

# 2002 Long Range Development Plan Final Environmental Impact Report

State Clearinghouse Number 2002031115

# University of California, Los Angeles

February 2003

**VOLUME 1A** 2002 Long Range Development Plan Draft EIR Technical Appendices

## Volume I a

# University of California, Los Angeles 2002 Long Range Development Plan Appendices to the Draft Environmental Impact Report SCH No. 2002031115

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with the assistance of

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## **FEBRUARY 2003**

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## PREFACE

This document, in its entirety (Volumes 1, 1a, 2, 3, and 3a), constitutes the Final Environmental Impact Report (Final EIR) for the 2002 Long Range Development Plan (LRDP) and Northwest Housing Infill Project (NHIP). A Final EIR is defined by Section 15362(b) of the California Environmental Quality Act (CEQA) *Guidelines* as "...containing the information contained in the Draft EIR; comments, either verbatim or in summary, received in the review process; a list of persons commenting; and the response of the Lead Agency to the comments received."

This 2002 LRDP Final EIR is composed of five volumes. They are as follows:

- Volumes 1 and 1a 2002 LRDP Draft EIR and Technical Appendices—These volumes describe the existing environmental setting on the UCLA campus and in the vicinity of the campus; analyze potential impacts on that setting due to implementation of the 2002 LRDP; identify mitigation measures that could avoid or reduce the magnitude of significant impacts; evaluate cumulative impacts that would be caused by the project in combination with other future projects or growth that could occur in the region; analyze growth-inducing impacts; and provide a full evaluation of the alternatives to the proposed project that could eliminate, reduce, or avoid project-related impacts. Refer to the Contents of Volume 1 for a complete list of appendices. Any text revisions due to corrections of errors, or resulting from comments received on the Draft EIR, are included in Volume 3.
- Volume 22002 LRDP/NHIP Draft EIR and Technical Appendices—This volume<br/>provides project-specific analysis of the NHIP, a component of the 2002 LRDP.<br/>This volume describes the existing environmental setting on the NHIP project site<br/>and in the vicinity of the project site; analyzes potential impacts on that setting due<br/>to construction and operation of the NHIP; identifies mitigation measures that<br/>could avoid or reduce the magnitude of significant impacts; and provides a full<br/>evaluation of the alternatives to the proposed project that could eliminate, reduce,<br/>or avoid project-related impacts. Refer to the Contents of Volume 2 for a<br/>complete list of appendix titles. Any text revisions due to corrections of errors,<br/>or resulting from comments received on the Draft EIR, are included in Volume 3.

### Volumes 3 and 3a Draft EIR Text Changes, Responses to Comments, and Mitigation Monitoring and Reporting Programs—This volume contains an explanation of the format and content of the Final EIR; all Draft EIR text changes; a complete

list of all persons, organizations, and public agencies that commented on the Draft EIR; copies of the actual comment letters; the transcript from the public hearing; the Lead Agency's responses to all comments; and the Mitigation Monitoring and Reporting Programs (MMRPs).

### **REVIEW PROCESS**

The Draft LRDP and EIR for the 2002 LRDP, including the NHIP, was issued on October 31, 2002, and initially circulated for public review and comment for a 46-day period scheduled to end on December 16, 2002. In response to a request from the community, the public review and comment period was extended an additional 4 days to December 20, 2002. During the public review period, copies of the Draft EIR were distributed to public agencies through the State of California, Office of Planning and Research. UCLA also directly distributed the document to over eighty individuals, agencies, and organizations. Copies of the Draft EIR were available for review at two on-campus libraries and nine off-campus libraries. In addition, the Draft EIR was available on UCLA's website and at the UCLA Capital Programs Facility, which is located at 1060 Veteran Avenue, Third Floor, on the UCLA campus.

Although not required by CEQA or the CEQA Guidelines, a Community Information and EIR Scoping Meeting for the proposed project was also held on April 6, 2002, to solicit input from interested agencies, individuals, and organizations regarding the range of actions, alternatives, mitigation measures, and significant effects to be analyzed in this EIR. A public hearing was also held on November 20, 2002, on the UCLA campus during which the public was given the opportunity to provide comments on the Draft EIR. Nine persons presented verbal comments on the proposed project and the Draft EIR during the public hearing.

### **REVISIONS TO THE DRAFT EIR**

Revisions to the text of the Draft EIR have been made in Volume 3 of this Final EIR, with strikethrough text for deletions and <u>double underline</u> text for additions.

### MITIGATION MONITORING AND REPORTING PROGRAMS

An MMRP will be adopted by The Board of Regents of the University of California (The Regents) for both the 2002 LRDP and the NHIP, as required for compliance with Sections 21081(a) and 21081.6 of the Public Resources Code. The proposed MMRPs are included in their entirety in Volume 3a (Chapter IV and Chapter V) of this Final EIR. All 2002 LRDP and NHIP mitigation measures included in the 2002 LRDP Final EIR for this project would be monitored by the appropriate campus entity, and reported on an annual basis. Appendix I June 13, 2001, NOP and Comment Letters

### **Federal Express**

June 13, 2001

State of California Office of Planning and Research 1400 Tenth Street, Room 222 Sacramento, CA 95814

### NOTICE OF PREPARATION

### DRAFT SUBSEQUENT ENVIRONMENTAL IMPACT REPORT

<b>Project Title:</b>	Long Range Development Plan Update		
Project Number:	948365		
Lead Agency:	University of California		
Project Location:	University of California, Los Angeles campus		
County:	Los Angeles		

**Project Description:** The University of California, Los Angeles proposes to update the campus' Long Range Development Plan, previously adopted by The Regents of the University of California in November 1990. The Long Range Development Plan Update ("LRDP Update" or "Plan Update") will be undertaken to address anticipated growth in student enrollment.

The State of California Department of Finance and the California Public Postsecondary Education Commission anticipate substantial population growth in the State of California over the next decade. The University proposes to accommodate this increase in order to meet the State's needs and sustain its commitment to ensure access to public higher education under the Master Plan for Higher Education in California. It is anticipated that UCLA could experience an increase in enrollment of approximately 4,000 full time equivalent students by the year 2010. This potential increase would exceed the student enrollment assumptions in the adopted LRDP. Accordingly, UCLA will update the LRDP and prepare a Subsequent Environmental Impact Report in accordance with Section 21080.09 of the California Environmental Quality Act ("the LRDP SEIR").

The LRDP SEIR will incorporate relevant information and analyses from the Final EIR on the LRDP (SCH#89072618), certified by The Regents of the University of California in November,

1990 ("1990 LRDP FEIR"). The 1990 LRDP FEIR previously analyzed the environmental consequences of a proposed 3.71 million square feet of new development between 1990 and 2005. The LRDP SEIR will evaluate the anticipated enrollment increase and the completion, by approximately 2010, of the previously analyzed development program, of which approximately 1.9 million gross square feet remains. Furthermore, the LRDP SEIR will incorporate the existing LRDP mitigation measures as appropriate, including the limits on the campus' overall vehicular trip generation. By so doing, the LRDP Update will extend the efficacy of the 1990 LRDP from the original 2005 horizon year to 2010 by maintaining the overall development square footage and trip generation limits of the Plan while accommodating an increased level of enrollment growth.

The LRDP SEIR will consider the potential environmental effects of the development of approximately 1.9 million square feet of space for academic, research, housing and other uses on campus. In addition, the LRDP SEIR will serve as a program EIR for the consideration of subsequent actions consistent with the LRDP Update. As part of the environmental analysis for the LRDP Update, the University will evaluate all of the mitigation measures identified in the 1990 LRDP FEIR to determine whether new or modified mitigation measures are necessary to reduce the potential significant impacts of campus development through 2010.

In compliance with the State and University of California guidelines for implementation of the California Environmental Quality Act, this Notice of Preparation is hereby sent to inform you that the University of California, Los Angeles is preparing a Draft Subsequent Environmental Impact Report on the above-named project. Potential environmental effects of the proposed LRDP Update for which detailed analyses will be conducted include: aesthetics, air quality, biological resources, cultural resources, geology and soils, hazards and hazardous materials, hydrology and water quality, land use and planning, noise, population and housing, public services, recreation, transportation and traffic, utilities and service systems. Elaboration of the potential environmental issues to be considered in each area are summarized in an Attachment to this NOP. The Draft LRDP SEIR will also include analysis of project alternatives and cumulative effects.

As Lead Agency we need to know the views of your agency as to the scope and content of the environmental information which is germane to your agency's statutory responsibilities in connection with the proposed project.

Due to the time limits mandated by State law, your response must be sent at the earliest possible date, but not later than 30 days after receipt of this Notice. A public information and EIR scoping meeting will be scheduled at UCLA in the near future and will be advertised in local newspapers and by direct mailing to notify interested individuals and agencies. Please designate a contact person in your agency and send your response to me at the address below.

Sincerely,

Tova Lelah

Assistant Director Environmental Planning UCLA Capital Programs 1060 Veteran Avenue Los Angeles, CA 90095-1365 (310) 206-5482

Attachment 1:	Potential Environmental Issues		
Attachment 2:	Document Transmittal Form		
Attachment 3:	Regional and campus location maps		

cc:

General Manager Frankie Bannerjee, Los Angeles Department of Transportation Mr. Stephen Buswell, California Department of Transportation Mr. Dennis Dickerson, California Regional Water Quality Control Board Ms. Viviane Doche, Southern California Association of Governments Councilmember Michael Feuer, 5<sup>th</sup> District Ms. Kathryn Higgins, SCAQMD Honorable Paul Koretz, State Assembly, 42<sup>nd</sup> District Honorable Sheila James Kuehl, State Senate, 23<sup>rd</sup> District Councilmember Cindy Miscikowski, 11<sup>th</sup> District Superintendent Roy Romer, Los Angeles Unified School District Honorable Henry Waxman, U.S. Congress, California, 29<sup>th</sup> District State of California, Department of Fish and Game

### **City Planning Departments**

Community Planning and Development, City of Santa Monica Planning Department, City of Los Angeles Planning Department, City of Beverly Hills Planning Department, Culver City

### **County Agencies**

County of Los Angeles, Regional Planning, Environmental Section Los Angeles County Clerk

### University of California

Assistant Vice Chancellor Max Benavidez Administrative Vice Chancellor Peter W. Blackman Assistant Vice President Michael Bocchicchio Executive Director Diana Brueggemann Assistant Vice Chancellor Glyn Davies Vice Chancellor Winston C. Doby Campus Architect Marc Fisher Vice President and General Counsel James Holst Executive Vice Chancellor Wyatt R. Hume Director Cynthia Ingham Bachman Associate Vice Chancellor Paula Lutomirski Vice Chancellor Joseph D. Mandel Associate Vice Chancellor Sam Morabito Assistant Vice Chancellor Michael O'Donnell Senior Planner Mary O'Keefe Assistant Vice Chancellor Sue Santon Director Mark Stocki University Counsel Alan Waltner Director Jack Zimmermann UCLA Academic Senate, Council on Planning and Budget President, Graduate Students Association President, Undergraduate Student's Association Council

### Local Associations and Individuals

Mr. Richard Agay, Westside Community Planning Council Ms. Sandy Brown, The Holmby-Westwood Property Owners Association, Inc. Ms. Elaine Gerdau, Bel-Air Association Ms. Laura Lake, Friends of Westwood Ms. Mary Leslie, Interim President, Los Angeles Business Council Travis Longcore, Ph.D., The Urban Wildlands Group Ms. Carole Magnuson Mr. Mike Metcalf, Save Westwood Village Alvin Milder, Esq., UCLA Watch Mrs. Harriet Miller, Westwood Hills Property Owners Association Mr. Robert Ringler, President, Residents of Beverly Glen, Inc. Ms. Shelley Taylor, North Village Association Mr. Philip Thomas, CEO, V.A. of Greater Los Angeles Healthcare System Mr. Stephen Twining, President Roscomare Valley & Hillside Homeowners Association Executive Director Bob Walsh, Westwood Community Alliance

### UCLA Long Range Development Plan Update Notice of Preparation Attachment #1 Potential Environmental Issues

### Aesthetics

Potential effects on scenic resources and campus view corridors Potential alteration in visual characteristics Potential changes in sources of light or glare

### **Agricultural Resources**

Not applicable on the UCLA campus and vicinity

### Air quality

Consistency with adopted air quality plans Long-term operational emissions from mobile and stationary sources Short-term construction emissions Potential air quality effects to sensitive receptors on and off campus

### **Biological resources**

Removal and replacement of specimen trees and landscaping Potential effects on potential migratory bird habitat

### **Cultural Resources**

Potential effects to the historic and architectural qualities of potentially historic campus buildings Potential effects on archaeologic or paleolithic resources during excavation

### **Geology and Soils**

Seismic considerations in the siting and design of future development Suitability of soils for future development Extent of grading and export of earth materials

### **Hazards and Hazardous Materials**

Use, transport and disposal of hazardous materials from research and patient care activities Potential toxic emissions or wastes from operational and construction activities Potential risks to people or structures

### Hydrology and Water Quality

Potential change in amount and quality of storm water runoff and effect on drainage systems Potential alteration of drainage patterns Consistency with adopted water quality standards or waste discharge requirements

### Land Use and Planning

Compatibility with adjacent land uses on and off campus Intensification of land use in the campus housing and core zone

Consistency with adopted LRDP planning principles

### **Mineral Resources**

Not applicable on the UCLA campus

### Noise

Potential for long term increases in ambient noise Short-term construction related noise and vibration

### **Population and Housing**

Impact on campus population, including students, faculty, staff and visitors Potential impact on housing demand, on and off campus

### **Public Services**

Potential impact of increased population on police and fire protection services Potential impact of increased population on demand for schools, parks and other public services

### Recreation

Potential impact of increased demand for on and off campus recreational facilities

### **Transportation and Traffic**

Short-term construction effects on access, parking and circulation Long-term operational effects on access, parking and circulation Impacts from vehicle trips on local intersections and the regional highway network Consistency with adopted congestion management plans Potential effects on the demand for parking Potential effects on the provision of transportation demand management alternatives

### **Utilities and Service Systems**

Potential effects on utility conveyance systems including: water, wastewater and natural gas Adequacy of electrical, steam and chilled water capacity of the Campus Energy Systems Facility Consistency with adopted regulations related to solid waste generation 

Gray Davis GOVERNOR Governor's Office of Planning and Research State Clearinghouse



Steve Nissen DIRECTOR

**Notice of Preparation** 

June 13, 2001

To: Reviewing Agencies

Re: UCLA Long Range Development Plan Update SCH# 1989072618

Attached for your review and comment is the Notice of Preparation (NOP) for the UCLA Long Range Development Plan Update draft Environmental Impact Report (EIR).

Responsible agencies must transmit their comments on the scope and content of the NOP, focusing on specific information related to their own statutory responsibility, within 30 days of receipt of the NOP from the Lead Agency. This is a courtesy notice provided by the State Clearinghouse with a reminder for you to comment in a timely manner. We encourage other agencies to also respond to this notice and express their concerns early in the environmental review process.

Please direct your comments to:

Tova Lelah Regents of the University of California 1060 Veteran Avenue, CPB 3rd Floor Los Angeles, CA 90095

with a copy to the State Clearinghouse in the Office of Planning and Research. Please refer to the SCH number noted above in all correspondence concerning this project.

If you have any questions about the environmental document review process, please call the State Clearinghouse at (916) 445-0613.

Sincerely,

Scott Morgan Project Analyst, State Clearinghouse

Attachments cc: Lead Agency

> 1400 TENTH STREET P.O. BOX 3044 SACRAMENTO, CALIFORNIA 95812-3044 916-445-0613 FAX 916-323-3018 WWW.OPR.CA.GOV/CLEARINGHOUSE.HTML

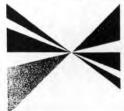
### Document Details Report State Clearinghouse Data Base

SCH# 1989072618						
Project Title Lead Agency	cy University of California, Regents of the					
Туре	NOP Notice of Preparation	1				
Description	The University of California, Los Angeles proposes to update the campus' Long Range Development Plan, previously adopted by the Regents of the University of California in November 1990. The Long Range Development Plan Update ("LRDP Update" or "Plan Update") will be undertaken to address anticipated growth in student enrollment.					
Lead Agenc	y Contact	······································				
Name	Tova Lelah					
Agency	Regents of the University of California					
Phone	310/206-5482	Fax				
email						
Address	1060 Veteran Avenue, CPB 3rd Floor		and taking			
City	Los Angeles	State CA	<b>Zip</b> 90095			
Project Loc	ation					
County	Los Angeles					
City	Los Angeles, City of					
Region						
Cross Streets	Westwood Boulevard/LeConte Avenue	e				
Parcel No.						
Township	Range	Section	Base			
Proximity to	):					
Highways	1-405					
Airports						
Railways						
Waterways						
Schools						
Land Use	Campus					
Project Issues	Aesthetic/Visual; Air Quality; Archaeologic-Historic; Drainage/Absorption; Geologic/Seismic; Noise; Population/Housing Balance; Fublic Services; Recreation/Parks; Sewer Capacity; Soil Erosion/Compaction/Grading; Solid Waste; Toxic/Hazardous; Traffic/Circulation; Vegetation; Water Quality; Water Supply; Growth Inducing; Landuse; Cumulative Effects					
Reviewing	g Resources Agency; Department of Conservation; Office of Historic Preservation; Department of Parks					
Agencies						
	American Heritage Commission; Publ	lic Utilities Commission; Sta	te Lands Commission; Caltrans,			
	District 7; Department of Housing and	•				
	Division of Transportation Planning; D					
	Control Board, Region 4		Sector and the sector of the s			
Date Received	06/13/2001 Start of Review 0	CIA2/2001 End of B	eview 07/12/2001			

Date Received 06/13/2001 Start of Review 06/13/2001 End of Review 07/12/2001

### 1989072618 County: LOS Angeles SCH# **NOP Distribution List** Colorado River Board Dept. of Transportation. State Water Resources Control Fish and Game **Resources Agency** Chris Savre Board Gerald R. Zimmerman District 10 Greg Frantz Division of Water Quality """ **Resources Agency** Dept. of Fish & Game Dept. of Transportation **Tahoe Regional Planning** Nadell Gayou Scott Flint Agency (TRPA) Lou Salazar State Water Resouces Control Environmental Services Division District 11 Lyn Barnett Board Dept. of Boating & Waterways Mike Falkenstein Bill Curry Dept. of Fish & Game Dept. of Transportation **Division of Water Rights** Donald Koch Office of Emergency Services Alleen Kennedy California Coastal Region 1 John Rowden, Manager District 12 Dept. of Toxic Substances Cont Commission **CEQA** Tracking Center Elizabeth A. Fuchs Dept. of Fish & Game **Business, Trans & Housing Banky Curtis Delta Protection Commission Regional Water Quality Control** Dept. of Conservation Region 2 Debby Eddy Ken Trott Board (RWQCB) 12 **Housing & Community Development** Dept. of Fish & Game Dept. of Forestry & Fire Cathy Creswell Robert Floerke Santa Monica Mountains Housing Policy Division Protection RWOCB Region 3 Conservancy Allen Robertson Cathleen Hudson Paul Edelman **Caltrans - Division of Aeronautics** Dept. of Fish & Game North Coast Region (1) Office of Historic Sandy Hesnard William Laudermilk Dept. of Transportation Preservation The. RWQCB Region 4 California Highway Patrol Hans Kreutzberg Environmental Document Lt. Dennis Brunette Dept. of Fish & Game Coordinator Dept of Parks & Recreation Dept. of Transportation Office of Special Projects Sandy Peterson San Francisco Bay Region (2) **Resource Mgmt. Division** IGR/Planning Region 5, Habitat Conservation Dept. of Transportation District 1 RWQCB Program Ron Helgeson Central Coast Region (3) **Reclamation Board** Dept. of Transportation Caltrans - Planning Dept. of Fish & Game Pam Bruner 1 Vicki Roe Gabrina Gatchel RWOCH Dept. of General Services Local, Development Review, Region 6. Habitat Conservation Jonathan Bishop S.F. Bay Conservation & Robert Sleppy District 2 Program Los Angeles Region (4) Dev't, Comm. Environmental Services Section Steve McAdam Dept. of Transportation 1 Dept. of Fish & Game RWQCB Jeff Pulverman Air Resources Board Central Valley Region (5) Tammy Allen **Resources Agency** District 3 Region 6, Inyo/Mono, Habitat 1 Airport Projects Nadell Gavou RWOCB Conservation Program Dept. of Water Resources Jim Lemer Dept. of Transportation Central Valley Region (5) Jean Finney Dept. of Fish & Game Fresno Branch Office **Transportation Projects** Health & Welfare District 4 Tom Napoll Ann Gerachty RWOCB Marine Region Dept. of Transportation Central Valley Region (5) Industrial Projects 鼦 Health & Welfare Lawrence Newland Redding Branch Office Mike Tollstrup Independent Commissions District 5 Wayne Hubbard RWQCB Dept. of Health/Drinking Water Dept. of Transportation Lahontan Region (6) **California Integrated Waste** California Energy Commission Marc Birnbaum Management Board Food & Agriculture Environmental Office RWQCB District 6 Sue O'Leary Lahontan Region (6) 196 Native American Heritage Dept. of Transportation Victorville Branch Office State Water Resources Control Food & Agriculture Comm. Stephen J. Buswell Board RWQCB Debble Treadway Tad Bell District 7 **Diane Edwards** Dept. of Food and Agriculture Colorado River Basin Region (7) 1 **Public Utilities Commission Division of Clean Water Programs** Dept. of Transportation Andrew Barnsdale RWOCB Mike Sim Santa Ana Region (8) District 8 **地震** State Lands Commission Betty Silva RWQCB Dept. of Transportation San Diego Region (9) Caroline Yee for Kate Walton Governor's Office of Planning District 9 & Research State Clearinghouse Planner

SOUTHERN CALIFORNIA



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Wennura County: Judy Mikels, Ventura County • Glen Becerra, Simi Valley • Donna De Paola, San Buenaventura • Toni Young, Port Hueneme

Riverside County Transportation Commission: Robin Lowe, Hemet

Ventura County Transportation Commission: Bill Davis, Simi Valley June 25, 2001

Ms. Tova Lelah Assistant Director Environmental Planning UCLA Capital Programs 1060 Veteran Avenue Los Angeles, CA 90095-1365

RE: Comments on the Notice of Preparation for a Draft Subsequent Environmental Impact Report for the UCLA Long Range Development Plan Update - SCAG No. I 20010325

Dear Ms. Lelah:

Thank you for submitting the Notice of Preparation for a Draft Subsequent Environmental Impact Report for the UCLA Long Range Development Plan Update to SCAG for review and comment. As areawide clearinghouse for regionally significant projects, SCAG reviews the consistency of local plans, projects, and programs with regional plans. This activity is based on SCAG's responsibilities as a regional planning organization pursuant to state and federal laws and regulations. Guidance provided by these reviews is intended to assist local agencies and project sponsors to take actions that contribute to the attainment of regional goals and policies.

In addition, The California Environmental Quality Act requires that EIRs discuss any inconsistencies between the proposed project and the applicable general plans and **regional plans (Section 15125 [d]).** If there are inconsistencies, an explanation and rationalization for such inconsistencies should be provided.

Policies of SCAG's Regional Comprehensive Plan and Guide that may be applicable to your project are outlined in the attachment. We expect the DSEIR to specifically cite the appropriate SCAG policies and address the manner in which the Project is consistent with applicable core policies or supportive of applicable ancillary policies. Please use our policy numbers to refer to them in your DSEIR. Also, we would encourage you to use a side-by-side comparison of SCAG policies with a discussion of the consistent or support of the policy with the Proposed Project.

Please provide a minimum of 45 days for SCAG to review the DSEIR when this document is available. If you have any questions regarding the attached comments, please contact me at (213) 236-1867.

Sincerely.

JEFFREY V. SMITH, AICP Senior Planner Intergovernmental Review

1

### COMMENTS ON THE PROPOSAL TO DEVELOP A DRAFT SUBSEQUENT ENVIRONMENTAL IMPACT REPORT FOR THE UCLA LONG RANGE DEVELOPMENT PLAN UPDATE SCAG NO. I 20010325

### PROJECT DESCRIPTION

The proposed Project considers the update of the University of California, Los Angeles's Long Range Development Plan. The plan is being updated to address anticipated growth in student enrollment. The Long Range Development Plan will consider the potential environmental effects of the development of the remaining approximately 1.9 million square feet of space under the 1990 LRDP, for academic, research, housing and other uses on campus.

