hazard Communication Standard
HEAST	Health Effect Assessment Summary Tables
HEP	Habitat Evaluation Procedure
HF	Hydrogen Fluoride
HHDT	Heavy Heavy Diesel Truck
HHRA	Human Health Risk Assessment
HM	Hazardous Materials
HMBP	Hazardous Material Business Plan
HMP	Habitat Management Plan
HOV	High Occupancy Vehicle
HPOS	Historic Preservation Overlay Zone
HR&A	Hamilton, Rabinovitz & Alschuler, Inc.
HRA	El Segundo Blue Butterfly Habitat Restoration Area
HR&A	Hamilton, Rabinovitz & Alschuler, Inc.
HRG	Historic Resources Group
HTP	Hyperion Treatment Plant

Convention/Abbreviation	Definition
HV	Habitat Values
HVAC	Heating Ventilation and Air Conditioning
HWCL	Hazardous Waste Control Law
IARC	International Agency for Research on Cancer
IC	Internal Combustion
ICAO	International Civil Aviation Organization
IIPP	Injury and Illness Prevention Program
IMC	Instrument Meteorological Conditions
I-O	Input-Output (analysis or model)
IPWP	Integrated Plan for the Wastewater Program
IRIS	Integrated Risk Information System
IRP	Integrated Water Resources Plan
IS	Industrial Stations
ISCST3	Industrial Source Complex Short Term Model
ISWMO	City of Los Angeles Integrated Solid Waste Management Office
ITS	Intelligent Transportation System
IWRP	Integrated Water Resource Plan
JIT	Just-in-Time
JKH	JKH Mobility Services, a division of Kimley-Horn and Associates, Inc.
kg	Kilogram
KHA	Kimley-Horn and Associates, Inc.
KV	Kilovolt
KW	Kilowatt
kWh	Kilowatt-Hour
L&WCF	Land and Water Conservation Fund
LA	Los Angeles
LACDPW	Los Angeles County Department of Public Works
LACFD	Los Angeles County Fire Department
LACSD	County Sanitation Districts of Los Angeles County
LADHS	Los Angeles County Department of Health Services
LADOA	Los Angeles Department of Airports
LADOT	Los Angeles Department of Transportation
LADPW	Los Angeles Department of Public Works
LAFCO	Local Agency Formation Commission
LAFD	Los Angeles Fire Department
LAGWRP	Los Angeles-Glendale Water Reclamation Plant
LAPD	Los Angeles Police Department
LARWQCB	Los Angeles Regional Water Quality Control Board
LASDDM	Los Angeles Storm Drain Design Manual
LAUSD	Los Angeles Unified School District
LAWA	Los Angeles World Airports
LAWAPB	Los Angeles World Airports Police Bureau
LAWTFC	Los Angeles West Terminal Fuel Corporation
LAX	Los Angeles International Airport
LAXMP	Los Angeles International Airport Master Plan
LCD	Likely Collateral Development
LCP	Local Coastal Program
LDA	Light Duty Automobile(s)
Ldn	Day-Night Average Sound Levels
LDT	Light Duty Truck(s)
LEL	Lower Explosive Limit
Leq	Equivalent Noise Level
LEV	Low Emissions Vehicle(s)
LGB	Long Beach Airport
LHC	Liquid Hydrocarbons
LHGT	Light Heavy Gasoline Truck
LNG	Liquefied Natural Gas
LOAEL	Lowest Observed Adverse Effect Level
LOS	Level of Service
LRT	Light Rail Transit
LS	Less Than Significant
LTO	Landing And Takeoff Operation
LTP	Long Term Parking
LUST	Leaking Underground Storage Tank
M	Magnitude
m	Meter
MAP	Million Annual Passengers
MATES-II	Multiple Air Toxics Exposure Study in the South Coast Air Basin
MCE	Maximum Credible Earthquake
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
MCY	Motorcycle
MDT	Medium Duty Truck(s)