### CONSISTENCY WITH REGIONAL COMPREHENSIVE PLAN AND GUIDE POLICIES

The **Growth Management Chapter (GMC)** of the Regional Comprehensive Plan and Guide (RCPG) contains the following policies that are particularly applicable and should be addressed in the Draft SEIR for the Long Range Development Plan Update (LRDP).

3.01 The population, housing, and jobs forecasts, which are adopted by SCAG's Regional Council and that reflect local plans and policies, shall be used by SCAG in all phases of implementation and review

### **Regional Growth Forecasts**

The Draft EIR should reflect the most current SCAG forecasts which are the 2001 RTP (April 2001) Population, Households and Employment forecasts for the City of Los Angeles Subregion. This forecast is as follows:

City of Los Angeles Subregion Forecasts	2000	2005	2010	2015	2020
Population	3,823,062	4,030,730	4,210,853	4,387,980	4,628,339
Households	1,276,318	1,323,238	1,417,670	1,513,052	1,632,598
Employment	1,782,153	1,855,350	1,931,000	1,975,730	2,016,625

3.03 The timing, financing, and location of public facilities, utility systems, and

transportation systems shall be used by SCAG to implement the region's growth policies.

The **Regional Transportation Plan (RTP)** also has goals, objectives, policies and actions pertinent to this proposed project. This RTP links the goal of sustaining mobility with the goals of fostering economic development, enhancing the environment, reducing energy consumption, promoting transportation-friendly development patterns, and encouraging fair and equitable access to residents affected by socio-economic, geographic and commercial limitations. Among the relevant goals, objectives, policies and actions of the RTP are the following:

### Core Regional Transportation Plan Policies

4.01 Transportation investments shall be based on SCAG's adopted Regional Performance Indicators:

<u>Mobility</u> - Transportation Systems should meet the public need for improved access, and for safe, comfortable, convenient, faster and economical movements of people and goods.

- Average Work Trip Travel Time in Minutes 25 minutes (Auto)
- PM Peak Freeway Travel Speed 45 minutes (Transit)
- PM Peak Non-Freeway Travel Speed
- Percent of PM Peak Travel in Delay (Fwy)
- Percent of PM Peak Travel in Delay (Non-Fwy)

<u>Accessibility</u> - Transportation system should ensure the ease with which opportunities are reached. Transportation and land use measures should be employed to ensure minimal time and cost.

- Work Opportunities within 45 Minutes door to door travel time (Mode Neutral)
- Average transit access time

<u>Environment</u> - Transportation system should sustain development and preservation of the existing system and the environment. (All Trips)

 CO, ROG, NOx, PM10, PM2.5 – Meet the applicable SIP Emission Budget and the Transportation Conformity requirements

<u>Reliability</u> – Transportation system should have reasonable and dependable levels of service by mode. (All Trips)

- Transit 63%
- Highway 76%

<u>Safety</u> - Transportation systems should provide minimal accident, death and injury. (All Trips)

- Fatalities Per Million Passenger Miles 0
- Injury Accidents 0

<u>Equity/Environmental Justice</u> - The benefits of transportation investments should be equitably distributed among all ethnic, age and income groups. (All trips)

 By Income Groups Share of Net Benefits – Equitable Distribution of Benefits among all Income Quintiles

<u>Cost-Effectiveness</u> - Maximize return on transportation investment (All Trips). Air Quality, Mobility, Accessibility and Safety

- Return on Total Investment Optimize return on Transportation Investments
- 4.02 Transportation investments shall mitigate environmental impacts to an acceptable level.
- 4.04 Transportation Control Measures shall be a priority.
- 4.16 Maintaining and operating the existing transportation system will be a priority over expanding capacity.

# GMC POLICIES RELATED TO THE RCPG GOAL TO IMPROVE THE REGIONAL STANDARD OF LIVING

The Growth Management goals to develop urban forms that enable individuals to spend less income on housing cost, that minimize public and private development costs, and that enable firms to be more competitive, strengthen the regional strategic goal to stimulate the regional economy. The evaluation of the proposed project in relation to the following policies would be intended to guide efforts toward achievement of such goals and does not infer regional interference with local land use powers.

- 3.05 Encourage patterns of urban development and land use, which reduce costs on infrastructure construction and make better use of existing facilities.
- 3.09 Support local jurisdictions' efforts to minimize the cost of infrastructure and public service delivery, and efforts to seek new sources of funding for development and the provision of services.
- 3.10 Support local jurisdictions' actions to minimize red tape and expedite the permitting process to maintain economic vitality and competitiveness.

### GMC POLICIES RELATED TO THE RCPG GOAL TO IMPROVE THE REGIONAL QUALITY OF LIFE

The Growth Management goals to attain mobility and clean air goals and to develop urban forms that enhance quality of life, that accommodate a diversity of life styles, that preserve open space and natural resources, and that are aesthetically pleasing and preserve the character of communities, enhance the regional strategic goal of maintaining the regional quality of life. The evaluation of the proposed project in relation to the following policies would be intended to provide direction for plan implementation, and does not allude to regional mandates.

- 3.12 Encourage existing or proposed local jurisdictions' programs aimed at designing land uses which encourage the use of transit and thus reduce the need for roadway expansion, reduce the number of auto trips and vehicle miles traveled, and create opportunities for residents to walk and bike.
- 3.14 Support local plans to increase density of future development located at strategic points along the regional commuter rail, transit systems, and activity centers.
- 3.18 Encourage planned development in locations least likely to cause environmental impact.
- 3.20 Support the protection of vital resources such as wetlands, groundwater recharge areas, woodlands, production lands, and land containing unique and endangered plants and animals.
- 3.21 Encourage the implementation of measures aimed at the preservation and protection of recorded and unrecorded cultural resources and archaeological sites.
- 3.22 Discourage development, or encourage the use of special design requirements, in areas with steep slopes, high fire, flood, and seismic hazards.
- 3.23 Encourage mitigation measures that reduce noise in certain locations, measures aimed at preservation of biological and ecological resource, measures that would reduce exposure to seismic hazards, minimize earthquake damage, and to develop emergency response and recovery plans.

### GMC POLICIES RELATED TO THE RCPG GOAL TO PROVIDE SOCIAL, POLITICAL, AND CULTURAL EQUITY

The Growth Management Goal to develop urban forms that avoid economic and social polarization promotes the regional strategic goal of minimizing social and geographic disparities and of reaching equity among all segments of society. The evaluation of the proposed project in relation to the policy stated below is intended guide direction for the accomplishment of this goal, and does not infer regional mandates and interference with local land use powers.

3.27 Support local jurisdictions and other service providers in their efforts to develop sustainable communities and provide, equally to all members of society, accessible and effective services such as: public education, housing, health care, social services, recreational facilities, law enforcement, and fire protection.

### AIR QUALITY CHAPTER CORE ACTIONS

The Air Quality Chapter core actions related to the proposed project includes:

- 5.07 Determine specific programs and associated actions needed (e.g., indirect source rules, enhanced use of telecommunications, provision of community based shuttle services, provision of demand management based programs, or vehicle-miles-traveled/emission fees) so that options to command and control regulations can be assessed.
- 5.11 Through the environmental document review process, ensure that plans at all levels of government (regional, air basin, county, subregional and local) consider air quality, land use, transportation and economic relationships to ensure consistency and minimize conflicts.

### WATER QUALITY CHAPTER RECOMMENDATIONS AND POLICY OPTIONS

The Water Quality Chapter core recommendations and policy options relate to the two water quality goals: to restore and maintain the chemical, physical and biological integrity of the nation's water; and, to achieve and maintain water quality objectives that are necessary to protect all beneficial uses of all waters.

11.07 Encourage water reclamation throughout the region where it is cost-effective, feasible, and appropriate to reduce reliance on imported water and wastewater

discharges. Current administrative impediments to increased use of wastewater should be addressed.

### CONCLUSIONS

All feasible measures needed to mitigate any potentially negative regional impacts associated with the proposed project should be implemented and monitored, as required by CEQA.

### ENDNOTE

### SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS

### **Roles and Authorities**

SCAG is a *Joint Powers Agency* established under California Government Code Section 6502 et seq. Under federal and state law, SCAG is designated as a Council of Governments (COG), a Regional Transportation Planning Agency (RTPA), and a Metropolitan Planning Organization (MPO). SCAG's mandated roles and responsibilities include the following:

SCAG is designated by the federal government as the Region's *Metropolitan Planning Organization* and mandated to maintain a continuing, cooperative, and comprehensive transportation planning process resulting in a Regional Transportation Plan and a Regional Transportation Improvement Program pursuant to 23 U.S.C. '134(g)-(h), 49 U.S.C. '1607(f)-(g) et seq., 23 C.F.R. '450, and 49 C.F.R. '613. SCAG is also the designated *Regional Transportation Planning Agency*, and as such is responsible for both preparation of the Regional Transportation Plan (RTP) and Regional Transportation Improvement Program (RTIP) under California Government Code Section 65080.

SCAG is responsible for developing the demographic projections and the integrated land use, housing, employment, and transportation programs, measures, and strategies portions of the South Coast Air Quality Management Plan, pursuant to California Health and Safety Code Section 40460(b)-(c). SCAG is also designated under 42 U.S.C. '7504(a) as a Co-Lead Agency for air quality planning for the Central Coast and Southeast Desert Air Basin District.

SCAG is responsible under the Federal Clean Air Act for determining *Conformity* of Projects, Plans and Programs to the Air Plan, pursuant to 42 U.S.C. '7506.

Pursuant to California Government Code Section 65089.2, SCAG is responsible for *reviewing all Congestion Management Plans (CMPs) for consistency with regional transportation plans* required by Section 65080 of the Government Code. SCAG must also evaluate the consistency and compatibility of such programs within the region.

SCAG is the authorized regional agency for *Inter-Governmental Review* of Programs proposed for federal financial assistance and direct development activities, pursuant to Presidential Executive Order 12,372 (replacing A-95 Review).

SCAG reviews, pursuant to Public Resources Code Sections 21083 and 21087, *Environmental Impact Reports* of projects of regional significance for consistency with regional plans [California Environmental Quality Act Guidelines Sections 15206 and 15125(b)].

Pursuant to 33 U.S.C. '1288(a)(2) (Section 208 of the Federal Water Pollution Control Act), SCAG is the authorized Areawide Waste Treatment Management Planning Agency.

SCAG is responsible for preparation of the *Regional Housing Needs Assessment*, pursuant to California Government Code Section 65584(a).

SCAG is responsible (with the San Diego Association of Governments and the Santa Barbara County/Cities Area Planning Council) for preparing the Southern California Hazardous Waste Management Plan pursuant to California Health and Safety Code Section 25135.3.

### STATE OF CALIFORNIA

Gray Davis, Governor

NATIVE AMERICAN HERITAGE COMMISSION 915 CAPITOL MALL, ROOM 364 SACRAMENTO, CA 95814 (916) 653-4082 (916) 657-5390 - Fax



July 5, 2001

 Tova Lelah
 Control

 Regents of the University of California
 Control

 1060 Veteran Avenue, CPB 3<sup>rd</sup> Floor
 Control

 Los Angeles, CA 9005
 Control

 RE:
 SCH# 1989072618 – UCLA Long Range Development Plan Update

Dear Ms. Lelah:

The Native American Heritage Commission has reviewed the above mentioned NOP. To adequately assess the project-related impact on archaeological resources, the Commission recommends the following actions be required:

- ✓ Contact the appropriate Information Center for a records search. The record search will determine:
  - Whether a part or all of the project area has been previously surveyed for cultural resources.
  - Whether any known cultural resources have already been recorded on or adjacent to the project area.
  - Whether the probability is low, moderate, or high that cultural resources are located within the project area.
  - Whether a survey is required to determine whether previously unrecorded cultural resources are present.

If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.

- The report containing site significance and mitigation measurers should be submitted immediately to the planning department.
- The site forms and final written report should be submitted within 3 months after work has been completed to the Information Center.
- ✓ Contact the Native American Heritage Commission for:
  - A Sacred Lands File Check.
  - A list of appropriate Native American Contacts for consultation concerning the project site and assist in the mitigation measures.
- Provisions for accidental discovery of archeological resources:
  - Lack of surface evidence of archeological resources does not preclude the existence of archeological resources. Lead agencies should include provisions for accidentally discovered archeological resources during construction per California Environmental Quality Act (CEQA) §15064.5 (f).
- Provisions for discovery of Native American human remains
  - Health and Safety Code §7050.5, CEQA §15064.5 (e), and Public Resources Code §5097.98
    mandates the process to be followed in the event of an accidental discovery of any human remains in a
    location other than a dedicated cemetery and should be included in all environmental documents.

If you have any questions, please contact me at (916) 653-4040.

Sincerely,

Rob Wood Associate Governmental Program Analyst

**CC: State Clearinghouse** 

GRAY DAVIS, Governor



STATE OF CALIFORNIA-THE RESOURCES AGENCY DEPARTMENT OF FISH AND GAME South Coast Region 4949 Viewridge Avenue San Diego, California 92123 (858) 467-4201 FAX (858) 467-4239

July 9, 2001

Ms. Tova Lelah Regents of the University of California 1060 Veteran Avenue, CPB 3<sup>rd</sup> Floor Los Angeles, CA 90095

Dear Ms. Lelah:

### Notice of Preparation of an Environmental Impact Report for UCLA Long Range Development Plan Update SCH# 1989072618, Los Angeles County

The Department of Fish and Game (Department) appreciates this opportunity to comment on the above-referenced project, relative to impacts to biological resources. The proposed project consists of updating the campus' Long Range Development Plan to address anticipated growth in student enrollment. The UCLA campus is located in the City of Los Angeles at Westwood Boulevard and LeConte Avenue.

To enable Department staff to adequately review and comment on the proposed environmental document, we recommend the following information, where applicable, be evaluated and included in the document:

- A complete, recent assessment of flora and fauna within and adjacent to the project area, with particular emphasis upon identifying endangered, threatened, and locally unique species.
  - a. A thorough recent assessment of rare plants and rare natural communities, following the Department's May 1984 Guidelines for Assessing Impacts to Rare Plants and Rare Natural Communities (Attachment 1).
  - b. A complete recent assessment of sensitive fish, wildlife, reptile, and amphibian species. Seasonal variations in use of the project area should also be addressed. Recent, focused, species-specific surveys, conducted at the appropriate time of year and time of day when the sensitive species are active or otherwise identifiable, are required. Acceptable species-specific survey procedures should be developed in consultation with the Department and U.S. Fish and Wildlife Service.

Ms. Tova Lelah July 9, 2001 Page Two

- c. Rare, threatened, and endangered species to be addressed should include all those which meet the California Environmental Quality Act (CEQA) definition (see CEQA Guidelines, § 15380). The EIR should address avoidance and mitigation measures to reduce significant direct and indirect adverse project impacts to sensitive species.
- d. The Department's California Natural Diversity Data Base in Sacramento should be contacted at (916) 324-3812 to obtain current information on any previously reported sensitive species and habitats, including Significant Natural Areas identified under Chapter 12 of the Fish and Game Code. Also, any Significant Ecological Areas (SEAs) or environmentally Sensitive Habitat Area (ESHAs) that have been identified by the County of Los Angeles or any areas that are considered sensitive by the local jurisdiction that are located in or adjacent to the project area must be addressed.
- A thorough discussion of direct, indirect, and cumulative impacts expected to adversely affect biological resources, with specific measures to offset such impacts.
  - a. CEQA Guidelines, § 15125(a), direct that knowledge of the regional setting is critical to an assessment of environmental impacts and that special emphasis should be placed on resources that are rare or unique to the region.
  - Project impacts should also be analyzed relative to their effects on off-site habitats and populations. Specifically, this should include nearby public lands, open space, adjacent natural habitats, and riparian ecosystems.
  - c. A cumulative effects analysis should be developed as described under CEQA Guidelines, § 15130. General and specific plans, as well as past, present, and anticipated future projects, should be analyzed relative to their impacts on similar plant communities and wildlife habitats.
  - d. Migratory nongame native bird species are protected by international treaty under the Federal Migratory Bird Treaty Act (MBTA) of 1918 (50 C.F.R. Section 10.13). Sections 3503, 3503.5 and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests including raptors and other migratory nongame birds (as listed under the Federal MBTA). Take means to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture of kill (Fish and Game Code Section 86).
    - Proposed project activities (including disturbances to native and nonnative vegetation) should take place outside of the breeding bird season which generally runs from March 1- September 1 (as early as February 1 for raptors) to avoid take (including disturbances which

Ms. Tova Lelah July 9, 2001 Page Three

2.

would cause abandonment of active nests containing eggs and/or young).

If project activities cannot feasiblely avoid the breeding bird season, the Department recommends that beginning thirty days prior to the disturbance of suitable nesting habitat the project proponent should arrange for weekly bird surveys to detect any protected native birds in the habitat to be disturbed and any other such habitat within 300 feet of the construction work area (within 500 feet for raptors). The surveys should be conducted by a qualified biologist with experience in conducting breeding bird surveys. The surveys should continue on a weekly basis with the last survey being conducted no more than 3 days prior to the initiation of clearance/construction work. If a protected native bird is found, the project proponent should delay all clearance/construction disturbance activities in suitable nesting habitat or within 300 feet of nesting habitat (within 500 feet for raptor nesting habitat) until September 1 or continue the surveys in order to locate any nests. If an active nest is located, clearing and construction within 300 feet of the nest (within 500 feet for raptor nests) shall be postponed until the nest is vacated and juveniles have fledged and when there is no evidence of a second attempt at nesting. Limits of construction to avoid a nest should be established in the field with flagging and stakes or construction fencing. Construction personnel should be instructed on the sensitivity of the area. The project proponent should record the results of the recommended protective measures described above to document compliance with applicable State and Federal laws pertaining to the protection of native birds. Department recommends a minimum 500 foot buffer for all active raptor nests.)

3. A range of alternatives should be analyzed to ensure that alternatives to the proposed project are fully considered and evaluated. A range of alternatives which avoid or otherwise minimize impacts to sensitive biological resources. Specific alternative locations should also be evaluated in areas with lower resource sensitivity where appropriate.

a. Mitigation measures for project impacts to sensitive plants, animals, and habitats should emphasize evaluation and selection of alternatives which avoid or otherwise minimize project impacts. Compensation for unavoidable impacts through acquisition and protection of high quality habitat elsewhere should be addressed.

b. The Department considers Rare Natural Communities as threatened habitats

Ms. Tova Lelah July 9, 2001 Page Four

> having both regional and local significance. Thus, these communities should be fully avoided and otherwise protected from project-related impacts (Attachment 2).

- c. The Department generally does not support the use of relocation, salvage, and/or transplantation as mitigation for impacts to rare, threatened, or endangered species. Department studies have shown that these efforts are experimental in nature and largely unsuccessful. Please contact Ms. Mary Meyer, Plant Ecologist at (805) 640-8019 to discuss project related impacts to sensitive plant species and communities.
- d. The Department requires all mitigation areas to be excluded from County or City required Fuel Modification Zones (FMZ). Acreage intended to satisfy either habitat buffer or mitigation requirements will not be considered to have value if included in a FMZ or planted with species consistent with FMZ requirements, rather than habitat restoration requirements.
- 4. A California Endangered Species Act (CESA) Permit must be obtained, if the project has the potential to result in "take" of species of plants or animals listed under CESA, either during construction or over the life of the project. CESA Permits are issued to conserve, protect, enhance, and restore State-listed threatened or endangered species and their habitats. Early consultation is encouraged, as significant modification to the proposed project and mitigation measures may be required in order to obtain a CESA Permit. Revisions to the Fish and Game Code, effective January 1998, require that the Department issue a separate CEQA document for the issuance of a CESA permit unless the project CEQA document addresses all project impacts to listed species and specifies a mitigation monitoring and reporting program that will meet the requirements of a CESA

permit. For these reasons, the following information is requested:

- a. Biological mitigation monitoring and reporting proposals should be of sufficient detail and resolution to satisfy the requirements for a CESA Permit.
- b. A Department-approved Mitigation Agreement and Mitigation Plan are required for plants listed as rare under the Native Plant Protection Act.
- 5. The Department opposes the elimination of watercourses and/or their channelization or conversion to subsurface drains. All wetlands and watercourses, whether intermittent or perennial, must be retained and provided with substantial setbacks which preserve the riparian and aquatic habitat values and maintain their value to on-site and off-site wildlife populations.
  - a. The Department requires a streambed agreement, pursuant to Section 1600 et

Ms. Tova Lelah July 9, 2001 Page Five

> seq. of the Fish and Game Code, with the applicant prior to any direct or indirect impact (including preliminary geotechnical activities) of a lake or stream bed, bank or channel or associated riparian resources. The Department's issuance of a stream bed alteration agreement is considered a project that is subject to CEQA. To facilitate our issuance of the agreement, the Department as a responsible agency under CEQA may consider the local jurisdiction's (lead agency) document for the project. To minimize additional requirements by the Department under CEQA the document should fully identify the potential impacts to any lake, stream or riparian resources and provide adequate avoidance, mitigation, monitoring and reporting commitments for issuance of the agreement. Early consultation is recommended, since modification of the proposed project may be required to avoid or reduce impacts to fish and wildlife resources. Please contact Ms. Betty Courtney, Environmental Specialists III, at (661) 263-8306 to discuss this further.

Thank you for this opportunity to provide comment. Questions regarding this letter and further coordination on these issues should be directed to Mr. Scott Harris, Associate Wildlife Biologist at (818) 360-8140.

Sincerely, themis for

Ms. Morgan Wehtje Environmental Scientist IV

Attachments

cc: Mr. Scott Harris Department of Fish and Game

> State Clearinghouse Sacramento, California

### **ATTACHMENT 1**

### State of California THE RESOURCES AGENCY Department of Fish and Game May 4, 1984

### GUIDELINES FOR ASSESSING THE EFFECTS OF PROPOSED DEVELOPMENTS ON RARE AND ENDANGERED PLANTS AND PLANT COMMUNITIES

The following recommendations are intended to help those who prepare and review environmental documents determine <u>when</u> a botanical survey is needed, <u>who</u> should be considered qualified to conduct such surveys, <u>how</u> field surveys should be conducted and <u>what</u> information should be contained in the survey report.

1. Botanical surveys that are conducted to determine the environmental effects of a proposed development should be directed to all rare and endangered plants and plant communities. Rare and endangered plants are not necessarily limited to those species which have been "listed" by state and federal agencies but should include any species that, based on all available data, can be shown to be rare and/or endangered under the following definitions.

A species, subspecies or variety of plant is "endangered" when the prospects of its survival and reproduction are in immediate jeopardy form one or more causes, including loss of habitat, change in habitat, over-exploitation, predation, competition or disease. A plant is "rare" when, although not presently threatened with extinction, the species, subspecies or variety is found in such small numbers throughout its range that it may be endangered if its environment worsens.

Rare plant communities are those communities that are of highly limited distribution. These communities may or may not contain rare or endangered species. The most current version of the California Natural Diversity Data Base's Outline of Terrestrial Communities in California may be used as a guide to the names of communities.

- It is appropriate to conduct a botanical field survey to determine if, or the extent that, rare plants will be affected by a proposed project when:
  - a. Based on an initial biological assessment, it appears that the project may damage potential rare plant habitat;
  - Rare plants have historically been identified on the project site, but adequate information of impact assessment is lacking; or
  - No initial biological assessment has been conducted and it is unknown whether or not rare plants or their habitat exist on the site.
- Botanical consultants should be selected on the basis of possession of the following qualifications (in order of importance):
  - a. Experience as a botanical field investigator with experience in field sampling design and field methods;
  - b. Taxonomic experience and a knowledge of plant ecology;
  - c. Familiarity with the plants of the area, including rare species; and
  - d. Familiarity with the appropriate state and federal statutes related to rare plants and plant collecting.
- Field surveys should be conducted in a manner that will locate any rare or endangered species that may be present. Specifically, rare or endangered plant surveys should be:
  - Conducted at the proper time of year when rare or endangered species are both "evident" and identifiable.
     Field surveys should be scheduled (1) to coincide with known flowering periods, and/or (2) during periods of

phenological development that are necessary to identify the plant species of concern.

- b. Floristic in nature. "Predictive surveys" (which predict the occurrence of rare species based on the occurrence of habitat or other physical features rather than actual field inspection) should be reserved for ecological studies, not for impact assessment. Every species noted in the field should be identified to the extent necessary to determine whether it is rare or endangered.
- c. Conducted in a manner that is consistent with conservation ethics. Collection of rare or suspected rare species (voucher specimens) should be made only when such actions would not jeopardize the continued existence of the population and in accordance with applicable state and federal permit regulations. Voucher specimens should be deposited at recognized public herbana for future reference. Photography should be used to document plant identification and habitat whenever possible, but especially when the population cannot withstand collection of voucher specimens.
- Conducted using systematic field techniques in all habitats of the site to ensure a reasonably thorough coverage of potential impact areas.
- e. Well documented. When a rare or endangered plant (or rare plant community) is located, a California Native Species (or Community) Field Survey Form or equivalent written form should be completed and submitted to the Natural Diversity Data Base.
- 5. Reports of botanical field surveys should be included in or with environmental assessments, negative declarations, EIR's and EIS's, should contain the following information:
  - Project description, including a detailed map of the project location and study area.
  - b. A written description of biological setting referencing the community nomenclature used and a vegetation map.
  - c. Detailed description of survey methodology.
  - d. Dates of field surveys.
  - e. Results of survey (including detailed maps).
  - An assessment of potential impacts.
  - g. Discussion of the importance of rare plant populations with consideration of nearby populations and total species distribution.
  - Recommended mitigation measures to reduce or avoid impacts.
  - i. List of all species identified.
  - Copies of all California Native Species Field Survey Forms or Natural Community Field Survey Forms.
  - k. Name of field investigator(s).
  - References cited, persons contacted, herbaria visited, and disposition of voucher specimens.

### ATTACHMENT 2

### Sensitivity of Top Priority Rare Natural Communities in Southern California\*

Sensitivity rankings are determined by the Department of Fish and Game, alifornia Natural Diversity Data Base and based on either number of known ccurrences (locations) and/or amount of habitat remaining (acreage). The hree rankings used for these top priority rare natural communities are as ollows:

- 1.- Less than 6 known locations and/or on less than 2,000 acres of habitat remaining
- 2.- Occurs in 6-20 known locations and/or 2,000-10,000 acres of habitat remaining
- 3.- Occurs in 21-100 known locations and/or 10,000-50,000 acres of habitat remaining

The number to the right of the decimal point after the ranking refers to the degree of threat posed to that natural community regardless of the ranking for example:

S1.1 = very threatened
S2.2 = threatened
S3.3 = no current threats known

### Sensitivity Rankings (February 1992)

### Community Name

S1.1 Mojave Riparian Forest Sonoran Cottonwood Willow Riparian Mesquite Bosque Elephant Tree Woodland Crucifixion Thorn Woodland Allthorn Woodland Arizonan Woodland Southern California Walnut Forest Mainland Cherry Forest Southern Bishop Pine Forest Torrey Pine Forest Desert Mountain White Fir Forest

Rank

Southern Dune Scrub Southern Coastal Bluff Scrub Maritime Succulent Scrub Riversidean Alluvial Fan Sage Scrub Southern Maritime Chaparral Valley Needlegrass Grassland Great Basin Grassland Mojave Desert Grassland Pebble Plains Southern Sedge Bog Cismontane Alkali Marsh

### Sensitivity Rankings (Cont.)

### Community Name

S1.2 Southern Foredunes Mono Pumice Flat Southern Interior Basalt Fl. Vernal Pool

S2.1 Venturan Coastal Sage Scrub Diegan Coastal Sage Scrub Riversidean Upland Coastal Sage Scrub Riversidean Desert Sage Scrub Sagebrush Steppe Desert Sink Scrub Mafic Southern Mixed Chaparrel San Diego Mesa Hardpan Vernal P. San Diego Mesa Claypan Vernal P. Alkali Meadow Southern Coastal Salt Marsh Coastal Brackish Marsh Transmontane Alkali Marsh Coastal and Valley Freshwater Marsh S. Arroya Willow Riparian Forest Southern Willow Scrub

Modoc-G.Bas. Cottonwood Willow Rip. Modoc-Great Basin Riparian Scrub Mojave Desert Wash Scrub Engelmann Oak Woodland Open Engelmann Oak Woodland Closed Engelmann Oak Woodland Island Oak Woodland California Walnut Woodland Island Ironwood Forest Island Cherry Forest S. Interior Cypress Forest Bigcone Spruce-Canyon Oak Forest

S2.2 Active Coastal Dunes Active Desert Dunes Stab. and Part. Stab. Desert Dunes Stab. and Part. Stab. Desert Sandfield Mojave Mixed Steppe Transmontane Freshwater Marsh Coulter Pine Forest S. California Fellfield White Mountains Fellfield

S2.3 Bristlecone Pine Forest Limber Pine Forest

# CITY OF LOS ANGELES

CALIFORNIA

FRANCES T. BANERJEE GENERAL MANAGER



DEPARTMENT OF

221 N. FIGUEROA STREET, SUITE 500 LOS ANGELES, CA 90012 (213) 580 1177 FAX: (213) 580-1188

RICHARD J. RIORDAN.

July 9, 2001

Tova Lelah, Assistant Director UCLA Capital Programs 1060 Veteran Avenue Los Angeles, CA 90095-1365

### NOTICE OF PREPARATION FOR THE DRAFT SUBSEQUENT ENVIRONMENTAL IMPACT REPORT (SEIR) FOR THE UCLA LONG RANGE DEVELOPMENT PLAN UPDATE PROJECT

The Los Angeles Department of Transportation (DOT) has reviewed the Notice of Preparation for the Draft SEIR for the UCLA Long Range Development Plan Update Project. The Notice of Preparation states that a detailed analysis will be conducted to evaluate potential environmental effects for transportation, parking and access. The project's traffic consultant should contact DOT to set up a pre-scoping meeting to determine the necessary requirements and key assumptions including, but not limited to, trip generation rates, geographic distribution, trip assignment, study intersections, significant impact criteria, existing conditions, future roadway improvements and related development projects, for preparing the traffic analysis.

If you have any questions you may contact me at (213) 485-1062.

Sincerely,

Zerom 1

ESTHER TAM, Transportation Engineer DOT WLA/Coastal Development Review 7166 W. Manchester Avenue Los Angeles, CA 90045

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c: George Rhyner, Crain & Associates Allyn Rifkin, DOT Jay Kim, DOT AUG-14-2001 12:13

GRAY DAVIS, Governor

STATE OF CALIFORNIA-BUSINESS, TRANSPORTATION AND HOUSING AGENCY

DEPARTMENT OF TRANSPORTATION OFFICE OF REGIONAL PLANNING DISTRICT 7, IGR OFFICE 1-10C 120 SOUTH SPRING STREET LOS ANGELES, CA 90012 TEL: (213) 897-6696 FAX: (213) 897-6317



July 11, 2001

Ms. Tova Lelah Assistant Director Environmental Planning UCLA Capital Programs 1060 Veteran Avenue, CPB 3<sup>rd</sup> floor Los Angeles, CA 90095

RE: IGR/CEQA No. 010640/EA UCLA Long Range Development Plan Update Supplemental Draft EIR Vic. LA / 405 / 31.54 - 33.00 SCH No. 1989072618

Dear Ms. Lelah:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the proposed update of the UCLA's Long Range Development Plan (LRDP). The LRDP SEIR will consider the potential environmental effects of the development of the remaining approximately 1.9 million square-feet of space under the 1990 LRDP. In addition, the LRDP SEIR will serve as a program EIR for the consideration of subsequent actions consistent with the LRDP Update.

To assist us in our efforts to evaluate the impacts of this project on state transportation facilities, a traffic study in advance of the DEIR should be prepared to analyze the following information.

- 1. Assumptions and methods used to develop trip generation/distribution percentages and assignments.
- 2. An analysis of ADT, AM, and PM peak-hour volumes for both the existing and future (expected project build-out) conditions. This should include 1-405 and I-10, affected ramps, streets, crossroads, and controlling intersections (i.e. Wilshire Boulevard/Veteran Avenue). This analysis should include project traffic, cumulative traffic generated for all approved developments in the area, Interchange Utilization (I.C.U.) and Level of Service (LOS) of affected freeway ramp intersections on the State Highway.
- Discussion of mitigation measures appropriate to alleviate anticipated traffic impacts. These mitigation discussions should include, but not be limited to, the following:

### o financing

- o scheduling considerations
- o implementation responsibilities

o monitoring plan

CAPITER 1 37 PN 101

Page 1 of 2

 Any assessment fees for mitigation should be of such proportion as to cover mainline highway deficiencies that occur as a result of the additional traffic generated by the project.

It is acknowledged in previous environmental documents prepared by UCLA (Luck Research Center FEIR, etc.) that there are mitigation programs being considered to address cumulative traffic impacts in the area and that they have not yet being approved nor funded. We ask that UCLA participate in fair share contributions towards traffic improvements to off-campus sites identified by the 1990 Long-Range Development Plan. Implementation of regional plans to improve traffic mobility in the campus vicinity should also be within the jurisdiction of The Board of Regents.

We look forward to reviewing the traffic impact study. We expect to receive a copy from the State Clearinghouse when the DEIR is completed. However, to expedite the review process and clarify any misunderstandings, you may send a copy in advance to the undersigned.

If you have any questions regarding this response, you can reach me at (213) 897-4429 and refer to IGR/CEQA No. 010640/EA

Sincerely,

STEPHEN J. BUSWELL IGR/CEQA Program Manager Transportation Planning Office Caltrans, District 7

cc: Scott Morgan, State Clearinghouse

Page 2 of 2

# THE URBAN WILDLANDS GROUP, INC.

P.O. BOX 24020. LOS ANGELES, CALIFORNIA 90024-0020, TEL (310) 276-2306

July 11, 2001

Tova Lelah, Assistant Director Environmental Planning UCLA Capital Programs 1060 Veteran Avenue, Box 951365 Los Angeles, CA 90095-1365

Re: LRDP Update Draft Subsequent Environmental Impact Report

Dear Ms. Lelah:

The Urban Wildlands Group is dedicated to the conservation and enhancement of natural habitats on the urban-wildland interface, seeking to protect and restore biodiversity through restoration, research, and education.

In response to the Notice of Preparation for the DSEIR for the LRDP Update, we note that although loss of vegetation and the Migratory Bird Treaty Act are listed as issues to be covered in the document, the checkbox for "wildlife" is not checked on the "Notice of Completion — Form A." Please check "wildlife" on this form and ensure that the DSEIR adequately evaluates inpacts to resident and migratory birds and other wildlife.

Sincerely,

Ivan ?

Travis Longcore, Ph.D.

Appendix 2 March 20, 2002, Revised NOP/IS and Comment Letters

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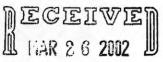
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BERKELEY . DAVIS

B Wederal Express...

CAMPUS CAPITAL PLANNING 1060 VETERAN AVENUE BOX 951365 LOS ANGELES, CA. 90095-1365

March 20, 2002

State of California Office of Planning and Research 1400 Tenth Street, Room 222 Sacramento, CA-95814

# **REVISED NOTICE OF PREPARATION**

# DRAFT ENVIRONMENTAL IMPACT REPORT

Project Title: 2002 Long Range Development Plan and Northwest Housing Infill Project

**Project Number:** 948365 and 948380

Lead Agency: University of California

Project Location: University of California, Los Angeles campus

County: Los Angeles

**Project Description:** On June 12, 2001, the University of California, Los Angeles (UCLA) filed a Notice of Preparation for a proposed update of the campus Long Range Development Plan (LRDP) previously adopted by The Regents of the University of California in November 1990. The LRDP update ("2002 LRDP") is being undertaken to address anticipated growth in student enrollment by 2010 as described herein. Planning efforts underway to update the LRDP have converged with planning to address the housing needs of existing and anticipated student enrollment. In this regard, UCLA proposes to construct additional on-campus student housing in the Northwest Housing Infill Project. This Revised Notice of Preparation is being filed to acknowledge that the potential environmental effects of both the 2002 LRDP and the proposed Northwest Housing Infill Project will be considered in a single Environmental Impact Report

(EIR). It is therefore envisioned that the EIR will include a program level analysis for implementation of the 2002 LRDP; and a project level analysis for implementation of the proposed Northwest Housing Infill Project element of the 2002 LRDP.

## 2002 LRDP

The State of California Department of Finance and the Public Postsecondary Education Commission anticipate substantial population growth and a consequential increase in demand for higher education in the State over the next decade. The University proposes to accommodate this increase in order to meet the State's needs and sustain its commitment to ensure access to public higher education under the Master Plan for Higher Education in California. It is anticipated that UCLA could experience an increase in enrollment of approximately 4,000 full time equivalent students by the year 2010. This potential increase would exceed the student enrollment assumptions in the adopted 1990 LRDP. Accordingly, UCLA will update the LRDP and prepare an Environmental Impact Report ("the 2002 LRDP EIR") in accordance with Section 21080.09 of the California Environmental Quality Act.

The 2002 LRDP EIR will incorporate relevant information and analyses from the Final EIR on the 1990 LRDP (SCH#89072618), certified by The Regents of the University of California in November, 1990 ("1990 LRDP FEIR"). The 1990 LRDP FEIR previously analyzed the environmental consequences of a proposed 3.71 million square feet of new development between 1990 and 2005. The 2002 LRDP EIR will evaluate the anticipated enrollment increase and the completion of the previously analyzed development program by 2010, of which approximately 1.9 million gross square feet remains. Furthermore, the 2002 LRDP EIR will incorporate the 1990 LRDP mitigation measures as appropriate, including the limits on the campus overall parking inventory and vehicular trip generation. By so doing, the 2002 LRDP will extend the 1990 LRDP from the original 2005 horizon year to 2010 by maintaining the overall development square footage, parking and trip generation limits of the Plan while accommodating an increased level of enrollment and associated population growth.

The 2002 LRDP EIR will consider the potential environmental effects of the development of the remaining approximately 1.9 million square feet of space allowed under the 1990 LRDP for academic, research, housing and other uses on campus. In addition, the 2002 LRDP EIR will serve as a program EIR for the consideration of subsequent project proposals consistent with the 2002 LRDP. As part of the environmental analysis for the 2002 LRDP, the University will evaluate all of the mitigation measures identified in the 1990 LRDP FEIR to determine whether new or modified mitigation measures are necessary to reduce the potential significant impacts of campus development through 2010.

# Northwest Housing Infill Project

As discussed above, the 2002 LRDP EIR will consider the potential environmental effects of a proposed project to provide additional undergraduate student housing in the Northwest zone of the campus (Northwest Student Housing Infill Project), an integral element of the proposed 2002 LRDP. The project would include the following: up to 2,000 beds of undergraduate student housing in three or more buildings adjacent to existing residential halls in the Northwest zone; (2) a parking facility south of Dykstra Hall to provide approximately 299 parking spaces (approximately 233 replacement and 66 new); (3) a recreation facility, 25-meter pool and low-intensity outdoor recreation space on a site between the Hitch and Saxon Residential Suites; and (4) the reconfiguration of the ground floors of three existing nearby residential halls. The project would result in the construction of up to 550,000 gross square feet of net new development on the UCLA campus. This square footage is included in the proposed 1.9 million square feet of development being considered in the 2002 LRDP.

In compliance with the State and University of California guidelines for implementation of the California Environmental Quality Act, this Revised Notice of Preparation is hereby sent to inform the State of California, Office of Planning and Research, that the University of California, Los Angeles is preparing a Draft Environmental Impact Report on the above-named projects. The attached Initial Study has been prepared to identify the potential environmental issues that will be addressed in the EIR for the 2002 LRDP, including the proposed Northwest Housing Infill Project, in accordance with CEQA as amended.

As Lead Agency, the University of California is interested in the views of public agencies with respect to the scope and content of the environmental information which is germane to each agency's statutory responsibilities in connection with the proposed projects. Similarly, the University is interested in the views of individuals and organizations with respect to the scope and content of the EIR. Agencies and individuals that commented on the June 2001 Notice of Preparation (NOP) are invited to re-submit comments based upon the revised project described herein and considered in the attached Initial Study.

Due to the time limits mandated by State law, responses to this Revised NOP must be sent at the earliest possible date, but not later than 30 days after receipt of this Notice. A public information and EIR scoping meeting is scheduled for April 6, 2002 at the UCLA campus and will be advertised in local newspapers and by direct mailing to notify interested individuals,

organizations, associations and agencies. Please designate a contact person from the State Office of Planning and Research and send responses to the address below.

Sincerely,

Joon Lelah

Tova Lelah Assistant Director Campus and Environmental Planning UCLA Capital Programs 1060 Veteran Avenue Los Angeles, CA 90095-1365 Fax (310) 206-1510

Attachments:

NOP Initial Study, March 2002 Document Transmittal Form Regional and Campus Location Maps

cc:

General Manager Frankie Banerjee, Los Angeles Department of Transportation Mr. Stephen Buswell, California Department of Transportation Mr. Dennis Dickerson, California Regional Water Quality Control Board Ms. Viviane Doche, Southern California Association of Governments Ms. Kathryn Higgins, SCAOMD Mr. Philip Thomas, CEO, Veterans Administration of Greater Los Angeles Superintendent Roy Romer, Los Angeles Unified School District Dr. Mary Ellen Gozdecki, Marymount High School Principal Margaret Heritage, Corinne A. Seeds University Elementary School Honorable Zev Yaroslavsky, County Supervisor, 3rd District Honorable Henry Waxman, U.S. Congress, California, 29th District Honorable Paul Koretz, State Assembly, 42nd District Honorable Herb J. Wesson, Jr., State Assembly, 47th District Honorable Sheila James Kuehl, State Senate, 23rd District Councilmember Cindy Miscikowski, 11th District Councilmember Jack Weiss, 5th District Chief Roy Prince, Building Administration, Los Angeles City Fire Department State of California, Department of Fish and Game

# City Planning Departments

Community Planning and Development, City of Santa Monica Planning Department, City of Los Angeles Planning Department, City of Beverly Hills Planning Department, Culver City Planning Department, West Hollywood

#### **County Agencies**

County of Los Angeles, Regional Planning, Environmental Section Los Angeles County Clerk

University of California and UCLA Administrators

Local Associations and Individuals

bcc:

#### University of California

Assistant Vice President Michael Bocchicchio Vice President and General Counsel James Holst Senior Planner Mary O'Keefe, Planning and Design University Counsel Hope Schmeltzer Director Jack Zimmerman, Planning and Design

## UCLA

Chancellor Albert Carnesale Assistant Vice Chancellor Max Benavidez Administrative Vice Chancellor Peter W. Blackman Executive Director Diana Brueggemann Assistant Vice Chancellor Glyn Davies Vice Chancellor Michael C. Eicher Campus Architect Marc Fisher Director Kathy FitzGerald, Project Management, Capital Programs Director Mike Foraker, Housing and Hospitality Services Associate Director Renee Fortier, Transportation Services Executive Vice Chancellor Wyatt R. Hume Associate Vice Chancellor Paula Lutomirski Director John MacDougall, Engineering, Capital Programs Vice Chancellor Joseph D. Mandel Associate Administrative Vice Chancellor Sam Morabito Assistant Vice Chancellor Michael O'Donnell Assistant Vice Chancellor Jack Powazek Assistant Vice Chancellor Sue Santon Director Natalie Shivers, Campus Capital Planning, Capital Programs Director Mark Stocki, Transportation Services Stephanie Tollenaere, Principal Project Manager, Capital Programs

UCLA Academic Senate, Council on Planning and Budget President, Graduate Student Association President, Undergraduate Student's Association Council

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bcc:

#### Local Associations and Individuals

Mr. Richard Agay, Westside Community Planning Council Ms. Elizabeth Brainard, President, Brentwood Glen Homeowners Association Ms. Sandy Brown, The Holmby-Westwood Property Owners Association, Inc. Ms. Beatrice Collins, Holmen Condo Association Mr. Don Farkas, Bel-Air/Beverly Crest Neighborhood Council, Casiano Bel-Air Estates Ms. Elaine Gerdau, President, Bel-Air Association Dr. Laura Lake, Friends of Westwood Ms. Mary Leslie, Interim President, Los Angeles Business Council Travis Longcore, Ph.D., The Urban Wildlands Group Ms. Carole Magnuson, President, Westwood Hills Property Owners Association Mr. Mike Metcalf, Save Westwood Village Mr. & Mrs. Alvin Milder, UCLA Watch Mr. Tom Paterson, The Holmby Westwood Property Owners Association, Inc. Mr. Scott Regberg Mr. Robert Ringler, President, Residents of Beverly Glen Mr. Steve Sann Professor Donald Shoup, UCLA School of Public Policy Ms. Shelly Taylor, North Village Association Mr. Stephen Twining, President Roscomare Valley & Hillside Homeowners Association

Mr. Bob Walsh, Executive Director, Westwood Community Alliance

Ms. Liza White, Westwood Community Neighborhood Council Organizing Committee

#### Notice of Completion — Form A

Mail to: State Clearinghouse, 1400 Tenth Street, Sacramento, CA 95814 (916) 445-0613

See Note Below SCH#

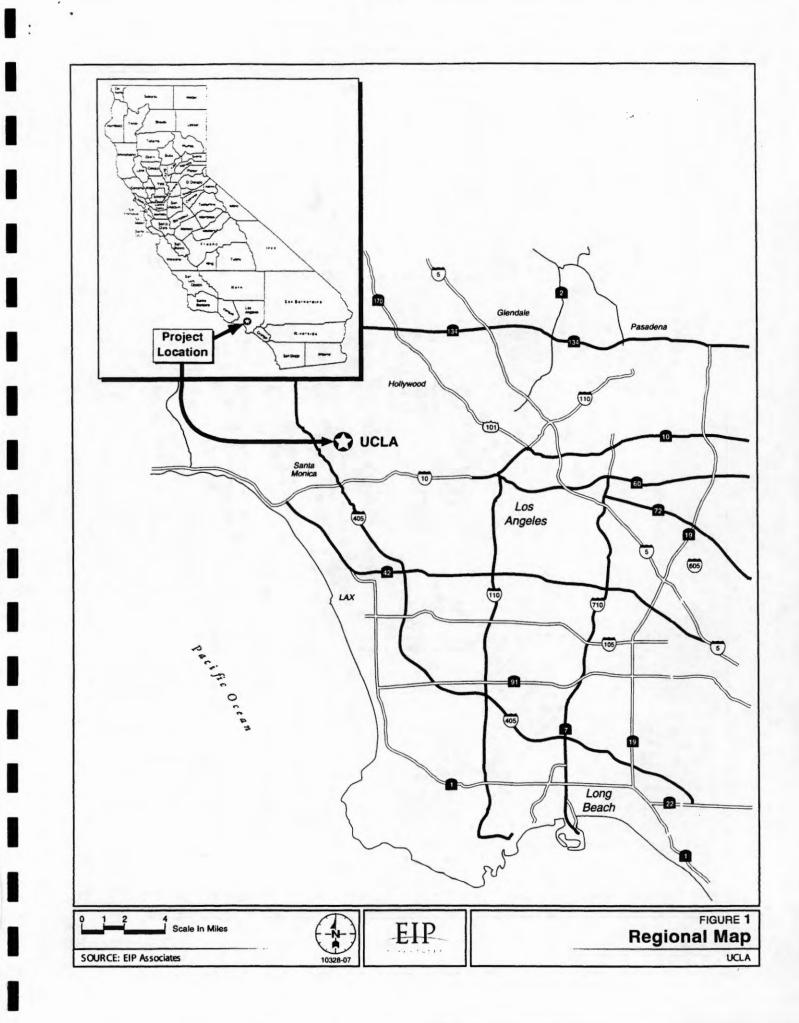
	Long Range Development Plan (LRDI			_
Lead Agency: University	of California, Los Angeles	Contact Person:		
	in Avenue, CPB 3rd Fl.	Phone:	(310) 206-5482	2
City: Los Angeles	Zip: 90095	County:	Los Angeles	
<b>Project Location</b>				
County: Los Angeles		Los Angeles		
Cross Streets: Westwood Plaza/ Conte Avenue	<u>Le</u> Zip Code: 90095	Total Acres: 419		
Assessor's Parcel No.		Section/Twp	Rano	e/Base:
Within 2 Miles:	State Hwy #:1-405	Waterways:		, Duse
	Airports:	Railways:	Scho	ols:
Document Type CI	EQA:	NEPA:		Other:
☑ NOP	Supplement/Subsequent EIR (Prior SCH No.)	NOI		Joint Document
Early Cons		EA EA		Final Document
Neg Dec	Other	Draft EIS		Other
Draft EIR		G FONSI		
Local Action Type				
General Plan Update	Specific Plan	Rezone		Annexation
General Plan Amendment		Prezone	ū	Redevelopment
General Plan Element	Planned Unit Development	Use Permit		Coastal Permit
Community Plan	Site Plan	-	n (Subdivision,	Other LRDP & project
		Parcel & Trad		approval
Development Type		Water Facil	ities: Type_	MGD
Residential: Units	Acres	Transportati	ion: Type_	
Office: Sq. ft.	Acres Employees	Mining:		al
Commercial: Sq. ft.	Acres Employees	Power:		Watts
Industrial: Sq. ft.	Acres_ Employees	Waste Treat	tment: Type	
Educational			Waste: Type	
Recreational		Other LRI		
Project Issues Discussed	in Document			
Aesthetic/Visual	Flood Plain/Flooding	Schools/Un	iversities 🗹	Water Quality
Agricultural Land	Forest Land/Fire Hazard	Septic Syste		Water Supply/Groundwater
Air Quality	Geologic/Seismic	Sewer Capa		Wetland/Riparian
Archeological/Historical	Minerals		ompaction/ Grading	Wildlife
Coastal Zone	☑ Noise	Solid Waste		Growth Inducing
Drainage/Absorption	Population/Housing Balance	Toxic/Haza		Land Use
Economic/Jobs	Public Services/Facilities	Traffic/Circ		Cumulative Effects
Fiscal	Recreation/Parks	☑ Vegetation		Other
Present Land Use/Zoning		Campus		