7. List of Preparers

Convention/Abbreviation	Definition
MEI	Maximally Exposed Individual
mgd	Million Gallons per Day
MHDT	Medium Heavy Diesel Truck
MHGT	Medium Heavy Gasoline Truck
MHS	Materials Handling System
MMA	Monomethyl Arsenic Acid
mmBtu	Millions of British Thermal Units
MMCF	Million Cubic Feet
MMI	Modified Mercalli Intensity
MMT	Methylcyclopentadienyl Manganese Tricarbonyl
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
mph	Miles Per Hour
MRZ	Mineral Resource Zone
MSA	Metropolitan Statistical Area
MSDS	Material Safety Data Sheets
MSF	Million Square Feet
msl	Mean Sea Level
MTA	Metropolitan Transit Authority
MVEI (7G)	California Motor Vehicle Emissions Inventory Model (Version 7G)
Mw	Moment Magnitude
MWD	Metropolitan Water District
MWH	Mega Watt Hours
NA	Not Analyzed or Not Applicable
NA/NP	No Action/No Project Alternative
NAAQS	National Ambient Air Quality Standards
NBEG	Narrow-Body Equivalent Gates
NCCP	Natural Communities Conservation Plan
NCOS	North Central Outfall Sewer
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollutants
NFIP	National Flood Insurance Program
NFPA	National Fire Protection Association
NHANES	National Health and Nutrition Examination Survey
NHPA	National Historic Preservation Act of 1966, as amended
NIFZ	Newport Inglewood Fault Zone
NLA	New Large Aircraft
NM	Not Modeled
NO ₂	Nitrogen Dioxide
NOAA	National Oceanic and Atmospheric Administration
NOAELs	No Observable Adverse Effect Levels
NOC	Notice of Completion (CEQA)
NOD	Notice of Determination (CEQA)
NOI	Notice of Intent (NEPA)
NOP	Notice of Preparation (CEQA)
NORS	North Outfall Relief Sewer
NOS	North Outfall Sewer
NOV	Notice of Violation
NO _x	Oxides of Nitrogen
NPDES	National Pollution Discharge Elimination System
NPDWR	National Primary Drinking Water Regulations
NPIAS	National Plan of Integrated Airport Systems
NPL	National Priorities List
NRHP	National Register of Historic Places
NTSB	National Transportation Safety Board
NURP	Nationwide Urban Runoff Program
NWI	National Wetlands Inventory
NWS	National Weather Service
O/D	Origin/Destination
O ₃	Ozone
OAQPS	Office of Air Quality Planning and Standards (U.S. EPA)
OCA	Off-Site Consequence Analysis
OEHHA	California Office of Environmental Health Hazard Assessment
OES	Office of Emergency Services
OFA	Object Free Areas
OHP	California State Office of Historic Preservation
ONT	Ontario International Airport
OPA	Oil Pollution Act
OSHA	Occupational Safety and Health Administration
OSPR	Oil Spill Prevention and Response
OXR	Oxnard Airport
PAH	Polynuclear Aromatic Hydrocarbon
Pax	Passengers

Convention/Abbreviation	Definition
Pb	Lead
PCB	Polychlorinated Biphenyls
PCC	Portland Cement Concrete
PCE	Perchloroethylene
PCE	Passenger Car Equivalent
PCR	Planning Consultants Research
PELs	Permissible Exposure Limits
PFCs	Passenger Facility Charges
PHGA	Peak Horizontal Ground Accelerations
PM	Particulate Matter
PM ₁₀	Particulate Matter with an Equivalent Aerodynamic Diameter of 10 Micrometers or Less
PM _{2.5}	Particulate Matter with an Equivalent Aerodynamic Diameter of 2.5 Micrometers or Less
PMAWD	Peak Month Average Weekday
PMD	Palmdale Regional Airport
POTW	Publicly-Owned Treatment Works
ppb	Parts Per Billion
Pphpd	Passengers per hour per day or per direction
ppm	Parts per million (10 ⁶) by volume or weight
psi	Pounds per Square Inch
PSP	Palm Springs International Airport
Q	Qualifying
RAC	Rent-A-Car
RADAM	Regional Air Demand Allocation Model
R&D	Research and Development
RMCL	Recommended Maximum Contaminant Level
RCRA	Resource Conservation and Recovery Act
REIL	Runway End Identifier Lights
REL	Reference Exposure Level
REMI	Regional Econometric Models, Inc.
RfC	Reference Concentration
RfD	Reference Dose
RIMS II	Regional Input-Output Modeling System
RMP	Risk Management Plan
RMPP	Risk Management Prevention Plan
ROD	Record of Decision (NEPA)
ROG	Reactive Organic Gas(es)
ROW	Right of Way
RPZ	Runway Protection Zones
RQ	Reportable Quantity
RSA	Runway Safety Area
RS-N	Receiving Station N
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
S	Significant
SANDAG	San Diego Association of Governments
SB	Senate Bill
SBD	San Bernardino International Airport
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SCE	Southern California Edison
SCEs	Sister Chromatid Exchanges
SCF	Standard Cubic Feet
SD	Soil Mixing Depth
SDWA	Safe Drinking Water Act
SEL	Sound Exposure Level
SERRF	Southeast Resource Recovery Facility
SF	Square feet
SGR	Student Generation Rate
SHPO	State Historic Preservation Officer
SIC	Standard Industrial Classification
SIMMOD	Simulation Model
SIP	State Implementation Plan
SMARA	Surface Mining and Reclamation Act
SMBRP	Santa Monica Bay Restoration Project
SNA	John Wayne Airport
SNAP	Space Needs Analysis Program
SO ₂	Sulfur Dioxide
SO _x	Oxides of Sulfur
SP	Southern Pacific
SPCC	Spill Prevention Control and Countermeasure