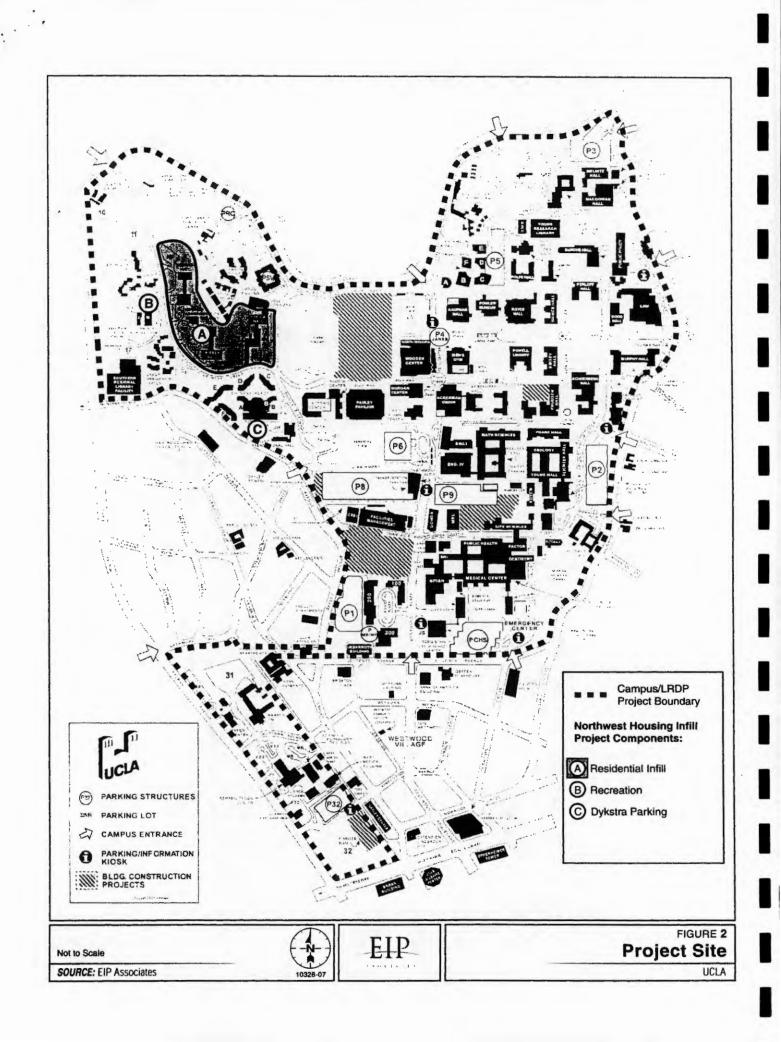
#### Present Land Use/Zoning/General Plan Use

#### **Project Description**

The University of California, Los Angeles proposes to update the campus' Long Range Development Plan (LRDP), previously adopted by The Regents of the University of California in November 1990. The 2002 LRDP will be undertaken to address anticipated growth in enrollment of approximately 4,000 full-time-equivalent students by the year 2010. Planning efforts underway to update the LRDP have converged with planning to address the housing needs of existing and anticipated enrollment. UCLA now proposes to construct additional on-campus student housing in the Northwest Housing Infill Project (NW Hsg). The NW Hsg project would include up to 2,000 beds of undergraduate student housing in three or more buildings, a parking facility to provide approximately 299 spaces (approximately 233 replacement and 66 new); a recreation facility and reconfiguration of the ground floors of three existing residence halls. The project would result in the construction of up to 550,000 gross square feet (gsf) of net new development. The 1990 LRDP FEIR previously analyzed the environmental consequences of 3.71 million gsf of new development between 1990 and 2005. The 2002 LRDP will evaluate the anticipated enrollment increase and the completion, by approximately 2010, of the previously analyzed development program, of which approximately 1.9 million gsf remains. In this regard, the LRDP will consider the potential environmental effects of the development of approximately 1.9 million gsf of space for academic, research, housing and other uses on campus. It is envisioned that the EIR will include a program level analysis for implementation of the 2002 LRDP; and a project level analysis for implementation of the proposed NW Hsg Project element of the 2002 LRDP. Furthermore, the 2002 LRDP EIR will incorporate the 1990 LRDP mitigation measures as appropriate, including the limits on the campus overall parking inventory and vehicular trip generation. By so doing, the 2002 LRDP will extend 1990 LRDP from the original 2005 horizon year to 2010 by maintaining the overall development square footage, parking and trip generation limits of the Plan while accommodating an increased level of enrollment and associated population growth.

Note: Clearinghouse will assign identification numbers for all new projects. If a SCH number already exist for a project (e.g. from a Notice of Preparation or previous draft document) Please fill it in. Revised October 1989





# ENVIRONMENTAL CHECKLIST FORM

(Initial Study/Notice of Preparation)

# **UNIVERSITY OF CALIFORNIA**

DATE: March 20, 2002

BY:.

ECEIVE

IL MAR 2 6 2002

CAMPUS: Los Angeles

# I. PROJECT INFORMATION

1. Project title:

UCLA 2002 Long Range Development Plan

2. Lead agency name and address:

The Regents of the University of California 1111 Franklin Street, 12<sup>th</sup> Floor Oakland, California 94607

#### 3. Contact person and phone number:

Tova Lelah Assistant Director University of California, Los Angeles Capital Programs, Environmental Planning 1060 Veteran Avenue Los Angeles, CA 90095-1365 (310) 206-5482

4. Project location:

University of California, Los Angeles Los Angeles, California 90095 Refer to Figures 1 and 2

## 5. Project sponsor's name and address:

University of California, Los Angeles (UCLA) Capital Programs, Environmental Planning 1060 Veteran Avenue Los Angeles, CA 90095-1365

#### 6. Custodian of the administrative record for this Project:

Refer to Section I, Item 3 (above).

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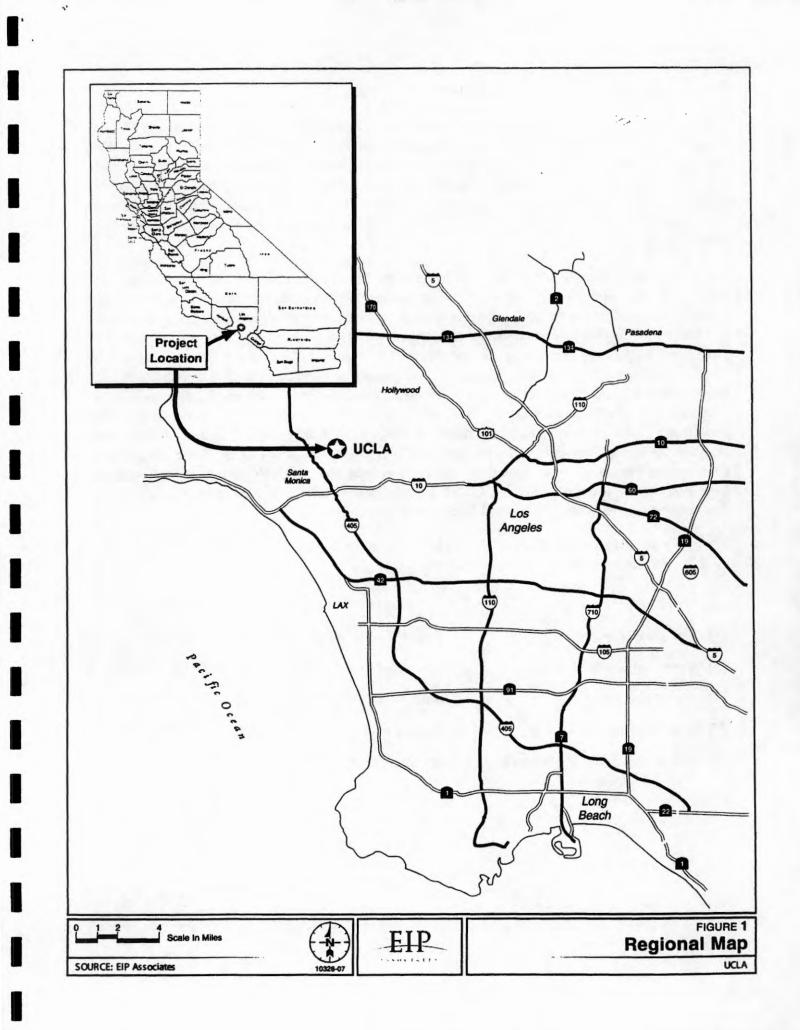
#### Northwest Housing Infill Project

UCLA also proposes to construct the Northwest Housing Infill Project, 'consisting of approximately 550,000 gross square feet of the remaining development allocation under the LRDP in the Northwest Zone of the campus. The proposed project would include: (1) up to 2,000 beds of undergraduate student housing in three or more buildings in three areas adjacent to existing housing facilities; (2) a parking facility south of Dykstra Hall to provide approximately 299 parking spaces, including 233 parking spaces to replace those removed by the project in various areas of the project site, and 66 new spaces; (3) a recreation facility with a recreation building, 25-meter pool, and passive outdoor recreation space on a site between the Hitch and Saxon Residential Suites, just north of the Ornamental Horticulture Buildings; and (4) the reconfiguration of the ground floors of three nearby residential halls (i.e., Sproul, Hedrick, and Reiber) to accommodate support services (e.g., mailrooms, food facilities, administrative offices) for the existing and proposed residence halls.

The Northwest Housing Infill Project Environmental Impact Report ("Northwest Housing Infill Project EIR") will provide a project-specific environmental analysis as Volume 2 of the 2002 LRDP EIR. The analysis of the proposed project would build upon the broader analysis of environmental impacts resulting from implementation of the 2002 LRDP, which will be addressed in Volume 1 of the LRDP EIR, as described above. The organization of the environmental analysis for the Northwest Housing Infill Project EIR will avoid repetition of detailed information and analysis provided in Volume 1, such as general background and setting information for environmental topic areas, the regulatory context, overall growth-related issues (including growthinducing impacts), issues for which there is no additional information that would require a new or different analysis, cumulative impacts, and broad campus planning alternatives. Instead, the analysis that will be presented in Volume 2 will reflect more detailed information available regarding the Northwest Housing Infill Project and the project site, as compared to the broader, planning level information known about the campus as a whole. Therefore, Volume 2 will only provide detailed analysis for those resource areas for which additional analysis will be necessary to assess the proposed project; Volume 2 will summarize and incorporate by reference the relevant analysis of each resource areas that has been deemed to have been adequately addressed in Volume 1. In addition, each summarized resource area discussion will include a discussion of why the analysis provided in Volume 1 is adequate for the Northwest Housing Infill Project. Volume 2 will also include a project-specific alternatives analysis.

The issue areas for which additional analysis will be provided in Volume 2 of the EIR include aesthetics, air quality, biological resources, geology and soils, hazards and hazardous materials, noise, recreation, and transportation/traffic. For those specific impacts associated with the Northwest Housing Infill Project that are adequately analyzed in Volume I of the LRDP EIR, a specific disclosure of this fact is provided in the Initial Study; otherwise, the scope of analysis that will be provided in Volume 2 is identified.

This Initial Study has been prepared to identify the potential environmental issues that will be addressed in the EIR for the UCLA 2002 LRDP, including the proposed Northwest Housing Infill Project, in accordance with the California Environmental Quality Act (CEQA) of 1970, as



## III. PURPOSE OF THE INITIAL STUDY

Section 21080.09(b) of CEQA requires that the approval of a campus Long Range Development Plan be supported by an EIR. Accordingly, the University is preparing an EIR in compliance with this requirement. Therefore, as identified in Section 15063(c) of the CEQA Guidelines, the purpose of this initial study checklist is to: (1) inform responsible agencies and the public of the nature of the proposed project and its location, (2) identify impacts that will clearly be less than significant and therefore will not be discussed in the EIR, and (3) provide a general description of the topics intended to be addressed in the EIR.

This initial study generally utilizes the checklist set forth in Appendix G of the CEQA guidelines, and indicates for each of the environmental topic areas addressed in that checklist whether the topic will be, or will not be, analyzed in the EIR. Impacts for which no additional analysis is required include impacts that clearly will not result from construction or operation of the project, as well as impacts that will clearly be less than significant under CEQA criteria. The impacts to be analyzed include impacts that may be significant and unavoidable, impacts that are potentially significant but may be reduced to less than significant levels through the adoption of mitigation measures, impacts for which further analysis is necessary or desirable before a determination of significance can be made, and less than significant impacts that the University intends to include in the document to provide a more comprehensive analysis. As appropriate, the analysis will include a program-level analysis for the entire Long Range Development Plan, a project-level analysis for the Northwest Housing Infill Project, and cumulative-level analysis for potential effects of LRDP implementation combined with known and reasonably foreseeable future growth on campus and in the surrounding area.

The environmental factors checked below will be addressed in the EIR, as described in greater detail in the following discussions:

Air Quality Aesthetics Agriculture Resources  $\boxtimes$ X **Biological Resources**  $\mathbf{X}$ Cultural Resources  $\boxtimes$ Geology/Soils X Land Use/Planning Hazards & Hazardous Materials Hydrology/Water Quality  $\mathbf{X}$ Mineral Resources X Noise  $\boxtimes$ Population/Housing Transportation/Traffic  $\mathbf{X}$ **Public Services**  $\boxtimes$ Recreation  $\boxtimes$ Mandatory Findings of Significance Utilities/Service Systems/Energy  $\mathbf{X}$ 

#### V. EVALUATION OF ENVIRONMENTAL IMPACTS:

- A. All answers take account of the whole action involved, including beneficial, direct, indirect, construction-related, operational, and cumulative impacts.
- B. A list of references used in the preparation of this Initial Study is included in Section VI of this document.
- C. Appendix G of the CEQA Guidelines provides only a suggested format to use when preparing an Initial Study. UCLA has adopted a slightly different format with respect to the response column headings (refer to the definitions provided below), while still addressing the Appendix G checklist questions that are relevant to each environmental issue area.

#### **Response Column Heading Definitions**

As stated above, lead agencies are free to use different formats in the evaluation of environmental impacts. This Initial Study serves to identify the potential environmental impacts that will be addressed in the EIR for the proposed project. Thus, this document has been modified from the standard format to a two-column format as follows:

- A. Impact to be Analyzed applies to those environmental issues, which may or may not be significant, that will be addressed in the Environmental Impact Report. As appropriate, the analysis will include a program level analysis for the entire 2002 LRDP, a project-level analysis for the Northwest Housing Infill Project, and a cumulative-level analysis for potential effects of LRDP implementation combined with known and reasonably foreseeable future growth in the surrounding area.
- B. No Additional Analysis required applies where the proposed LRDP implementation, including the Northwest Housing Infill Project, would have no effect on the particular environmental issue, and no additional analysis, beyond that provided in this Initial Study, is warranted or required.

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# c) Substantially degrade the existing visual character or quality of the site and its surroundings?

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The UCLA 2002 LRDP would continue to implement development on the campus within the level previously approved under the 1990 LRDP. However, because such development could occur on previously undeveloped sites, or in or near areas characterized by lower development intensities, Volume 1 of the LRDP EIR will analyze the potential effects of future development on the general character of those settings, as well as the components of visual settings, such as mature landscaping, and the potential for visual incongruity between proposed campus uses and adjacent land uses in the City of Los Angeles.

Additionally, while the Westwood Community Plan component of the Los Angeles City General Plan Framework Element designates a portion of Wilshire Boulevard as a scenic corridor, the corridor does not extend to the Wilshire Boulevard frontage of UCLA (between Veteran Avenue and Gayley-Avenue). The designated corridor terminates at approximately Tiverton Avenue, and no significant viewsheds have been identified from the Wilshire Corridor to the Southwest zone of the campus. The campus, however, recognizes that portions of the Southwest zone are visually associated with the Wilshire Corridor; therefore, Volume 1 of the EIR will also evaluate visual consistency between neighboring uses and potential campus development along Wilshire Boulevard.

Volume 2 of the EIR would provide a project-specific analysis of impacts to visual character that could result from implementation of the Northwest Housing Infill Project. This analysis would include the character, form, height, and massing of proposed campus structures and landscape elements in relation to on-campus and off-campus neighboring uses. Volume 2 will also address short-term impacts to visual character that could result from construction activities associated with implementation of the Northwest Housing Infill Project.

# d) Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?

New development under the 2002 LRDP, which could include locations near the perimeter of the campus, as well as areas that are currently undeveloped, could create new sources of light from exterior building illumination, lighted recreation/athletic facilities, and parking lots or structures, as well as glare from reflective building surfaces or headlights from additional vehicular traffic. The EIR will address whether these new sources of light or glare could affect day or nighttime views, or adjacent, sensitive land uses. Volume 2 of the EIR will also address the potential for project-specific increases in light and glare associated with implementation of the proposed Northwest Housing Infill Project.

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3. AIR QUALITY — Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:

a) Conflict with or obstruct implementation of the applicable air quality plan?

Additional on-campus development under the 2002 LRDP would result in short- and long-term emission of criteria air pollutants from mobile and stationary sources. Those emissions would contribute to the non-attainment status of the South Coast Air Basin (SCAB). Volume 1 of the EIR will analyze whether implementation of the 2002 LRDP would conflict with or obstruct implementation of the 1997 Air Quality Management Plan (AQMP), which outlines emission control strategies and programs designed to bring the SCAB into attainment or maintain existing attainment with the State and Federal ozone, carbon monoxide, nitrogen dioxide, and particulate matter standards. Volume 2 of the EIR will evaluate the potential for project-specific construction and operational impacts—both mobile and stationary—to result from development of the proposed Northwest Housing Infill Project.

b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?

The UCLA campus is located in the South Coast Air Basin, a non-attainment zone for ozone, carbon monoxide, nitrogen dioxide, and particulate matter. Implementation of the 2002 LRDP would result in additional on-campus development, which would result in the emission of criteria pollutants from stationary and mobile sources, which would contribute to existing exceedances of federal and state standards for criteria pollutants. Volume 1 of the EIR will characterize existing air quality in the vicinity of the campus, quantify potential short-term and long-term mobile- and stationary-source impacts that would result from the implementation of the 2002 LRDP, and identify potential mitigation measures to reduce impacts to the extent feasible. Volume 2 of the EIR will evaluate the potential air quality impacts related to construction and operation of the proposed Northwest Housing Infill Project.

c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

Additional development on the UCLA campus, combined with known and reasonably foreseeable growth in the region, would result in new sources of emissions within the SCAB. The 1997 AQMP was prepared to accommodate growth while improving regional air quality. Development under the 2002 LRDP will be compared to the AQMP performance standards to determine whether the new

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opportunities for protected species such as migratory birds, as well as common wildlife that are associated with highly developed areas.

The vegetation in the vicinity of the Northwest Housing Infill Project includes grasses, trees, shrubs, and flowers planted on the hillsides between existing housing facilities. Volume 2 of the EIR will include an analysis of potential habitat removal by vegetation type, including mature trees proposed for relocation and/or removal, and will evaluate potential habitat loss and fragmentation, as well as potential changes in species presence, abundance, and diversity. This analysis will primarily be informed by the data provided in Volume 1 of the EIR, as well as by observational surveys conducted specifically for the Northwest Housing Infill Project site.

## b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?

Stone Canyon Creek is a portion of the University drainage system that runs south of Corinne A. Seeds University Elementary School, north of the Anderson Graduate School of Management, and west of Royce Drive, finally reaching an underground box culvert in the vicinity of the Collins Center of the Anderson Graduate School of Management. Stone Canyon Creek is not characterized by any officially designated riparian communities, such as Foothill Riparian, Oak Woodland, or Sycamore Woodland, and is the only area on campus where the potential exists for these habitat types to occur: no other area on campus is characterized as riparian habitat. Further, the 2002 LRDP does not propose any long-term or permanent alternations to the creek. Therefore, no effects upon the creek are anticipated, and no additional analysis is required.

# c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

While it is not anticipated that Stone Canyon Creek would be characterized as a federally protected wetland due to the lack of plants characterized as hydrophytic according to the *National List of Plant Species That Occur in Wetlands* (U.S. Fish and Wildlife Service, 1988), the 2002 LRDP does not propose any long-term or permanent alterations to the creek. Additionally, no marshes, vernal pools or protected areas lie within the LRDP area. Therefore, no effects to wetlands are anticipated, and no additional analysis is required.

Impact to be Analyzed in EIR Required

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substantially more severe environmental impacts, because no historic structures would be altered by implementation of the project. Therefore, Volume 2 will rely upon the analysis provided in Volume 1 to adequately address this issue only when it applies to the Northwest Housing Infill Project.

# b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

The 1990 LRDP Final EIR stated (page IV.E-2) that no evidence of any archaeological remains has been discovered on campus; additionally, no resources have been discovered since 1990, and the 1990 LRDP Mitigation Monitoring Program 2000 Status Report indicated that no resources have been discovered during recent excavations for new development projects. However, a potential for discovery of such resources during excavations for future projects still exists. Because development under the 2002 LRDP could also potentially affect currently unknown archaeological resources, the campus will consult with the Native American Heritage Commission, as well as appropriate literature, and Volume 1 of the EIR will analyze the potential for additional development on the campus to result in damage to unidentified archaeological resources.

The analysis of this issue will be fully addressed in Volume 1 of the EIR, and no additional information regarding the Northwest Housing Infill Project would result in new, different, or substantially more severe environmental impacts. Therefore, Volume 2 will rely upon the analysis provided in Volume 1 to adequately address this issue only when it applies to the Northwest Housing Infill Project.

# c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

A literature survey performed for the LRDP indicated that no fossils have been recovered in rocks within the campus boundaries. However, as with archaeological resources, a potential exists for the discovery of paleontological resources during excavations for future projects. Therefore, Volume 1 of the EIR for the 2002 LRDP will include an evaluation of the potential for the rock units that underlie the campus to contain paleontological resources, and the potential for development under the 2002 LRDP to result in damage to significant or potentially significant paleontological resources.

The analysis of this issue will be fully addressed in Volume 1 of the EIR, and no additional information regarding the Northwest Housing Infill Project would result in new, different, or substantially more severe environmental impacts. Therefore, Volume 2 will rely upon the analysis provided in Volume 1 to adequately address this issue only when it applies to the Northwest Housing Infill Project.

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seismic-related ground failure, including liquefaction, for the campus as a whole and identify potential areas of risk. Volume 2 of the EIR will include a site-specific assessment to determine the potential for seismic-related ground failure, including liquefaction, for the Northwest Housing Infill Project.

#### iv) Landslides?

Volume 1 of the EIR will use CDMG-published seismic hazard maps to evaluate the risk of landsliding for the campus as a whole and identify potential areas of risk. Volume 2 of the EIR will include a site-specific assessment to determine the potential for landslides for the Northwest Housing Infill Project.

#### b) Result in substantial soil erosion or the loss of topsoil?

As described in Response 2.a, above, no prime topsoil is known to exist on campus. Therefore, Volumes 1 and 2 of the EIR will only examine the potential for erosion hazards to occur as a result of development of the 2002 LRDP, which includes the Northwest Housing Infill Project.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

Refer to Response 6.a.iii, above, for a discussion of liquefaction. Because soil stability and other properties must be evaluated on a site-specific basis, and because the 2002 LRDP is a general land use plan intended to guide the pattern of development on campus, and does not articulate specific developments other than the Northwest Housing Infill Project, Volume 1 of the EIR will generally address the potential risks associated with soil characteristics of the campus. Volume 2 of the EIR will address site-specific soil conditions and evaluate potential impacts of these conditions with respect to the Northwest Housing Infill Project.

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?

Refer to Response 6.c, above. Volume 2 of the EIR will include a site-specific evaluation of the characteristics of the soils underlying the proposed Northwest Housing Infill Project.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

The UCLA campus is provided sanitary sewer service by the Sanitation Districts of Los Angeles

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d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

Some campus facilities are included on lists and databases compiled by local, State, and Federal agencies pursuant to Government Code Section 65962.5. The majority of these sites appear to be registered underground storage tanks and similar facilities, rather than contaminated sites. However, an analysis of the hazards posed by development on a listed site must be site-specific, and the 2002 LRDP is a general land use plan intended to guide the pattern of development on campus and does not articulate specific developments other than the Northwest Housing Infill Project. Therefore, Volume 1 of the EIR will discuss the presence of such sites on the campus as a whole, and the potential risks associated with development on these sites. Volume 2 of the EIR will evaluate whether the proposed Northwest Housing Infill Project would be developed on a listed site, and the degree to which such a condition, if it exists, would represent a significant hazard to the public or the environment.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?

The campus is not located within two miles of a public airport or public use airport, and has not been included in an airport land use plan. No additional analysis is required.

f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

The Medical Center complex currently operates a heliport for emergency transport of critically ill patients, and as previously analyzed in the 1998 Academic Health Center Facilities Reconstruction Project Final EIR, will be relocated to the new medical center that is now under construction. While the heliport is currently in use, Volume 1 of the EIR will evaluate the potential safety hazard of the heliport, at both locations, to additional developments proposed under the 2002 LRDP. Volume 2 of the EIR will evaluate the potential safety hazard posed by both locations of the heliport to the occupants of the proposed Northwest Housing Infill Project.

## g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Construction and operation activities associated with development under the 2002 LRDP could potentially affect emergency response or evacuation plans. Volume 1 of the EIR will, therefore, evaluate whether implementation of the 2002 LRDP would impair implementation of, or physically

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on groundwater supplies, and will examine whether an increase in impermeable surfaces and/or excavation during construction would degrade groundwater quality or quantity.

The analysis of this issue will be fully addressed in Volume 1 of the EIR, and no additional information regarding the Northwest Housing Infill Project would result in new, different, or substantially more severe environmental impacts. Therefore, Volume 2 will rely upon the analysis provided in Volume 1 to adequately address this issue only when it applies to the Northwest Housing Infill Project.

# c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation onor off-site?

Implementation of the 2002 LRDP would not result in alterations to a stream or river course. As described above in Response 4.b, the 2002 LRDP does not propose and would not result in permanent or long-term alterations of Stone Canyon Creek, the only feature on campus that could potentially be characterized as a stream. However, construction activities associates with implementation of the 2002 LRDP could result in alterations of drainage patters that could result in erosion or siltation. Additionally, future development could alter drainage patterns at the site of new buildings, which could result in an increase in runoff and the potential for increased erosion or siltation. Volume 1 of the EIR will evaluate potential impacts related to increased erosion or siltation.

The analysis of this issue will be fully addressed in Volume 1 of the EIR, and no additional information regarding the Northwest Housing Infill Project would result in new, different, or substantially more severe environmental impacts. Therefore, Volume 2 will rely upon the analysis provided in Volume 1 to adequately address this issue only when it applies to the Northwest Housing Infill Project.

# d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner, which would result in flooding on- or off-site?

Implementation of the 2002 LRDP would not result in alterations to a stream or river course. As described above in Response 4.b, the 2002 LRDP does not propose and would not result in permanent or long-term alterations of Stone Canyon Creek, the only feature on campus that could potentially be characterized as a stream. Volume 1 of the EIR will address broad, campus-wide drainage patterns and whether a potential increase in the rate or amount of surface runoff would result in flooding on or off site.

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Northwest Zone of the campus (Zone C), and additional development of residential uses is anticipated to occur there. Therefore, because no housing is anticipated to be placed in a 100-year flood, no further analysis of this issue is required. (Refer to Figure 3)

Additional information regarding the Northwest Housing Infill Project would not result in new, different, or substantially more severe environmental impacts; therefore, no further analysis of this issue is required in Volume 2.

#### h) Place within a 100-year flood hazard area structures, which would impede or redirect flood flows?

The 2002 LRDP is a general land use plan intended to guide the pattern of development on campus and does not articulate specific projects or structures other than those proposed as part of the Northwest Housing Infill Project. As described above in response 8.g., potential development, including the Northwest Housing Infill Project, would be constructed within a 100-year flood plain. Volume 1 of the EIR will, therefore include a discussion of flood zone designations on campus, and the potential effects of development in 100-year flood zones with respect to the impedance or redirection of flood flows.

The analysis of this issue will be fully addressed in Volume 1 of the EIR, and no additional information regarding the Northwest Housing Infill Project would result in new, different, or substantially more severe environmental impacts. Therefore, Volume 2 will rely upon the analysis provided in Volume 1 to adequately address this issue only when it applies to the Northwest Housing Infill Project.

# i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?

The Stone Canyon Reservoir, located north of the campus across Sunset Boulevard, is operated by the City of Los Angeles Department of Water and Power (DWP). According to the DWP, the dam structures associated with the reservoir are in good condition. However, a catastrophic failure of this structure could result in flooding on the UCLA campus. Volume 1 of the EIR will evaluate the potential for people or structures to be subject to flooding as result of such a failure.

The analysis of this issue will be fully addressed in Volume 1 of the EIR, and no additional information regarding the Northwest Housing Infill Project would result in new, different, or substantially more severe environmental impacts. Therefore, Volume 2 will rely upon the analysis provided in Volume 1 to adequately address this issue only when it applies to the Northwest Housing Infill Project.

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#### j) Inundation by seiche, tsunami, or mudflow?

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The UCLA campus is located in an inland area and at a sufficient elevation not to be subject to tsunamis. No large, open bodies of water that would represent a substantial seiche risk are located on campus. Stone Canyon Reservoir, as discussed above in Response 8.i, is located north of the campus. However, according the Los Angeles Department of Water and Power (DWP: Brodt 2002), no seiche at a DWP facility has ever been recorded, even during the 1994 Northridge earthquake, which exhibited strong, north-south pulsing motion at the Stone Canyon Reservoir. The DWP does not consider seiching to be a significant hazard, and has stated that even if such an event occurred, the amount of water released would be trivial, and would not constitute any significant portion of a reservoir's volume. Therefore, no additional analysis of seiching is required.

Portions of the campus may also be potentially subject to mudflows; therefore Volume 1 of the EIR will evaluate the potential for inundation of portions of the campus by mudflows, and Volume 2 of the EIR will address the potential for inundation by mudflow of the proposed Northwest Housing Infill Project.

#### 9. LAND USE AND PLANNING -- Would the project:

#### a) Physically divide an established community?

The community surrounding the UCLA campus is fully developed. The LRDP is the campus land use plan that guides future development within the existing campus boundaries. Development outside the campus boundaries would not be governed by the LRDP. Therefore no incursion into or division of the surrounding residential communities would occur from implementation of the LRDP and no additional analysis is required.

b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the LRDP, general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

The University of California is constitutionally exempt from local zoning and land use plan/element requirements. Therefore, the land use policy analysis will focus upon potential conflicts between campus uses that could potentially be developed under the 2002 LRDP, and existing on-campus and neighboring off-campus uses, as well as compliance with applicable 2002 LRDP policies and square footage allocations for the Northwest zone of the campus.

The analysis of this issue will be fully addressed in Volume 1 of the EIR, and no additional information regarding the Northwest Housing Infill Project would result in new, different, or substantially more severe environmental impacts. Therefore, Volume 2 will rely upon the analysis

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	Infill Project.		
b)	Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	$\boxtimes$	
	Construction activities could result in generation of excessive groundborn noise levels. Volume 1 of the EIR will evaluate the potential impacts associated with implementation of the 2002 LRDP. Volume 2 will prov of groundborne vibration or noise levels associated specifically with Northwest Housing Infill Project.	of construct ide a project-l	ion activitie evel analysi
c)	A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	$\boxtimes$	
	Refer to Response 11.a, above.		
d)	A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	$\boxtimes$	
	Refer to Response 11.a, above.		
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?		
	The UCLA campus is not located within an airport land use plan, or with airport or public use airport. No additional analysis is required.	thin two mile	s of a publi

f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?

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The UCLA campus is not located within the vicinity of a private airstrip. However, the Medical Center complex currently operates a heliport for emergency transport of critically ill patients, and as previously analyzed in the 1998 Academic Health Center Facilities Reconstruction Project Final EIR, will be relocated to the new medical center that is now under construction. Volume 1 of the EIR will, therefore, identify existing and future helicopter noise levels and determine whether additional people would be subject to excessive noise levels from helicopter operations. Additionally, Volume 2 of the EIR will evaluate the potential effects of existing and future helicopter noise upon the students that would reside in the proposed Northwest Housing Infill Project.

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No Additional Analysis Required

#### **13. PUBLIC SERVICES**

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

#### i) Fire protection?

Volume 1 of the EIR will evaluate whether implementation of the 2002 LRDP would increase demand for fire protection services and compare the potential increase in demand with existing and planned equipment and staffing levels. The EIR will also evaluate the potential impacts of new, expanded, or altered facilities, if they are required to meet an increase in demand.

The analysis of this issue will be fully addressed in Volume 1 of the EIR, and no additional information regarding the Northwest Housing Infill Project would result in new, different, or substantially more severe environmental impacts. Therefore, Volume 2 will rely upon the analysis provided in Volume 1 to adequately address this issue only when it applies to the Northwest Housing Infill Project.

#### ii) Police protection?

Police protection services for the UCLA campus are provided by the University of California Police Department and the Los Angeles Police Department (LAPD). Volume 1 of the EIR will evaluate whether implementation of the 2002 LRDP would increase the demand for police protection and compare the potential increase in demand to existing and planned equipment and staffing levels. The EIR will also evaluate the potential impacts of new, expanded, or altered facilities, if they are required to meet an increase in demand.

The analysis of this issue will be fully addressed in Volume 1 of the EIR, and no additional information regarding the Northwest Housing Infill Project would result in new, different, or substantially more severe environmental impacts. Therefore, Volume 2 will rely upon the analysis provided in Volume 1 to adequately address this issue only when it applies to the Northwest Housing Infill Project.

#### iii) Schools?

Increased student enrollment, combined with associated increases in faculty and staff, may increase the number of school-age children that would potentially enroll in local schools. Volume 1 of the EIR will evaluate potential effects of increased enrollment on the capacity of

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capacity of existing or planned neighborhood, community, and regional parks. The EIR will also evaluate the potential impacts of new, expanded, or altered facilities, if they are required to meet an increase in demand. The discussion of recreational impacts will be provided in the Public Services section of the LRDP EIR.

The analysis of this issue will be fully addressed in Volume 1 of the EIR, and no additional information regarding the Northwest Housing Infill Project would result in new, different, or substantially more severe environmental impacts. Therefore, Volume 2 will rely upon the analysis provided in Volume 1 to adequately address this issue only when it applies to the Northwest Housing Infill Project.

# b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

The 2002 LRDP is a general land use plan intended to guide the pattern of development on campus and does not articulate specific projects or structures other than those proposed as part of the Northwest Housing Infill Project. However, additional recreational uses may be developed as part of the implementation of the 2002 LRDP; therefore, Volume 1 of the EIR will evaluate the potential effects of recreational uses within the context of the effects of general campus development.

Additionally, because the Northwest Housing Infill Project includes a recreation component that would provide additional recreational opportunities, Volume 2 of the EIR will evaluate the potential environmental effects of such facilities as part of the analysis for the project as a whole. The discussion of recreational impacts will be provided in the Public Services section of the LRDP EIR.

#### c) Does the project affect existing recreational opportunities?

As described above in Responses 13.a.iv, 14.a, and 14.b, the proposed Northwest Housing Infill Project would include additional recreational opportunities, and is not anticipated to reduce, eliminate, or otherwise affect existing recreational opportunities. Therefore, no further analysis is required.

#### 15. TRANSPORTATION/ TRAFFIC — Would the project:

a) Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)?

Potential increases in traffic that could result from implementation of the proposed 2002 LRDP would maintain the adopted trip limits articulated in the Trip Mitigation Monitoring Agreement between UCLA and the City of Los Angeles. Volume 1 of the EIR will include an analysis of

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with an emergency access route. Volume 2 of the EIR will evaluate the specific potential for construction activities associated with, or operation of, the Northwest Housing Infill Project to interfere with an emergency access route.

#### f) Result in inadequate parking capacity?

Volume 1 of the EIR will evaluate the adequacy of the parking on campus, based upon existing and projected parking demand. The EIR will also include an analysis of the campus transportation demand management (TDM) program, including new TDM measures that may be considered under the 2002 LRDP to address trip and/or parking demand reduction strategies. Volume 2 of the EIR will provide a project-level parking analysis for the Northwest Housing Infill project.

# g) Conflict with applicable policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?

The proposed 2002 LRDP will describe alternative transportation modes and Volume 1 of the EIR will analyze whether the implementation of the 2002 LRDP would conflict with existing LRDP policies supporting alternative transportation. Volume 2 of the EIR will also provide this analysis on a project-level basis for the Northwest Housing Infill Project.

### 16. UTILITIES/SERVICE SYSTEMS/ENERGY - Would the project:

#### a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

Implementation of the proposed 2002 LRDP could result in increased wastewater generation. Volume 1 of the EIR will, therefore, characterize current waste discharge volumes and wastewater treatment capacity, and evaluate whether the implementation of the 2002 LRDP would, in the context of any planned increases in water treatment capacity increases, result in a violation of applicable standards or requirements.

The analysis of this issue will be fully addressed in Volume 1 of the EIR, and no additional information regarding the Northwest Housing Infill Project would result in new, different, or substantially more severe environmental impacts. Therefore, Volume 2 will rely upon the analysis provided in Volume 1 to adequately address this issue only when it applies to the Northwest Housing Infill Project.

b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

Implementation of the proposed 2002 LRDP would increase the amount of on-campus building space and the on-campus residential population, which would result in an increase in water usage, as well

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e)	Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	$\boxtimes$	
	Refer to Response 16.b, above.		
f)	Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	$\boxtimes$	
	Implementation of the proposed 2002 LRDP could result in an increa generation. Volume 1 of the EIR will, therefore, evaluate whether ex		

ge capacity would be sufficient to accommodate the potential increases in solid waste generation that would result from implementation of the 2002 LRDP. The EIR will also evaluate the potential impacts of new, expanded, or altered facilities, if they are required to meet an increase in demand.

Volume 2 of the EIR will evaluate whether sufficient landfill capacity exists to accommodate the volume of solid waste that the Northwest Housing Infill Project is anticipated to generate.

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g) Comply with applicable federal, state, and local statutes and regulations related to solid waste?

Refer to Response 16.f, above. Volume 1 of the EIR will also evaluate the impact of implementation of the 2002 LRDP on campus compliance with applicable statutes and regulations related to solid waste, including the State of California Assembly Bill 939 (Integrated Waste Management Act).

The analysis of this issue will be fully addressed in Volume 1 of the EIR, and no additional information regarding the Northwest Housing Infill Project would result in new, different, or substantially more severe environmental impacts. Therefore, Volume 2 will rely upon the analysis provided in Volume 1 to adequately address this issue only when it applies to the Northwest Housing Infill Project.

h) Result in wasteful, inefficient or unnecessary consumption of  $\boxtimes$ energy?

Development of additional space would result in the consumption of additional energy, including electricity and natural gas. Volume 1 of the EIR will quantify the potential increase in campusrelated energy usage and determine whether implementation of the LRDP would result in the wasteful, inefficient, or unnecessary consumption of energy, as well as the electrical generation capacity of the Campus Energy Systems (Cogeneration) Facility and the conveyance systems for natural gas. Volume 1 of the EIR will also include assessments of the energy requirements of the implementation of the 2002 LRDP, the effects of the 2002 LRDP on energy resources and local and regional energy supplies, and the compliance of the 2002 LRDP with campus and applicable State

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c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

As indicated in the above discussions, implementation of the proposed 2002 LRDP has the potential to result in significant impacts. Volume 1 of the EIR will evaluate whether any of those impacts have the potential to result in substantial adverse effects on human beings.

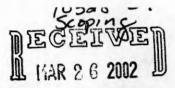
#### **VI. REFERENCES**

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# **NOTICE**

# Community Information and EIR Scoping Meeting UCLA Long Range Development Plan and Northwest Housing Infill Project

April 6, 2002, 8:30 a.m. – 12:30 p.m. Morgan Center, Press Room UCLA Campus

The University of California, Los Angeles proposes to update the campus 1990 Long Range Development Plan (LRDP) to address anticipated growth in student enrollment of 4,000 full time equivalent students by the year 2010. This increase would exceed the student enrollment assumptions in the adopted 1990 LRDP. The update will essentially extend the 1990 LRDP from the original 2005 horizon year to 2010 by maintaining the overall development square footage, parking and trip generation limits of the Plan while accommodating an increased level of enrollment and associated population growth.

Planning efforts to accommodate increased student enrollment have led to an accompanying proposal to construct the Northwest Housing Infill Project to address the housing needs of an expanded student enrollment. The proposed housing project includes up to 2,000 undergraduate student beds; a parking facility to provide approximately 299 parking spaces (233 replacement and 66 new); and a recreation facility, 25-meter pool and low-intensity outdoor recreation space in the Northwest zone of campus adjacent to existing on-campus residence halls.

In accordance with the California Environmental Quality Act, potential environmental effects of both the proposed 2002 update of the LRDP ("2002 LRDP") and the Northwest Housing Infill Project will be analyzed in a single Environmental Impact Report (EIR). The EIR will include a program-level analysis for the implementation of the 2002 LRDP and a project-level analysis for implementation of the proposed Northwest Housing Infill Project element of the 2002 LRDP.

A Community Information and EIR Scoping Meeting will be held on April 6, 2002, from 8:30 a.m. to 12:30 p.m. at the Morgan Center, Press Room on the UCLA campus. Courtesy parking tags for parking lots adjacent to the Morgan Center will be provided at the Westwood Plaza parking kiosk. All interested agencies, associations and individuals are invited to attend to receive information about the proposed LRDP update and Northwest Housing Infill Project and to assist UCLA in identifying relevant environmental issues that should be addressed in the EIR.

A map showing meeting and parking locations is attached, as well as the proposed agenda for the meeting.

Those unable to attend the meeting who wish to be placed on a mailing list to receive notice of future meetings and the release of the EIR may send their name and address to:

UCLA Capital Programs Campus and Environmental Planning 1060 Veteran Avenue Los Angeles, CA 90095-1365 Fax: (310) 206-1510



Governor's Office of Planning and Research State Clearinghouse

Notice of Preparation



Tal Finney INTERIM DIRECTOR

Gray Davis governor

March 21, 2002

To: Reviewing Agencies

Re: UCLA 2002 Long Range Development Plan (LRDP) and Northwest Housing Infill Project SCH# 2002031115

Attached for your review and comment is the Notice of Preparation (NOP) for the UCLA 2002 Long Range Development Plan (LRDP) and Northwest Housing Infill Project draft Environmental Impact Report (EIR).

Responsible agencies must transmit their comments on the scope and content of the NOP, focusing on specific information related to their own statutory responsibility, within 30 days of receipt of the NOP from the Lead Agency. This is a courtesy notice provided by the State Clearinghouse with a reminder for you to comment in a timely manner. We encourage other agencies to also respond to this notice and express their concerns early in the environmental review process.

Please direct your comments to:

Tova Lelah University of California, Los Angeles 1060 Verteran Avenue, CPB 3rd Floor Los Angeles, CA 90095

with a copy to the State Clearinghouse in the Office of Planning and Research. Please refer to the SCH number noted above in all correspondence concerning this project.

If you have any questions about the environmental document review process, please call the State Clearinghouse at (916) 445-0613.

Sincerely,

Scott Morgan

Project Analyst, State Clearinghouse

Attachments cc: Lead Agency

## Document Details Report State Clearinghouse Data Base

#### SCH# 2002031115

Project TitleUCLA 2002 Long Range Development Plan (LRDP) and Northwest Housing Infill ProjectLead AgencyUniversity of California, Los Angeles

#### Type NOP Notice of Preparation

Description

The University of California, Los Angeles proposes to update the campus' Long Range Development Plan (LRDP), previously adopted by the Regents of the University of California in November 1990. The 2002 LRDP will be undertaken to address anticipated growth in enrollment of approximately 4,000 full-time-equivalent students by the year 2010. Planning efforts underway to update the LRDP have converged with planning to address the housing needs of existing and anticipated enrollment. UCLA now proposes to construct additional on-campus student housing in the Northwest Housing Infill Project (NW Hsg). The NW Hsg project would include up to 2,000 beds of undergraduate student housing in three or more buildings, a parking facility to provide approximately 299 spaces (approximately 233 replacement and 66 new); a recreation facility and reconfiguration of the ground floors of three existing residence halls. The project would result in the construction of up to 550,000 gross square feet (gsf) of net new development. The 1990 LRDP FEIR previously analyzed the environmental consquences of 3.71 million gsf of new development between 1990 and 2005. The 2002 LRDP will evaluate the anticipated enrollment increase and the completion, by approximately 2010, of the previously analyzed development program, of which approximately 1.9 million gsf remains. In this regard, the LRDP will consider the potential environmental effects of the development of approximately 1.9 million gsf of space for academic, research, housing and other uses on campus. It is envisioned that the EIR will include a program level analysis for implementation of the 2002 LRDP: and a project level analysis for implementation of proposed NW Hsg Project element of the 2002 LRDP; and a project level analysis for implementation of the proposed NW Hsg Project element of the 2002 LRDP. Furthermore, the 2002 LRDP EIR will incorporate the 1990 LRDP mitigation measures as appropriate, including the limits on the campus overall parking inventory and vehicular trip generation. By so doing, the 2002 LRDP will extend 1990 LRDP from the original 2005 horizon year to 2010 by maintaining the overall development square footage, parking and trip generation limits of the plan while accommodating an increased level of enrollment and associated population growth.