7. List of Preparers

Convention/Abbreviation	Definition
SPECIATE	Speciation Data Systems
SPT	Standard Penetration Test
SRCRD	Solid Resources Citywide Recycling Division
SRO	Single Room Occupancy
SRRE	Source Reduction and Recycling Element
SSM	Seismic Source Models
STEL	Short Term Exposure Level
STIP	State Transportation Improvement Program
SULEV	Super Ultra Low-Emission Vehicle
SUV	Sport Utility Vehicle
SWGS	Solid Waste Generation Study
SWIS	Solid Waste Information System
SWLF	Solid Waste Landfills List
SWP	State Water Project
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
SYNCHRO	Trafficware Signal Timing Software
TAC	Toxic Air Contaminant
TAF	Terminal Area Forecasts
TAPA	Toxic Air Pollutant Assessment
TAPs	Toxic Air Pollutants
TBIT	Tom Bradley International Terminal
TCDD	Tetrachloro-Dibenzo-P-Dioxin
TCE	Trichloroethylene
TCM	Transportation Control Measures
TCMP	Traffic Congestion Management Plan
TDM	Transportation Demand Management
TEAM	Total Exposure Assessment Methodology
TIM	Time In Mode
TKN	Total Kjendahl Nitrogen
TLV	Threshold Limit Values
TMDLs	Total Maximum Daily Loads
TPH	Total Petroleum Hydrocarbons
TPHG	Total Petroleum Hydrocarbons as Gasoline
TPY	Tons Per Year
TRI	Toxic Chemical Release Inventory
TSCA	Toxic Substances Control Act
TSD	Treatment, Storage, and Disposal
TSDP	Treatment/Storage/Disposal Facility
TSM	Transportation Systems Management
TSP	Total Suspended Particulates
TSS	Total Suspended Solids
TWA	Time Weighted Average
TWRP	Tillman Water Reclamation Plant
UBC	Uniform Building Code
UBC	Used Beverage Containers
UBD	Urban Bus Diesel
UCLA	University of California, Los Angeles
UFC	Uniform Fire Code
UMTA	Urban Mass Transportation Administration
U.S.	United States
USACOE	U. S. Army Corps of Engineers
USAF	U. S. Airforce
USC	United States Code
USDA	U. S. Department Of Agriculture
USDOT	U. S. Department Of Transportation
USEPA	United States Environmental Protection Agency
USFWS	U. S. Fish and Wildlife Service
USGS	U. S. Geologic Survey
USTs	Underground Storage Tanks
UTAHS	Underground Tanks and Hazardous Substances
UTBST	Underground Transmission Business Support Team
UWMP	Los Angeles Urban Water Management Plan
V/C	Volume-to-Capacity Ratio
VFR	Visual Flight Rules
VHT	Vehicle Hours Traveled
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
VP Recovery Plan	Recovery Plan for Vernal Pools of Southern California
VPD	Vehicles per Day
vph	Vehicles Per Hour
WBMWD	West Basin Municipal Water District
WBWRP	West Basin Water Reclamation Plant

Convention/Abbreviation	Definition
WCBBP	West Coast Basin Barrier Project
WDR	Waste Discharge Requirements
West Terminal CUP	New West Terminal Central Utilities Plant
WLBT	Wilmington Liquid Bulk Terminal
WP	West Parking
WPDRP	Westchester-Playa Del Rey Plan
WT	West Terminal
WTA	West Terminal Area
WWRP	Westside Water Recycling Project
XATEF	Crosswalk of Air Toxic Emission Factors
ZEV	Zero Emission Vehicle

7.7 Index

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