# Document Details Report State Clearinghouse Data Base

Lead Agence	cy Contact			
Name	Tova Lelah			
Agency	University of California, Los Angeles			
Phone email	310-206-5482	Fax		
Address	1060 Verteran Avenue, CPB 3rd Floor			
City	Los Angeles	State CA	<b>Zip</b> 90095	
Project Loc	ation			
County	Los Angeles			
City Region	Los Angeles, City of			
Cross Streets Parcel No.	Westwood Plaza/Lee			
Township	Range	Section	Base	
Proximity to	<b>):</b>			
Highways	1-405			
Airports				
Railways				
Waterways				
Schools				
Land Use	Campus			
Project Issues	Aesthetic/Visual; Air Quality; Archaeolog	ic-Historic: Drainage/Ab	sorption; Flood Plain/Flooding;	
	Geologic/Seismic; Noise; Population/Housing Balance; Public Services; Recreation/Parks; Sewer			
	Capacity; Soil Erosion/Compaction/Grading; Solid Waste; Toxic/Hazardous; Traffic/Circulation;			
	Vegetation; Water Quality; Water Supply	•		
Reviewing	Resources Agency; Department of Cons	servation: Office of Histor	ic Preservation: Department of Parks	
Agencies				
	State Lands Commission; Caltrans, District 7; Department of Housing and Community Development;			
	California Highway Patrol; Regional Wat		-	
	the state of the s			

NOP Distribution List		County: LOS F	I HOLO SCH#	002091115
Resources Agency	Fish and Game	Colorado River Board Gerald R. Zimmerman	Dept. of Transportation 10 Chris Sayre	State Water Resources Con Board
Resources Agency Nadell Gayou	Dept. of Fish & Game Scott Flint	Agency (TRPA)	District 10 Dept. of Transportation 11	Greg Frantz Division of Water Quality
Dept. of Boating & Waterways Bill Curry	Environmental Services Division Dept. of Fish & Game 1	Lyn Barnett	Lou Salazar District 11	State Water Resouces Cont Board Mike Falkenstein
California Coastat Commission	Donald Koch Region 1	Office of Emergency Services John Rowden, Manager	Dept. of Transportation 12 Aileen Kennedy District 12	Division of Water Rights
Elizabeth A. Fuchs Dept. of Conservation	Dept. of Fish & Game 2 Banky Curtis Region 2	Delta Protection Commission	Business, Trans & Housing	Dept. of Toxic Substances CEQA Tracking Center
Roseanne Taylor Dept. of Forestry & Fire	Dept. of Fish & Game 3	Debby Eddy	Housing & Community Development	Regional Water Quality Con Board (RWQCB)
Protection Allen Robertson	Robert Floerke Region 3	Santa Monica Mountains Conservancy	Cathy Creswell Housing Policy Division	
Office of Historic Preservation Hans Kreutzberg	Dept. of Fish & Game 4 William Laudermilk Region 4	Paul Edelman	Caltrans - Division of Aeronautics Sandy Hesnard	Cathleen Hudson North Coast Region (1)
Dept of Parks & Recreation B. Noah Tilghman Environmental Stewardship	Dept. of Fish & Game 5 Don Chadwick Region 5, Habitat Conservation	Dept. of Transportation 1	California Highway Patrol Lt. Julie Page Office of Special Projects	BRWQCB 2 Environmental Document Coordinator San Francisco Bay Region (2
Section Reclamation Board	Program Dept. of Fish & Game 6	District 1 Dept. of Transportation 2	Dept. of Transportation Ron Heigeson	RWQCB 3
Pam Bruner	Gabrina Gatchel Region 6, Habitat Conservation	Vicki Roe Local, Development Review,	Caltrans - Planning Dept. of General Services	Central Coast Region (3)
S.F. Bay Conservation & Dev't. Comm. Steve McAdam	Program Dept. of Fish & Game 6 I/M	District 2 Dept. of Transportation 3	Robert Sleppy Environmental Services Section	Jonathan Bishop Los Angeles Region (4)
Dept. of Water Resources	Tammy Allen Region 6, Inyo/Mono, Habitat Conservation Program	Jeff Pulverman District 3	Air Resources Board Airport Projects	Central Valley Region (5)
Resources Agency Nadell Gayou	Dept. of Fish & Game M Tom Napoli	Jean Finney District 4	Jim Lerner Transportation Projects	RWQCB 5F     Central Valley Region (5)     Fresno Branch Office
lealth & Welfare	Marine Region	Dept. of Transportation 5 James Kilmer District 5	Kurt Karperos Industrial Projects Mike Tollstrup	RWQCB 5R Central Valley Region (5) Redding Branch Office
Health & Welfare Wayne Hubbard Dept. of Health/Drinking Water	California Energy Commission Environmental Office	Dept. of Transportation 6 Marc Birnbaum District 6	California Integrated Waste Management Board	Lahontan Region (6)
ood & Agriculture	Native American Heritage Comm. Debbie Treadway	Dept. of Transportation 7 Stephen J. Buswell	Sue O'Leary State Water Resources Control	Lahontan Region (6) Victorville Branch Office
Food & Agriculture Steve Shaffer	Public Utilities Commission Ken Lewis	District 7 Dept. of Transportation 8	<b>Board</b> Diane Edwards Division of Clean Water Programs	Colora do River Basin Region (
Dept. of Food and Agriculture	State Lands Commission Betty Silva	Mike Sim District 8	the state of the s	Santa Ana Region (8)
	Governor's Office of Planning & Research	Dept. of Transportation 9 Colleen O'Brien District 9		RWQCB 9 San Diego Region (9)

#### STATE OF CALIFORNIA BUSINESS, TRANSPORTATION AND HOUSING AGENCY

DEPARTMENT OF TRANSPORTATION DISTRICT 7, REGIONAL PLANNING IGR/CEQA BRANCH 120 SO. SPRING ST. LOS ANGELES, CA 90012 PHONE (213) 897-4429 FAX (213) 897-1337



Flex your power! Be energy efficient!

March 26, 2002

Tova Lelah, Assistant Director University of California Los Angeles Capital Programs, Environmental Planning 1060 Veteran Avenue Los Angeles, CA 90095-1365

> Re: 2002 LRDP and Northwest Housing Infill UCLA Project No. 948365 and 948380 Revised Notice of Preparation IGR/CEQA No. 020375/EK SCH No. 1989072618

Dear Ms. Lelah:

Thank you for continuing to include the California Department of Transportation (Caltrans) in the environmental review process for the proposed update of the UCLA Long Range Development Plan (LRDP). We have received a Revised Notice of Preparation (NOP) environmental document, for the extension of the LRDP horizon year from 2005 to 2010 and for the inclusion of approximately 550,000 gross square feet of building for the Northwest Housing Infill. As there was no new State Clearing House (SCH) number given with the NOP, we understand that this Infill will be part of the 1.9 million additional square feet allowed under the 1990 LRDP FEIR, using the SCH number above. Please advise us if that understanding is not entirely correct.

We notice, on pages 33-35 of the environmental checklist, that traffic impacts will be considered in the forthcoming EIR. For that EIR, we request the most recent possible conditions and behavioral information be considered. We have sent a letter dated July 11, 2001, to the above address, describing what we need from a traffic study. We would supply copies of that letter, if requested.

If you have any questions regarding this comment, please refer to IGR/CEQA No. 020375/EK and contact me at (213) 897 - 4429.

Sincerely,

J.O.

STEPHEN J. BUSWELL IGR/CEQA Program Manager, Transportation Planning Office



http://www.dfg.ca.gov 4949 Viewridge Avenue San Diego, CA 92123 (858) 467-4201





April 17, 2002

Ms. Tova Lelah University of Southern California, Los Angeles 1060 Veteran Avenue, CPB 3<sup>rd</sup> Floor Los Angeles, California 90095

Dear Ms. Lelah:

#### Notice of Preparation for UCLA 2002 Long Range Redevelopment Plan and Northwestern Housing Infill Project SCH # 2002031115

The Department of Fish and Game (Department) appreciates this opportunity to comment on the Notice of Preparation for the above-referenced project, relative to impacts to biological resources. The project proposes to update the campus' Long Range Development Plan and the construction of additional on-campus student housing in the Northwest Housing Infill Project located at the Los Angeles Campus.

To enable the Department to adequately review and comment on the proposed environmental document, we recommend the following information be evaluated and included in the document.

#### Impacts to Biological Resources

- <u>Nesting Birds</u> Project impacts on nesting native birds should be evaluated. The proposed
  project may result in removal and/or disturbance of vegetation, ground substrates and buildings
  and therefore has the potential to directly impact nesting native bird species.
  - a. Migratory nongame native bird species are protected by international treaty under the Federal Migratory Bird Treaty Act(MBTA) of 1918(50 C.F.R. Section 10.13). Sections 3503, 3503.5 and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests including raptors and other migratory nongame birds (as listed under the Federal MBTA).
  - b. Proposed project activities (including disturbances to native and non-native vegetation and man-made nesting substrates) should take place outside of the breeding bird season which generally runs from March 1- August 31 (as early as February 1 for raptors) to avoid take (including disturbances which would cause abandonment of active nests containing eggs and/or young). Take means to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture of kill (Fish and Game Code

Ms. Tova Lelah April 17, 2002 Page 2

C.

#### Section 86).

If the project activities cannot feasibly avoid the breeding bird season, the Department recommends that beginning thirty days prior to the disturbance of suitable nesting habitat the project proponent should arrange for weekly bird surveys to detect any protected native birds in the habitat to be removed and any other such habitat within 300 feet of the construction work area (within 500 feet for raptors). The surveys should be conducted by a qualified biologist with experience in conducting breeding bird surveys. The surveys should continue on a weekly basis with the last survey being conducted no more than 3 days prior to the initiation of clearance/construction work. If a protected native bird is found, the project proponent should delay all clearance/construction disturbance activities in suitable nesting habitat or within 300 feet of nesting habitat (within 500 feet for raptor nesting habitat) until August 31 or continue the surveys in order to locate any nests. If an active nest is located, cleaning and construction within 300 feet of the nest (within 500 feet for raptor nests) shall be postponed until the nest is vacated and juveniles have fledged and when there is no evidence of a second attempt at nesting. Limits of construction to avoid a nest should be established in the field with flagging and stakes or construction fencing. Construction personnel should be instructed on the sensitivity of the area. The project proponent should record the results of the recommended protective measures described above to document compliance with applicable State and Federal laws pertaining to the protection of native birds.

#### Impacts to Riparian Resources

- The Department opposes the elimination of watercourses and/or their canalization or conversion to subsurface drains. All wetlands and watercourses, whether intermittent or perennial, must be retained and provided with substantial setbacks which preserve the riparian and aquatic habitat values and maintain their value to on-site and off-site wildlife populations.
  - a. The Department requires a streambed agreement, pursuant to Section 1600 et seq. of the Fish and Game Code, with the applicant prior to any direct or indirect impact (including preliminary geotechnical activities) of a lake or streambed, bank or channel or associated riparian resources. The Department's issuance of a stream bed alteration agreement is considered a project that is subject to CEQA. To facilitate our issuance of the agreement, the Department as a responsible agency under CEQA may consider the local jurisdiction's (lead agency) document for the project. To minimize additional requirements by the Department under CEQA the document should fully identify the potential impacts to any lake, stream or riparian resources and provide adequate avoidance, mitigation, monitoring and reporting commitments for issuance of the agreement. Early consultation is recommended, since modification of the proposed project may be required to avoid or reduce impacts to fish and wildlife resources. Please contact Ms. Betty Courtney, Environmental Specialists III, at (661) 263-8306 to discuss this further.

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Ms. Tova Lelah April 17, 2002 Page 3

Thank you for this opportunity to provide comment. Questions regarding this letter and further coordination on these issues should be directed to Mr. Scott Harris, Associate Wildlife Biologist at (818) 360-8140.

Sincerely,

terni

Ms. Morgan Wehtje / Environmental Scientist IV

Ms. Morgan Wehtje Mr. Scott Harris Ms. Betty Courtney Department of Fish and Game

State Clearinghouse Sacramento

CC:

10

NATIVE AMERICAN HERITAGE COMMISSION 915 CAPITOL MALL, ROOM 364 SACRAMENTO, CA 95814 (916) 653-4082



April 11, 2002

Tova Lelah University of California, Los Angeles 1060 Verteran Avenue, CPB 3<sup>rd</sup> Floor Los Angeles, CA 90095

RE: SCH# 2002031115 – UCLA 2002 Long Range Development Plan and Northwest Housing Infill Project

Dear Ms. Lelah:

(916) 657-5390 - Fax

The Native American Heritage Commission has reviewed your letter regarding the above project. To adequately assess and mitigate project-related impacts on archaeological resources, the Commission recommends the following actions be required:

- Contact the appropriate Information Center for a record search. The record search will determine:
  - If a part or all of the area of project effect (APE) has been previously surveyed for cultural resources.
  - If any known cultural resources have already been recorded on or adjacent to the APE.
  - If the probability is low, moderate, or high that cultural resources are located in the APE.
- If a survey is required to determine whether previously unrecorded cultural resources are present.
   If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
  - The final report containing site forms, site significance, and mitigation measurers should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for pubic disclosure.
  - The final written report should be submitted within 3 months after work has been completed to the
    appropriate regional archaeological Information Center.
- Contact the Native American Heritage Commission for:
  - A Sacred Lands File Check.
  - A list of appropriate Native American Contacts for consultation concerning the project site and to assist in the mitigation measures.
- Lack of surface evidence of archeological resources does not preclude their subsurface existence.
  - Lead agencies should include in their mitigation plan provisions for the identification and evaluation
    of accidentally discovered archeological resources, per California Environmental Quality Act (CEQA)
    §15064.5 (f). In areas of identified archaeological sensitivity, a certified archaeologist and a
    culturally affiliated Native American, with knowledge in cultural resources, should monitor all
    ground-disturbing activities.
  - Lead agencies should include in their mitigation plan provisions for the disposition of recovered artifacts, in consultation with culturally affiliated Native Americans.
  - Lead agencies should include provisions for discovery of Native American human remains in their mitigation plan. Health and Safety Code §7050.5, CEQA §15064.5 (e), and Public Resources Code §5097.98 mandates the process to be followed in the event of an accidental discovery of any human remains in a location other than a dedicated cemetery.

Sincerely,

Ar word

Rob Wood Environmental Specialist III (916) 653-4040

CC: State Clearinghouse



April 4, 2002

Mr. Tova Lelah Assistant Director Campus and Environmental Planning UCLA Capital Programs 1060 Veteran Avenue Los Angeles, CA 90095-1365

Dear Mr. Lelah:

# Revised Notice of Preparation of a Draft Environmental Impact Report For 2002 Long Range Development Plan and Northwest Housing Infill <u>Project</u>

The South Coast Air Quality Management District (AQMD) appreciates the opportunity to comment on the above-mentioned document. The AQMD's comments are recommendations regarding the analysis of potential air quality impacts from the proposed project that should be included in the Draft Environmental Impact Report (EIR).

# Air Quality Analysis

The AQMD adopted its California Environmental Quality Act (CEQA) Air Quality Handbook in 1993 to assist other public agencies with the preparation of air quality analyses. The AQMD recommends that the Lead Agency use this Handbook as guidance when preparing its air quality analysis. Copies of the Handbook are available from the AQMD's Subscription Services Department by calling (909) 396-3720.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the project and all air pollutant sources related to the project. Air quality impacts from both construction and operations should be considered. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained

dust). Air quality impacts from indirect sources, that is, sources that generate or attract vehicular trips should be included in the evaluation. An analysis of all toxic air contaminant impacts due to the decommissioning or use of equipment potentially generating such air pollutants should also be included.

## Mitigation Measures

In the event that the project generates significant adverse air quality impacts, CEQA requires that all feasible mitigation measures be utilized during project construction and operation to minimize or eliminate significant adverse air quality impact. To assist the Lead Agency with identifying possible mitigation measures for the project, please refer to Chapter 11 of the AQMD CEQA Air Quality Handbook for sample air quality mitigation measures. Additionally, AQMD's Rule 403 construction-related emissions that should be considered for use as CEQA mitigation if not otherwise required. Pursuant to state CEQA Guidelines §15126.4(a)(1)(D), any impacts resulting from mitigation measures must also be discussed.

#### Data Sources

AQMD rules and relevant air quality reports data are available by calling the AQMD's Public Information Center at (909) 396-2039. Much of the information available through the Public Information Center is also available via the AQMD's World Wide Web Homepage (http://www.aqmd.gov).

The AQMD is willing to work with the Lead Agency to ensure that project-related emissions are accurately identified, categorized, and evaluated. Please call Dr. Charles Blankson, Transportation Specialist, CEQA Section, at (909) 396-3304 if you have any questions regarding this letter.

Sincerely

Steve Smith

Steve Smith Ph.D. Program Supervisor, CEQA Section Planning, Rule Development and Area Sources

SS:CB:li

SBC020328-03LI Control Number



# COUNTY OF LOS ANGELES REGISTRAR-RECORDER/COUNTY CLERK P.O. BOX 53592, LOS ANGELES, CALIFORNIA 90053-0592 / (562) 462-2177

MAR 2 7 2002

CONNY	8.	McCORMA	СК
REGISTRAR R	ECO	ROER/COUNTY	CLERK

Please resubmit enclosed document/s with necessary corre-	ctions for processing.
1. O Please submit notice in appropriate form, see attached for examp	le.
2. O Original signatures are required on both notice and certificate of	fee exemption when submitted.
3. A legible copy of notice/certificate of fee exemption is needed it	for processing.
4. Avotice is incomplete, incomplete portions are in highlight for yo	ur convenience.
5. There is a \$25.00 processing fee required.	
6 We do not accept checks dated more than 90 days from date of i	issuance.
7. D Please make check payable to the Los Angeles County Clerk.	
8. There is a \$ 1275.00/875.00 fee required to process your NOD resubmit the enclosed NOD along with an original signed cor Los Angeles County Clerk's Office in the amount of \$25.00.	as submitted. However, if the project was found to be de minimis, tificate of fee exemption and a check made payable to the
9. Please provide a actual copy of your notice for processing	
10. Check is unsigned.	「「本教職務会社」である。
11. The bulk of your notice has been held up at our office due to \$ 10.00 must be provided within 30 days from date of this no	a lack of postage. A prepaid postage envelope in the amount of tice, if you would like for your notice to be returned.
12. There is a filing fee in the amount of \$25.00 for each notice su	ibmitted.
13. Check was sent without documents.	
14. Other notices have been returned because only one check was i	issued.

15. O Other.

NOTE - Please include the following to ensure prompt processing & return:

A) original signatures on notices & certificate of fee exemptions • B) two copies of notice if applicant/agency would like to receive a stamped copy before the posting periods ends • C) two return addressed envelopes •

CONNY B. MCCORMACK Registrar-Recorder/County Clerk Un M Beputy

R.BENNETT

THE HULMET - WESTWOOD PHOPERTY OWNERS ASSN INC. 1081-99 Westwood Blvd., Suite 225 I Los Angeles, Ca. 90024 I Phone 824-0303 40 Years of Service to the Community

April 15, 2002

University of California, Los Angeles Campus Capital Planning 1060 Veteran Avenue B0x 951365 Los Angeles, Ca., 90095-1365

Project Title: 2002 Long Range Development Plan and Northwest Housing Infill Project

Project No.: 948365 and 948380

Attention Tova Lelah Sr., Environmental Planner Fax: 310-206-1510

These comments are supplemental to comments made by Association President Sandy Brown at the community input meeting on Saturday April 6, 2002.

Solutions to the following existing and expected traffic impacts from additional student growth should be identified and addressed in the Long Range environmental impact update:

1. The need to relocate the existing public transit bus terminal, in particular during early morning and after 10 PM, from Hilgard and Strathmore, to eliminate the sleep disturbance and nuisance created by idling buses. The bus terminal needs to be relocated to an on-site UCLA campus location, to eliminate the neighborhood nuisance caused by the idling buses, and to accommodate an expanded BRUIN Go program, to encourage more student diversion from private cars to public transportation.

2. The need for UCLA to develop an admissions program change to identify and accommodate the truly disable students, currently enrolled or who would be accommodated under an expanded student enrollment, who drive, with free on site campus parking. UCLA must develop a plan to identify the incoming disabled student to: (1) establish the need for special parking, (2) develop an on-campus program to accommodate such students.

The long term off campus abuse of disabled parking permits on residential streets adjacent to the campus must be addressed by UCLA. The problem is the direct consequence of the failure of UCLA to comply with state law to accommodate disabled students with appropriate and sufficient on campus parking.

Both UCLA and City of Los Angeles parking enforcement in recent years has been erratic, due inability to identify the truly disabled student, and due to lack of sufficient city personnel to routinely track the placards. Off site campus residential enforcement is too difficult, and placard abuse continues to deprive rusidents of their parking spaces on adjacent campus streets. These residents have paid to permit park on the public street in front of their homes and are unable to do so because of so many students parking in these spaces with disabled placards.

3. A timetable to meet all on campus parking needs by the year 2005 and based on the build-out sq. footage of the carlier adopted LRD.

4. The need to identify and establish a ratio of campus open space to buildable space, to establish a required open space sq. footage requirement to be maintained for the future.

Yours truly

Tom Paterson Office Manager Holmby-Westwood Property Owners Association



# April 9th, 2002

TOVA LELAH Assistant Director Campus and Environmental Planning UCLA Capital Programs 1060 Veteran Ave. La 90095-1365

## **Dear Ms Lelah**

I own a property on Strathmore Dr., the first house down from the Bus Terminal at the Hilgard/Strathmore junction. I am aware that your EIR meeting on Saturday the 6 th of April and wish to add my own comments on this subject. I am hereby requesting that you include an extensive analysis of bus activity at our neighborhood in your EIR.

There are three sections of your draft report where the iussue of the increase in bus rides needs to be included. These are Section 3 : Air quality, Section 11 : Noise/ groundborne vibration and Section 15 : Transportation/traffic.

Air quality. Your draft proposes to measure emission of air pollutants resulting from an on-campus development and to characterize existing air quality in the vicinity of the campus. I request that this study is extended to the area of the HILGARD Ave and Strathmore bus terminal, where the amount of fumes and air pollution has become intolerable. Air pollution in the area surrounding the bus terminal should also be measured and included in the EIR

**Noise.** Although we live far from the development, the increased bus traffic will increase noise and ground vibration in our area. Noise increase due to increase in **bus** traffic in residential zones surrounding the whole campus should be included in the EIR.

**Traffic.** UCLA has an agreement with LA City to monitor number of trips and maintain it at a certain level. This is why once a year the UCLA CORDON COUNT is made. But in this count has not included increase in bus trips over the last 4-5 years or in the future, as a consequence of expansion in Campus activity. I request that increases in bus rides into residential neighborhoods around campus be included in the and mitigation measures be considered in this report. As a first step, I wish to second Mrs. Gray's request that a real operating structure be formed between UCLA and bus companies and city officials.

We, the UCLA neighbors near the Hilgard bus station are already suffering all the listed impact factors, pollution, noise, ground vibration, bus traffic increase. All with subsequent increase in accidents and crime on our residential area this side of campus. And this impact has been imposed on us without any El study or report, just through gradual increase of bus rides into our area. We learned recently that this terminal was so designed in 1930, and since then, the number of bus rides has been increased manyfold. This has lead to the present intolerable arrangements in terms of idling, layovers, u-turns, traffic offences and many others which have made our everyday life a misery. We can not take the current level of traffic, let alone an increase coming from the increased student body the state is asking UCLA to admit. These students will need to take buses into UCLA and not into our residential area.

I request that a serious initiative is taken to relocating all UCLA buses to another terminal, and keep it out of residential neighborhoods. UCLA has offered in the past and again recently the use of LOT 32, a part of Campus, as an alternative bus station. This location is ideal since it is not a residential area and is also closer to the projected new developments.

I also wish to request to be included in your list of concerned homeowners, and include me in the list of individuals that would like a copy of the EIR when drafted.

Thank you very much for your attention Sincerely yours,

Dr. Edward P. Caleman Emeritus Professor, Engineering, UCLA Los Angeles, CA 90024 Bio) 474-1283

Dr Edward Coleman, Emeritus Professor 10556 Strathmore Dr. Los Angeles, Ca 90024 (310) 474-1283

#### **RESPONSE TO EIR MEETING/APRIL 6, 2002**

Subject: RESPONSE TO EIR MEETING/APRIL 6, 2002

Pauline DiPego 10555 Strathmore Drive Los Angeles, California 90024

(310) 587-5226

April 12, 2002

Campus and Environmental Planning UCLA Capital Programs 1060 Veteran Ave. Los Angeles, CA 90095

Attention: Tova Lelah

Re: REVISED NOTICE OF PREPARATION DRAFT EIR/MARCH 20, 2002 SUBJECT: RELOCATION OF BUS STOP AWAY FROM HILGARD/STRATHMORE DRIVE: EAST SIDE OF UCLA

#### Dear Tova Lelah:

There is urgent need to examine the impact of bus traffic at the Hilgard/Strathmore bus stop EAST of campus as part of the environment report that evaluates enrollment growth at UCLA. This location has been overlooked in your report though the volume of buses currently overwhelms my residential neighborhood. Approximately 600 buses per day from the MTA, BBB, or Culver line collectively arrive and depart this area at two (2) minute intervals creating traffic glut, pollution, earth vibration, and din. The situation has reached critical mass. With the addition of 4000 new UCLA students, substantive changes are necessary.

I propose the following solutions, as suggested by the HOLMBY-WESTWOOD HOMEOWNERS' ASSOCIATION:

-- UCLA NEEDS TO **PROVIDE ON SITE CAMPUS PARKING** TO ACCOMODATE FUTURE STUDENT ENROLLMENT

--UCLA NEEDS TO <u>PROVIDE ON SITE CAMPUS PARKING</u> FOR DISABLED STUDENTS TO ELIMINATE THE ABUSE OF DISABLED PLACARDS BY STUDENTS ON STREETS ADJACENT TO UCLA

--UCLA NEEDS TO DEVELOP "LOT 32" AND ON SITE CAMPUS LOCATIONS AS BUS HOLDING AREAS. IN ORDER TO RELOCATE BUSES AWAY FROM THE STRATHMORE/HILGARD LOCATION

The following three entries are excerpts from a letter to you from NORA ROZENGURT, my neighbor on Strathmore Drive:

# Section 3 (pages 13 & 14). Air quality (REVISED NOTICE/DRAFT EIR/MARCH 20, 2002)

I request that this study is not limited to the vicinity of the new development but extended to the area of the HILGARD Ave and Strathmore bus terminal, where the amount of fumes and air pollution originating from the

#### **RESPONSE TO EIR MEETING/APRIL 6, 2002**

uncontrolled proliferation of bus rides over the last 3-5 years has created a microclimate of air unfit for breathing. I insist that **BUSES OUTSIDE the CAMPUS** be included in the scope of all measurements and studies, and considered part of the environmental impact of the development given the fact that the increase student numbers will be coupled by traffic mitigation measures aimed to divert car trips into bus trips.

#### Section 11 (pages 28 and 29) Noise and groundborne vibration/ noise.

Again, the document only talks about substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project.

I request that these parameters have to be applied not only to the vicinity of the project but also to secondar noise increase due to increase in **bus** traffic in residential zones surrounding the whole campus.

#### Section 15 (pages 33&34) Transportation/traffic

This refers to increase in traffic which is substantial in relation to existing traffic load. This is where Docume #2 (2001 UCLA TRIP CAP) is of relevance. UCLA has an agreement with LA City to monitor number of trij and maintain it at a certain level. This is why they do this census once a year. But in this process, UCLA or monitors trips INTO and OUT OF the campus, not AROUND it, which are obviously our concern. As UCLA maintains or reduces the number of cars that enter and leave the campus, it does so at the resider neighborhoods expense, by encouraging the use of bus transport, which does not enter campus, therefore not counted as UCLA-related traffic growth, but increases the number of bus rides which drive along our horr I will therefore request that the increase in public transport (buses) traffic should be included in your EIR and consequently, possible mitigation measures be considered in this report. (end of Rozengurt excerpt)

Westwood is one of the few urban areas in the US adjacent to a major university that is not blighted. By considering and implementing the previous suggestions, namely relocating the bus holding area away from Hilgard/Strathmore, and providing campus parking for students, California, Los Angeles, and our growing neighbor, UCLA, will serve to keep Westwood vital and sound.

Submitted for the public record. Respectfully,

Pauline DiPego Twenty-five year resident of Strathmore Drive

## Zacuto, Curtis

From:	
Sent:	
To:	
Subject	

Cutter.LA@aol.com Monday, April 08, 2002 4:04 PM EnvPln **EIR for UCLA** 

To Whom It may Concern:

I recently attended a meeting of UCLA, Coucilman Weiss' office, Santa Monica Big Blue Bus, MTA, and Culver City Bus to address concerns over the Bus Terminal at Strathmore and Hilgard.

This small and completely over-loaded terminal is a terrible source of traffic, air pollution, and noise pollution for this neighborhood. The daily average is already more than a bus every two minutes, as posted on the

Bus Companies own web sites. Accidents are frequent in this location and many residents are afraid to walk or drive on Hilgard.

I am writing to request that any EIR concerning UCLA include an

extensive analysis of public transportation and UCLA. It is our feeling that the present Hilgard terminal must be relocated to a place that better

accomodates the buses, their drivers, and the students. Somewhere within

the campus has been proposed, as has lot 32 near Wilshire. The present location is completely over-taxed and any increase due to a larger student

body at UCLA would spell disaster for our neighborhood.

Please help us solve this problem now as it will surely impact the university in the near future when enrolment increases.

Sincerely yours

Michael Haight Strathmore resident

10544 Strathmore Sire Los Angeles, CA. 90024.

#### Kaufman, Lynn

From:	Lelah, Tova
Sent:	Tuesday, April 23, 2002 8:53 AM
To:	Kaufman, Lynn
Subject:	FW: Stipulated Agreement Between the University and the V

WHPOA

Here is the e-mail from Alvin to add to the scoping comments.

-----Original Message-----From: Brueggemann, Diana (Govt & Cmnty Rel) Sent: Thursday, April 18, 2002 12:00 PM To: Alvin134@cs.com Cc: Magnuson, Carole; Lelah, Tova; Morabito, Sam J. (Bus & Fin Serv); Foraker, David Michael (Bus & Fin Serv-Hsg-Admin); Ericka Lozano; Blackman, Pete; Santon, Sue; Parker, Keith S. (Govt & Cmnty Rel) Subject: RE: Stipulated Agreement Between the University and the WHPOA

Alvin: Thanks for your inquiry. I am very concerned that there always be excellent communication with Westwood Hills, especially now that there is a proposal that involves construction on the Northwest Campus. That is why we had a meeting as early as possible with your association leadership several months ago. It was set as soon as we had the most preliminary of designs for the Northwest Campus Housing Project so that we could all look at it as a frame of reference for discussion.

There have actually been two meetings in the past fiscal year with the Westwood Hills Association's past and current presidents whose constituency will be most affected by development in the benign use area. One was August 16, 2001 with Harriet Miller, Barbara Dobkin and Carole Magnuson who represented your association's concerns. Sam Morabito, Marc Fisher and Mike Foraker, the project manager, Stephanie Tollenaire, and Tova Lelah attended. Councilmember Miscikowski's chief field deputy also came. We had quite a long meeting and then visited the project site.

On March 6, 2002 we had our project architect fly down from San Francisco specifically to meet for about an hour at Barbara Dobkin's home with Bruce Dobkin, Carole, two representatives from Councilman Weiss' office and our UCLA staff mentioned above to experience the site from your neighborhood. We then walked the entire site around the proposed project for another hour.

We plan to have more meetings as the plans for the recreation building and housing are better articulated. The work is being done with your neighborhood's concerns in mind.

I am copying Carole Magnuson, the current president of your association, to let her know that you would like to be included in future meetings.

-----Original Message-----

From: Alvin134@cs.com [mailto:Alvin134@cs.com] Sent: Thursday, April 18, 2002 9:19 AM To: Diana Brueggemann; jerbrown@ucla.edu; incal@earthlink.net Cc: acarnesale@ucla.edu; tlelah@ucla.edu; Margot Baron; RSD1@aol.com; Cheryl Peterson; Susan Polep; LASpiceCatering@aol.com; DEBGENDEL@aol.com; Martin Kaplan; chmagnuson; info@yournorthvillage.org Subject: Stipulated Agreement Between the University and the WHPOA

Please be reminded that the location chosen by Capital Programs for the

1

new

"Infill Housing" project is within the area covered by the Stipulated Agreement between The Westwood Hills Property Owners Association and the

Regents of the University of California in Los Angeles County Superior Court

case no. C180 760. The University's failure to engage in a meaningful dialogue with the Association regarding the buildings and recreational facilities being planned for this area is a violation of the Agreement and of

the many promises made over the years by the University about meeting with

the Association to discuss the community's concerns.

In your Memorandum of April 30, 1999, regarding our April 15, 1999 meeting

about UCLA's proposal for a recreational building and other facilities in the

Agreement area, you stated that the plans had been put on indefinite hold and

that you would contact me, and that we would have another meeting on this

issue if the status of the project changed. The status has changed; however,

the promised meeting has not been held.

Sterile, bureaucratic presentations, such as the recent EIR Scoping Meeting

on "Infill Housing," do not meet the "community relations" arrangements promised to the Association not only in the Agreement, but also in the many

meetings with the Chancellor and others at the University, and in your Memorandum referred to above.

Please let me know ASAP when a meeting between the Association and the University can be held to discuss UCLA's plans for the Agreement area.

April 9th, 2002

TOVA LELAH Campus and Environmental Planning 1060 Veteran Ave. La 90095-/365

#### Dear Ms Lelah

I own a property on Strathmore Dr. 6 houses down from the Bus Terminal at the Hilgard/Strathmore junction. I am aware that your EIR meeting on Saturday the 6 th of April included comments from Toni Gray, a homeowner on Strathmore Dr, and were documented in the minutes. Her comments regarded the community concern of increased bus activity on Hilgard. I am writing to add my own comments on this subject.

I have carefully read the documents entitled "REVISED NOTICE OF PREPARATION DRAFT ENVIRONMENTAL IMPACT REPORT" and "2001 UCLA TRIP CAP" which were handed out in that meeting. And I am writing to request you to include an extensive analysis of bus activity at this location in your EIR.

Specifically in the "REVISED NOTICE OF PREPARATION DRAFT ENVIRONMENTAL IMPACT REPORT" I wish to refer to the following sections:

## Section 3 (pages 13 & 14). Air quality

Your draft refers to "Emission of air pollutants from **mobile** and stationary sources resulting from an on-campus development" It is proposed to characterize existing air quality in the vicinity of the campus.

I request that this study is not limited to the vicinity of the new development but extended to the area of the HILGARD Ave and Strathmore bus terminal, where the amount of fumes and air pollution originating from the uncontrolled proliferation of bus rides over the last 3-5 years has created a microclimate of air unfit for breathing. I insist that **BUSES OUTSIDE the CAMPUS** be included in the scope of all measurements and studies, and considered part of the environmental impact of the development given the fact that the increase of student numbers will be coupled by traffic mitigation measures aimed to divert car trips into bus trips.

Section 11 (pages 28 and 29) Noise and groundborne vibration/ noise. Again, the document only talks about "substantial permanent increase in ambient noise levels *in the project vicinity* above levels existing without the project". I request that these parameters have to be applied not only to the "vicinity of the project" but also to secondary noise increase due to increase in **bus** traffic in residential zones surrounding the whole campus.

# Section 15 (pages 33&34) Transportation/traffic

This refers to "increase in traffic which is substantial in relation to existing traffic load". This is where Document #2 ("2001 UCLA TRIP CAP") is of relevance. UCLA has an agreement with LA City to monitor number of trips and maintain it at a certain level. This is why they do this "census" once a year. But in this process, UCLA only monitors trips INTO and OUT OF the campus, not AROUND it, which are obviously our concern.

As UCLA maintains or reduces the number of cars that enter and leave the campus, it does so at the residential neighborhood's expense, by encouraging the use of bus transport, which **does not enter campus**, therefore is not counted as UCLA-related traffic growth, but increases the number of bus rides which drive along our homes.

I will therefore request that the increase in public transport (buses) traffic should be included in your EIR and consequently, possible mitigation measures be considered in this report. As a first step, I wish to second Mrs. Gray's request that a real operating structure be formed between UCLA and bus companies and city officials.

We, the UCLA neighbors near the Hilgard bus station are already suffering all the listed impact factors, pollution, noise, ground vibration, bus traffic increase. All with subsequent increase in accidents and crime on our residential area this side of campus. And this impact has been imposed on us without any El study or report, just through gradual increase of bus rides into our area. We learned recently that this terminal was so designed in 1930, and since then, the number of bus rides has been increased manyfold. This has lead to the present intolerable arrangements in terms of idling, layovers, u-turns, traffic offences and many others which have made our everyday life a misery. We can not take the current level of traffic, let alone an increase coming from the increased student body the state is asking UCLA to admit. These students will need to take buses **into UCLA** and not into our residential area.

I request that a serious initiative is taken to relocating all UCLA buses to another terminal, and keep it out of residential neighborhoods. UCLA has offered in the past and again recently the use of LOT 32, a part of Campus, as an alternative bus station. This location is ideal since it is not a residential area and is also closer to the projected new developments.

I also wish to request to be included in your list of concerned homeowners, and include me in the list of individuals that would like a copy of the EIR when drafted.

1 Sugar Sugar

Thank you very much for your attention Sincerely yours,

Nora Rozengurt 10530 Strathmore Drive Los Angeles, Ca 90024 (310) 470-3698 nrozengurt@mednet.ucla.edu

I IIII IIV.

501 Santa Monica Blvd., ste 403, Santa Monica 90401 310-793-1776 FAX 310-899-6741

# **Paul Verdon**

Fax

To: Tova Lelah - Assistant I		va Lelah – Assistant Director From	From:			
Fax:	ax: 206-1510		Pages:			
Phone				Date:	4/10/2002	
Re:	LRDP-UCLA			CC:		
🗆 Urg	jent	For Review	🗆 Please Co	omment	Please Reply	Please Recycle
	-					

#### • Comments:

#### Dear Tova,

I am sending you copies of signatures from homeowners located on the East side of the UCLA Campus. The signatures represent homeowner that have been having a problem with the CURRENT bus traffic located in our neighborhood at Strathmore and Hilgard, and our recommendation to the existing bus companies to make changes. The buses serve the students at UCLA. This problem has been growing for some time and has now gotten out of control.

Please make sure that the EIR looks at the impact of noise and traffic in the surrounding areas of UCLA. We are already having problems and can not handle any more traffic. We are actually getting the existing bus traffic to consider relocating so that we have peace in our neighborhood, as well as safety.

I also have faxed to you a letter I emailed on Monday; I want to make sure you got this and inform the EIR agency to look at our neighborhood.

Sincerety On 61 Verdon

Strathmore Resident

. .....

#### Dear Sir, Madame,

I am aware that your EIR meeting on Saturday the 4th of April included comments from Toni Gray, a homeowner on Strathmore, and were documented in the minutes. Her comments regarded the community concern of increased bus and auto activity on Hilgard.

I am also a home owner on Strathmore four houses down from the Bus Terminal at Hilgard. We are experiencing a tremendous volume of buses at the Hilgard Strathmore Terminal. We are currently round tabling ideas to eliminate the problems we are having from an overtaxed and poorly planned bus location with UCLA and 3 bus companies. Hilgard is a curving roadway that goes north and south and has been a problem for buses to maneuver up and down for ages. We constantly have accidents involving buses and autos. There are over 600 buses a day at this small terminal that can't make the complete u-turn and stick out into oncoming traffic. The buses arrive every 2-3 minutes on average. We are currently trying to have this terminal relocated; so any kind of increased activity at this location would be disastrous to the homeowners. We have already lost the quality of life in our homes from noise and diesel pollution. This location is dangerous for pedestrians, and the value of our real estate is going to decrease.

I am writing to you today to ask you to include an extensive analysis of bus activity at this location in your EIR. We can not take the current level of traffic, let alone an increase coming from the increased student body the state is asking UCLA to admit. These students will need to take buses into UCLA due to mitigating the on going problems of parking and LA grid lock. Please study the relocating of all UCLA buses to another terminal, and keep it out of residential neighborhoods. Also, please put me on your list of concerned homeowners, and include me in the list of individuals that would like a copy of the EIR when drafted.

Sincerely.

Paul Verdon 10544 Strathmore Los Angeles, Ca 90024 Email-pverdon@firstregional.com

#### March 28, 2002

To: Big Blue Bus, MTA and Culver City Bus

From: Affected homeowners of noise and diesel pollution

Re: Short term solutions and long term solutions:

In order to bring quality of life and peace to our homes, inside and out, and to prevent excessive amount of diesel exhaust blown into our homes, we are requesting the below changes be made immediately on the short-term solutions and within a reasonable time the long term solution.

....

#### SHORT-TERM SOLUTIONS

- Weekend and holiday schedule change; i.e. relocate bus stop, layovers, and staging to a commercial area in Westwood Village; such as Le Conte, Westwood Blvd, etc. (minimal passenger activity occurs on weekends and holidays other than abusive layovers)
- Monday through Friday Relocate morning bus stops, layovers, staging etc from Hilgard and Strathmore before 7am.
- Monday through Friday Relocate evening bus stops, layovers, staging etc from Hilgard and Strathmore after 10pm.
- Eliminate U-Turns.

#### LONG-TERM SOLUTIONS

- Relocation of staging and layovers 100% of the time to a new "Bus Terminal" to be identified in conjunction with UCLA and all bus companies.
- Hilgard and Strathmore to remain a bus stop only 5 days a week Monday through Friday from 7am to 10 pm.
- Eliminate U-Turns.

HOMEOWNERS SIGNATURE ADDRESS noke

HOMEOWNERS SIGNATURE ADDRESS 10536 Stralemon Drily Elucral & Calenne LOS Andos CA GODA Paulyne Dercoo 10530 Strethmore Dr. Cos Augeles, Ca 90024 ann STRATHMORE DR 10538 Strathmore Dr. 10550 STCHTHMORE 10550 Strathmore Dr. 110,00 055 Frathore Aller 10541 STRATHMORE M. 10 HARL AIDHT 10544 STRATHMIKE

#### FRA NU.

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HOMEOWNERS SIGNATURE ADDRESS 10526 Arethnow dru 10526 trannore Or 1 542

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#### HOMEOWNERS SIGNATURE

#### ADDRESS

10538 Strathmore

FRA INU.

1. 01/00

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HOMEOWNERS SIGNATURE Thmore 1053 600

THA INU.

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- Hilgard and Strathmore to remain a bus stop only 5 days a week Monday through Friday from 7am to 10 pm.
- Eliminate U-Turns.

ADDRESS HOMEOWNERS SIGNATURE 90024 10525 Strattangers DON

## Zacuto, Curtis

From: Paul Verdon [PVerdon@firstregional.com]

Sent: Monday, April 08, 2002 3:35 PM

To: EnvPin

Subject: FW: EIR for UCLA expansion of student

-----Original Message-----

From: Paul Verdon Sent: Monday, April 08, 2002 11:54 AM

To: 'envping@capnet.ucla.edu'

Cc: Zev Yaroslavsky (zev@bos.co.la.ca.us); Aviva Monosson (amonosson@hotmail.com); Brad and Teddy (BradTJoy@aol.com); Debra Ansel (debraansell@yahoo.com); Diana Brueggemann (DBRUEGGE@support.ucla.edu); Jack Weiss (jweiss@council.lacity.org); lisa Trifilette (ltrifile@council.lacity.org); Marcia Pine (CallieOB@aol.com); Michael Haight (cutterla@aol.com); Pauline DiPego (samarg@lafn.org); Stephanie Negriff (stephanie-negriff@ci.santa-monica.ca.us); Stephen Cunningham (Steve.Cunningham@culvercity.org); Tom Horne (HorneT@mta.net); Toni Gray (gtoni2882@aol.com) **Subject:** EIR for UCLA expansion of student body

Dear Sir, Madame,

I am aware that your EIR meeting on Saturday the 4th of April included comments from Toni Gray, a homeowner on Strathmore, and were documented in the minutes. Her comments regarded the community concern of increased bus and auto activity on Hilgard.

I am also a home owner on Strathmore four houses down from the Bus Terminal at Hilgard. We are experiencing a tremendous volume of buses at the Hilgard Strathmore Terminal. We are currently round tabling ideas to eliminate the problems we are having from an overtaxed and poorly planned bus location with UCLA and 3 bus companies. Hilgard is a curving roadway that goes north and south and has been a problem for buses to maneuver up and down for ages. We constantly have accidents involving buses and autos. There are over 600 buses a day at this small terminal that can't make the complete u-turn and stick out into oncoming traffic. The buses arrive every 2-3 minutes on average. We are currently trying to have this terminal relocated; so any kind of increased activity at this location would be disastrous to the homeowners. We have already lost the quality of life in our homes from noise and diesel pollution. This location is dangerous for pedestrians, and the value of our real estate is going to decrease.

I am writing to you today to ask you to include an extensive analysis of bus activity at this location in your EIR. We can not take the current level of traffic, let alone an increase coming from the increased student body the state is asking UCLA to admit. These students will need to take buses into UCLA due to mitigating the on going problems of parking and LA grid lock. Please study the relocating of all UCLA buses to another terminal, and keep it out of residential neighborhoods. Also, please put me on your list of concerned homeowners, and include me in the list of individuals that would like a copy of the EIR when drafted.

Sincerely,

Paul Verdon 10544 Strathmore Los Angeles, Ca 90024 Email-pverdon@firstregional.com

Name	Affiliation	june 12, 2001 NOP	March 20, 2002 NOP <sup>1</sup>	April 6, 2002 Scoping Meeting <sup>2</sup>
	State Agencies			
Scott Morgan	State of California, Governor's Office of Planning and Research	~	~	
Stephen J. Buswell	State of California, Department of Transportation	~	~	
Morgan Wehtje	California Department of Fish and Game	~	1	
Rob Wood State of California, Native American Heritage Commission			1	
	Regional Agencies			
Steve Smith, Ph.D.	South Coast Air Quality Management District		1	
Jeffrey M. Smith, AICP	Southern California Association of Governments	~		
	Local Agencies			L
Regina Bennett	County of Los Angeles, Registrar-Recorder/County Clerk		1	
Esther Tam	City of Los Angeles, Department of Transportation	1		
	Homeowner's Groups/Organizations			
Tom Paterson	Holmby-Westwood Property Owners Association		1	
Alvin Milder	UCLA Watch		1	
Travis Longcore, Ph.D.	The Urban Wildlands Group, Inc.	~		
	Individuals			
Dr. Edward P. Coleman	Strathmore Resident		1	
Pauline DiPego	Strathmore Resident		~	
Michael Haight	Strathmore Resident	-	~	
Nora Rozengurt	Strathmore Resident		1	
Paul R. Verdon	Strathmore Resident		✓ (2)	
Pat Patterson	Strathmore Resident			✓(W)
Dr./Mrs. Ira Monosson	Strathmore Resident			✓ (W)
Pat Vasquez	GRAAC			√(W)
Elizabeth J. Brainard	Brentwood Glen Association			√(W)
Deborah Nussbaum	Westwood Hills Property Owners Association			✓ (W/V)
Steven Twining	Roscomere Valley and Hillside Homeowners Federation			~(V)
Sandy Brown	Holmby–Westwood Property Owners Association			√(V)
Carole Magnuson	Westwood Hills Property Owners Association			✓ (V)
Toni Gray	Strathmore Resident			√(V)

# List of Agencies, Organizations, and Individuals Commenting at the Scoping Meeting or in Response to the NOP(S)

2. (W) indicates written comments were received at or subsequent to the Scoping Meeting, while (V) indicates oral comments were received at the

Scoping Meeting
Source: EIP Associates 2002

Appendix 3 Public Scoping Meeting Comments

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	Page
1	E.I.R. SCOPING MEETING
2	FOR THE LONG RANGE DEVELOPMENT PLAN AND NORTHWEST
3	HOUSING INFILL PROJECT
4	* * *
5	DIANA BRUEGGEMANN
6	
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8	REPORTER'S TRANSCRIPT OF PROCEEDINGS
9	en an
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12	SATURDAY, APRIL 6, 2002
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17	
18	
19	
20	
21	
22	NEWLANDER & NEWLANDER
23	1138 WILSHIRE BOULEVARD, SUITE 200
24	LOS ANGELES, CALIFORNIA 90017
25	TELEPHONE: (213) 482-1522

MS. BRUEGGEMANN: This is the part of the program where we're actually taking down -- we have a court reporter here. Thank you -- she is taking down everything that you say as a formal comment that will be considered as we write this environmental document that will come out later this summer.

Page 2

Remember, this part of the meeting, we don't answer anybody's questions. This is not a dialogue. This is just now your comments. The questions you pose will be dealt with very formally in the E.I.R. So those of you who want to speak, I presume you filled out a card?

Let me just go over once again the E.I.R. process and the schedule. The process of determining the focus and content of the E.I.R. is known as scoping. To formally begin the process, U.C.L.A. filed a Notice of Preparation or N.O.P. with the State Office of Planning and Research on March 20th, 2002.

18 The notice was sent to several agencies, associations and interested individuals to provide 19 20 information and request comments on the scope of the Draft E.I.R. The notice was accompanied by the 21 Initial Study which provided information on the scope of 22 an analysis proposed for the Draft E.I.R., for both the 23 update of the L.R.D.P. and the Northwest Housing 24 25 Project.

Several of you may have received a copy of the 1 N.O.P. and the Initial Study. If you'd like to obtain a 2 copy of that today, let us know. These documents are 3 also available online. And for those that are still 4 here, I got to tell you, we have a new capital programs 5 website. It's terrific. It has everything on it; all 6 the projects, lots of information. And we'll do a 7 formal presentation of it in our next community meeting. 8

9 Let me give you that website: It is
10 www.capital.ucla.edu. That is www.capital.ucla.edu.
11 Capital with an A-L. Let's see, I think we already said
12 that.

This meeting is also part of the scoping process to 13 assist U.C.L.A. in determining the range of issues that 14 should be considered in the E.I.R. As previously 15 16 mentioned, these comments can be submitted in writing by using one of the comment cards provided, by using the 17 computer in the back of the room until we're done today 18 or by composing your own comment letter and sending, 19 faxing or e-mailing it in. Or the last option, I have 20 21 two people who would like to provide verbal comments 22 today.

As part of the N.O.P. review process, all comments on the scope of the E.I.R. must be submitted by April 22nd, 2002. The environmental review process is

Page 3

illustrated by a flow chart that we provided that flow chart to you on a handout. The flow chart shows the opportunities for public comment during the scoping period as well as for the Draft E.I.R. The one thing we did not include, and let me repeat, is our e-mail address for sending your comment: envpln@capnet.ucla.edu.

Page 4

8 It's anticipated that the Draft E.I.R. could be 9 released for public review later this summer or earlier 10 fall. That would be followed by a 45-day review period 11 and there will be a formal hearing to hear your 12 comments. Consideration of the L.R.D.P. and Northwest 13 Housing Project and certification of the E.I.R. by the 14 Regents is targeted for late winter.

15 I have two cards. Are there any others? Feel free 16 just to bring them to me as you fill them out.

17 The first speakers are Carole Magnusen. Carole, you 18 can come up and say your comments.

19 THE PUBLIC: I'm assuming that the areas that are 20 normally covered in an E.I.R. will be covered in this 21 E.I.R., so my comments are not meant to exclude any 22 other areas that are not mentioned.

I also want to take note of the fact that there was printed material provided for discussion here today, but copies were not made available to those who participated, which is inconsistent with general
 University procedure. I have seldom been in a meeting
 where I didn't get a packet of slides that I was going
 to be seeing.

5 I frequently wondered why that was, and this 6 morning I looked and I learned. From where I was 7 sitting, the numbers were frequently indecipherable, and 8 since we were talking about numbers, that created a 9 hardship for those that wanted to participate in the 10 meeting. That being said, it was a very good meeting 11 other than that.

12 The E.I.R. should examine the compliance of the 13 projects that are proposed for the northwest campus zone 14 with the stipulated agreement that exists with the 15 Westwood Hills Property Owners Association. The 16 Master Plan -- and I say it using a Master Plan map -- I 17 assume that is very preliminary since I was under the 18 impression that the projects have not been fully sited.

19 The project shows a recreational components and 20 facilities waste handling components. The facilities 21 waste storage shed should be fully examined in the 22 E.I.R. to include, but not limited to, what types of 23 materials will be stored in the shed, what activities 24 will take place in and around the shed, how the shed 25 will be accessed, how materials will be trucked in and

Page 5

out, whether or not new access roads will be required in
 order for the campus to use that facility shed, what
 kind of parking will be provided at the shed.

Page 6

Will there be new construction and development of asphalted surface at the shed? What will be the noise impacts? How will the shed be secured and what sort of lighting will be provided? What is likely to be -- what are the hours of operation and what's likely to be the noise impacts that carry across the street into the neighborhoods?

11 On the subject of traffic. The E.I.R.s for 12 University projects typically don't really adequately 13 examine impact of traffic on the neighborhoods that are 14 most adjacent to the campus. Particularly the 15 Westwood Hills Neighborhood and the 16 Holmby-Westwood Neighborhood.

And the Westwood Hills Neighborhood, as I said 17 earlier, lies north and south of Montana Avenue, which 18 is a street that carries, by one recent trip count, in 19 excess of 13,000 trips a day which -- and frequently is 20 congested and backs up at rush hours, which results in a 21 22 great deal of cut-through traffic on the smaller residential streets, such as Bentley, Cashmere, 23 Greenfield, Cashmere Terrace, Denslow. 24 I would like -- the E.I.R. should examine the 25

impact of an increase in traffic that may be attributed 1 to the increase of students on the local streets. And 2 where -- in addition, they should examine the local --3 there is a tendency to deal in E.I.R. with regional 4 traffic impacts, the E.I.R. should also examine the 5 localized impacts that arise from the addition of 6 students, by which I mean the weekend, daytime increase 7 and the impact of daytime, off-peak hour traffic on the 8 immediate neighborhood. 9

Page 7

The E.I.R. should develop mitigations for the impact on the nearby neighborhoods of the increase of the University traffic. Thank you very much.

MS. BRUEGGEMANN: Thank you, Carole. The nextspeaker is Steve Twining.

15

THE PUBLIC: I'm next?

MS. BRUEGGEMANN: If you want somebody else to go. THE PUB LIC: Yes. I'm Steve Twining, president of the Roscomare Valley Association. We're neighbors to the north. And also chairman of the Hillside Federation which represents 200,000 homeowners from Los Feliz to the Palisades to Echo Park to Woodland Hills.

22 Our number one concern is traffic, traffic, 23 traffic. We wonder what kinds of mitigations U.C.L.A. 24 is offering the various neighborhoods; perhaps off-duty 25 policeman to help monitor the speed and volume of 1 traffic; perhaps manned speed trailers. Speed trailers
2 were provided by the Fox Corporation in their E.I.R. to
3 residents of Motor Avenue and south areas of below
4 20th Century Fox.

Page 8

5 Perhaps crossing guards to help schools such as 6 ours, the Roscomare school which is a public school and 7 has terrible traffic problems.

8 We'd like to see the rapid transit position of the 9 University of California Los Angeles, particularly the 10 traffic as it concerns not only students, but staff and 11 teaching staff. We think U.C.L.A., which claims to be 12 environmentally sensitive, should be exceptionally 13 sensitive to the use of rapid transit and getting people 14 out of automobiles.

We are concerned about the status that the parking 15 revenues are used to only -- or primarily provide for 16 increased parking facilities, which just causes more 17 traffic in the general area. We are concerned about the 18 use of the 1990 Long Range Plan as a crutch, even though 19 the circumstances, such as the construction of 20 additional office buildings in the general area, two 21 proposed and planned in Century City, high-rise 22 facilities, and there are two proposed on 23 Wilshire Boulevard west of the 405. 24

We are concerned about the increased use of the

1 summer program providing substantially increased 2 traffic. We believe that there should be balloon tests 3 on the buildings so that residents to the north can 4 determine whether or not these buildings will impact 5 their view.

6 Basically, we recognize the excellence of the 7 University of California Los Angeles, but we feel that 8 they have failed to be concerned with the overall 9 traffic situation in the West Los Angeles area.

10MS. BRUEGGEMANN: Thank you, Steve. The next11speaker is Sandy Brown followed by Deborah Nussbaum.

12 THE PUBLIC: I'm going to be very brief. Do I have 13 to talk --I'm going to be very brief because I know the 14 other neighborhoods have picked up on some of the main 15 issues.

16 The one thing that I want ask for up front is instead of a 45-day period, is to extend that period. 17 We have a big project coming into Westwood Village as 18 you well know, and the summertime is not a good time to 19 hand out something and giving all of the neighborhoods a 20 45-day response period. So I would ask to extend that 21 22 at least to 60 days, which will take us into a time when there aren't a lot of holidays and people are back in 23 24 town. I assume it's coming out in the summertime which 25 is not -- never a good time. Thank you.

MS. BRUEGGEMANN: Deborah Nussbaum, followed by
 Tony Gray.

Page 10

3 THE PUBLIC: Hi, I'm Deborah Nussbaum. I live in 4 the Westwood Hills area and I'm concerned over the 5 increased through traffic that the additional housing on 6 the U.C.L.A. campus will generate. There's -- the 7 increased housing may not increase daily trips, trip counts that are counted for U.C.L.A., but it will 8 increase the general community traffic when these 9 individuals are now traveling out of the Westwood campus 10 into internships and part-time jobs, which often go with 11 12 being students on a campus.

13 And I'm concerned about this increase in this 14 after-hour traffic because it doesn't seem that there's 15 really a peak hour traffic. It's all day. There is no 16 letdown anytime of hours when you're looking at these 17 counts. And I'd like that to be considered as to what 18 it is going to do to the local area.

Also with the changes that are to be made on the 405 Freeway and how the traffic flow is going to be from the freeway to the campus, people going back and forth. It's a big issue, especially for the people who are west of U.C.L.A. and sandwiched in between the 405 and U.C.L.A. I think that's really important that we look at that.

And I'm also concerned about, with the building 1 that's going to take place on the U.C.L.A. campus, the 2 dirt-hauling trucks now stage themselves along 3 Sepulveda Boulevard. And I find that they are a real 4 danger with them getting on the 405 Freeway and getting 5 They often use the Waterford on-ramp and the 6 off. Wilshire exit to make a guick turnaround or making 7 U-turns on Sepulveda, which they're not supposed to. 8

9 There is going to be additional building going on, 10 and I think that that component be looked at, that it's 11 probably the only logical place to put them, but when 12 two or three of them rush out to hop on the freeway, 13 they tie up the other traffic and makes it dangerous for 14 all of us. And I'm traffic. Thank you.

MS. BRUEGGEMANN: Very good. Tony Gray. Tony is our last speaker. If there is anyone that wants to come back and speak anew, just let me know.

18 THE PUBLIC: I'm Tony Gray. I'm a Strathmore 19 resident. I represent a small group of about 20 20 homeowners which is a subset of the Westwood Hills 21 Homeowners Group Association who live near the 22 Hillgard Strathmore bus stop.

I'd like to address the bus stop that was designed in the 30's and had little change since the 30's and how that works with campus in 2010.

Page 11

1 At this point, we believe that the bus stop is over 2 capacity. We are currently experiencing at least 3 600 bus trips from Big Blue Bus a day, in and out of the 4 terminal, not to mention the M.T.A. north, south. So we 5 are looking at least 1,000 trips up and down, and near 6 our homes.

Page 12

And we're wondering what mitigation can be done 7 with the bus company to eliminate the noise and the 8 diesel pollution that we are experiencing. And I know 9 10 the experience even at the faculty center. And the 11 (inaudible) factor starting at 5:15 in the morning up 12 until midnight, we have the bus companies that are 13 staging their buses with no riders at many hours during the day, using it as convenient layover for their lunch 14 stops, their breaks in between. 15

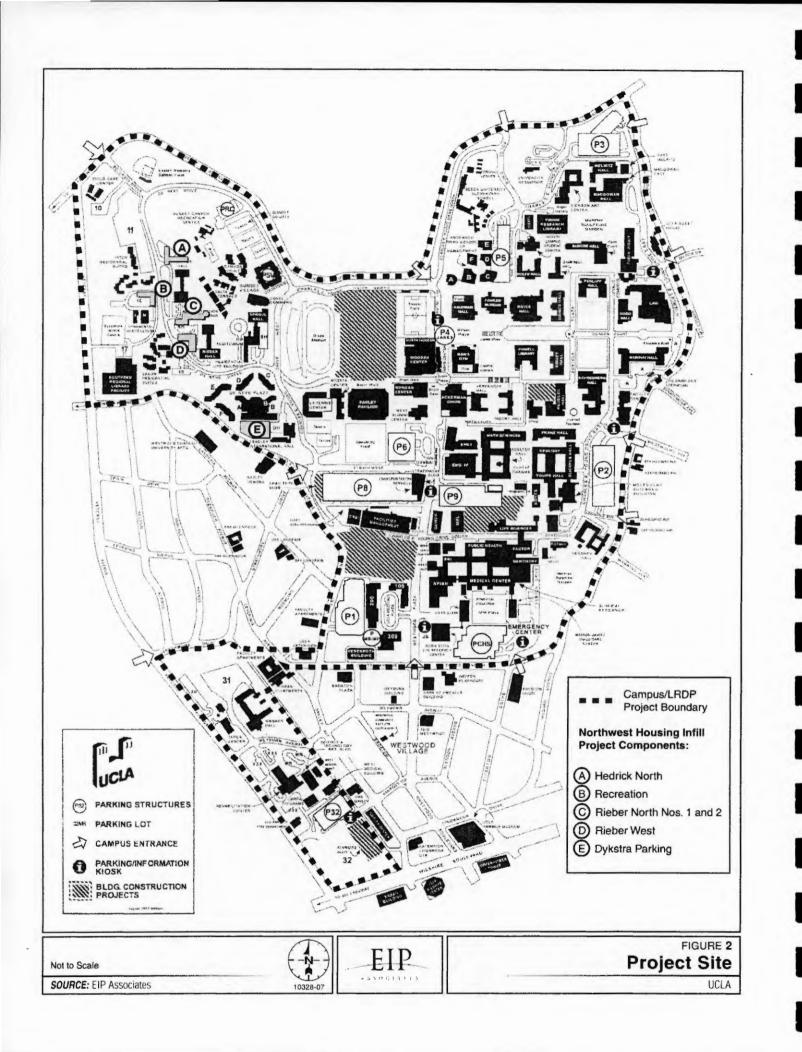
16 And we're wondering if there is any way that, 17 through the E.I.R. process, that the noise can be 18 studied that we're experiencing, the pollution that 19 we're experiencing.

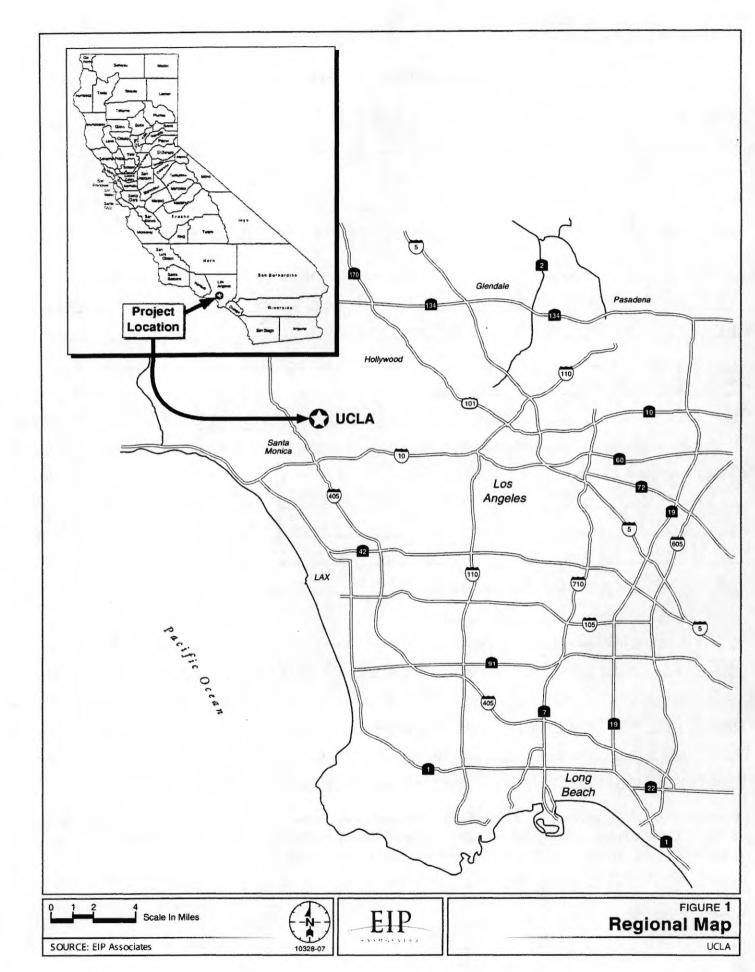
20 And thirdly, is there some sort of a mechanism for 21 U.C.L.A. and the bus companies, a structure where they 22 can do better future planning with the bus companies to 23 provide ridership in and to the campus and help --24 actually help the campus as well. But I think -- do 25 think a '30s terminal operated in the way now is not

	Page 13
1	effective in 2010 from the plans that I see. Thank you.
2	MS. BRUEGGEMANN: Thank you, Tony. Anyone else
3	would like to speak?
4	With that, this closes the official formal hearing.
5	And is there anything else I need to say?
6	
7	(The proceedings concluded at 12:18 p.m.)
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	Page 14
1	REPORTER'S CERTIFICATE
2	
	STATE OF CALIFORNIA )
3	) 55
	COUNTY OF ORANGE )
4	
5	I, Linda D. White, C.S.R. 12009, Certified
6	Shorthand Reporter for the State of California, do
7	hereby certify;
8	That said proceedings was taken before me at the
9	time and place therein stated and was thereafter
10	transcribed into print under my direction and
11	supervision, and I hereby certify the foregoing
12	proceedings is a full, true and correct transcript of my
13	shorthand notes so taken.
14	I further certify that I am not of counsel nor
15	attorney for either of the parties hereto or in any way
16	interested in the event of this case and that I am not
17	related to either of the parties hereto.
18	WITNESS my hand this 8th day of April, 2002.
19	
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	LINDA D. WHITE, CSR No. 12009
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	Page 15
1	CERTIFIED COPY CERTIFICATE
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5	I, Linda D. White, Certified Shorthand Reporter,
6	No. 12009, hereby certify that the attached transcript
7	is a copy of the original transcript taken before me on
8	the 6th day of April, 2002, as thereon stated.
9	I declare under penalty of perjury that the
10	foregoing is true and correct.
11	
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13	Executed at Anaheim, California, this 8th day of
14	April, 2002.
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18	LINDA D. WHITE, C.S.R. NO. 12009
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UCLA LONG RANGE DEVELOPMENT PLAN AND NORTHWEST HOUSING PROJECT EIR

SCOPING MEETING COMMENT FORM NGURT 7F Name: 6 Affiliation: g 30 5 mo 0 Address: a 0 State: Zip: City: UCLA 8 10 hrozeneur med Phone/E-mail: 1. What environmental impacts do you think should be addressed in the Environmental Impact Report (EIR)? guality; Section K Noise and ground bornevibration, Section 3-Au /traffic. RANSPORT hoise three Environmental Impacts addressed e Ø BUS TRips around increased 1 campus 2. Are there mitigation measures or project alternatives that you would like to suggest to reduce potential environmental impacts? request ic That cam hoigh bors Increased US Tm 9 rected roci 0

3. Are there any additional issues/concerns about the project that you would like to bring to UCLA's attention? increased massively over Rides hav E 20 came to live hear Campus. us companie uee no Organism or commetee coordinating their common needs Hai - We presently be created comu ere should ,000 more Neighbors Turneo era has

Please provide this questionnaire to a UCLA staff person before you leave today, or fold, seal, and mail by April 22, 2002 to UCLA Capital Programs, Campus and Environmental Planning, 1060 Veteran Avenue, Los Angeles, CA 90095-1365. Insert additional sheets if needed. All comments provided become public information.

Apri! 6, 2002

UCLA LONG RANGE DEVELOPMENT PLAN AND NORTHWEST HOUSING PROJECT EIR

	S	COPING MEETIN	NG COMMEN	VT FORM		
Name:	PAUL	R. VERD	ON.		•	
Affiliation:	NEIG	HBOR				
		STRATHM	NORE D	ir		
City	LA		State:	C.A	Zip: 90021	
Phone/E-mail:	310-7	93-1776	PRERI	ON CFir	STREGIONAL C	om
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April 6, 2002

UCLA LONG RANGE DEVELOPMENT PLAN AND NORTHWEST HOUSING PROJECT EIR

SCOPING MEETING	G COMMEN	T FORM		
Name: Por L. Patters	on			
Affiliation: Address: 10525 Strathmore				
City: LA	State:	CA	Zip:	90024
Phone/E-mail:				
1. What environmental impacts do you think should be The Mattice around ca Car & and				
2. Are there mitigation measures or project alternativ environmental impacts? Ruch m bus island	•			
3. Are there any additional issues/concerns about the pro-	oject that you wo	uld like to b	ring to UC	CLA's attention?
		·····		

April 6, 2002

Please provide this questionnaire to a UCLA staff person before you leave today, or fold, seal, and mail by April 22, 2002 to UCLA Capital Programs, Campus and Environmental Planning, 1060 Veteran Avenue, Los Angeles, CA 90095-1365. Insert additional sheets if needed. All comments provided become public information. UCLA LONG RANGE DEVELOPMENT PLAN AND NORTHWEST HOUSING PROJECT EIR

SCOPING MEETING COMMENT FORM The Name: GY 54 Affiliation: om Address: 10526 oren Zip: 90024 City: State: Phone/E-mail: A MONDSSON mai What environmental impacts do you think should be addressed in the Environmental Impact Report (EIR)? ( one every 2 minutes drive down buses ,00 that conc OWD 9 on 30 ne 6 d AC handle 11 amoun of 0 SovoBety & residential noighborhoods DUS 05 uation 1 2. Are there mitigation measures or project alternatives that you would like to suggest to reduce potential environmental impacts? to what relocated Bus enning nord IIC LA Universite ontrain "cap lud NOWY wood a Weyhun on must be dorad a DO man DN buildings w parking areas 0a donts a DO 3. Are there any additional issues/concerns about the project that you would like to bring to UCLA's attention? dil SANDICE 01 ADIA 0 ADA 0 0 ANG who uul. m Dar ON Bhood Hells these DY. DSI DA DOK res. loand A AA Out a on campus along w, Cars place Please provide this questionnaire to a UCLA staff person before you leave today, or fold, seal, and mail by April 22, 2002 to UCLA Capital Programs, Campus and Environmental Planning, 1060 Veteran Avenue, Los Angeles, CA 90095-1365.

Insert additional sheets if needed. All comments provided become public information.

### UCLA LRDP AND NORTHWEST HOUSING PROTOT SCOPING MEETING COMMENT FORM

Name: Patricia Vasquez

(EIR)?

Affiliation: Brentwood Resident, GRAAC Address: 11948 Gorham Ave. No.2 City: Los Angeles State: CA Zip: 90049 Phone E-mail: trish.vasquez@sprintpcs.com

- 1. What environmental impacts do you think should be addressed in the Environmental Impact Report
- 2. Are there mitigation measures or project alternatives that you would like to suggest to reduce potential environmental impacts?
- 3. Are there any additional issues/concerns about the project that you would like to bring to UCLA's attention?

In Rory's presentation, I felt that he presented the university's committment to keeping the addition of new bodies down a bit simplistically. Based on the fact that the LRDP is being dramatically revised, I'm not convinced that we will be able to stay under projected addition of 4,000 eligible students. Although it could be a case of we'll see when we get there, I think it would serve the presentation well to stengthen the points that support the university's commitment to keeping the body count down.

Please save this file by following these steps:
1) Select <u>F</u>ile, click SAVE AS
2) Type the document name, use your last name and first initial e.g., SmithA.doc
3) Select the pull down menu and choose "3 ½ floppy a:\ drive"
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5) Close the file

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April 6, 2002

#### UCLA LONG RANGE DEVELOPMENT PLAN AND NORTHWEST HOUSING PROJECT EIR

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### SCOPING MEETING COMMENT FORM

Nussbaum Name: Debbie Affiliation: WHYOA Neighbor Terrace Address: 516 Cashmere Zip: 90049 State: Angel City: Las Phone/E-mail: 310) 476 - 4342 ogum 30 Parthlink . Net LJUSS 1. What environmental impacts do you think should be addressed in the Environmental Impact Report (EIR)? of transient Construction is beyond a Ten years effect. What environmental 15 the ects construction. sustained vears coordinating construction working with trans n changing some 405 Freeway and widening the be trans 2. Are there mitigation measures or project alternatives that you would like to suggest to reduce potential environmental impacts? 3. Are there any additional issues/concerns about the project that you would like to bring to UCLA's attention? between APyburn Oro posec red roadway Alley teran vale wi vnic recluce and e Campus. to 0 Seand on 110 teran 2GC Blucks\_ Nestwood Weyburn Ave. is conprised of UCLA traffic exclusively almost Please provide this questionnaire to a UCLA staff person before you leave today, or fold, seal, and mail by April 22, 2002 to UCLA Capital Programs, Campus and Environmental Planning, 1060 Veteran Avenue, Los Angeles, CA 90095-1365. Insert additional sbeets if needed. All comments provided become public information. reduced from 2 lanes each 15 this stipet · direction direction each that to only one existing traffic will impact residentia streets in the Neighborhood,

April 6, 2002 UCLA LONG RANGE DEVELOPMENT PLAN AND NORTHWEST HOUSING PROJECT EIR SCOPING MEETING COMMENT FORM Name: Eliz Brainard in application Affiliation: Address: 11420 State: C.A. City dias angel Zip: 90049 liz baa Qase. com Phone/E-mail: 1. What environmental impacts do you think should be addressed in the Environmental Impact Report (EIR)? The major impact is increase in pro attendant increase in vehicles. Kill) cours re only a small increase. 60. in parking spaces vcertain Bring more Walter, no dubo bove th 0 car leave 2. Are there mitigation measures or project alternatives that you would like to suggest to reduce potential environmental impacts? much more needer to be done to reduce Trall a) a critical isque on The west side & mair bring about an alteration of The HOS Freewaw whe Xupplumenting fares. M Catastrophic unst Ill fares on public Transportation is a must. 3. Are there any additional issues/concerns about the project that you would like to bring to UCLA's attention? endercement No struti rulla Duch conduct im na during the construction au natic reld unait

Please provide this questionnaire to a UCLA staff person before you leave today, or fold, seal, and mail by April 22, 2002 to UCLA Capital Programs, Campus and Environmental Planning, 1060 Veteran Avenue, Los Angeles, CA 90095-1365. Insert additional sheets if needed. All comments provided become public information.

## **Community Information and EIR Scoping Meeting**

UCLA Long Range Development Plan and Northwest Student Housing Infill Project

> April, 6, 2002 8:30 a.m. – 12:30 p.m. Morgan Center, Press Room

## Agenda

8:30 a.m 9:00 a.m.	Welcome / Purpose of the Meeting
9:00 a.m 11:00 a.m.	<ul> <li>Topical Presentations / Questions and Answers</li> <li>Enrollment Growth</li> <li>Land Use</li> <li>Student Housing</li> <li>Traffic &amp; Parking</li> </ul>
11:00 a.m 11:15 a.m.	BREAK
11:15 a.m. – 12:30 p.m.	Public Comment on Scope of the EIR (recorded)
12:30 p.m.	Adjourn

Appendix 4 Traffic Technical Report

# UCLA LONG RANGE DEVELOPMENT PLAN TRANSPORTATION SYSTEMS ANALYSIS

Prepared for:

## UNIVERSITY OF CALIFORNIA, LOS ANGELES

Prepared by:

Crain & Associates 2007 Sawtelle Boulevard, Suite 4 Los Angeles, California 90025 (310) 473-6508

October, 2002

#### EXECUTIVE SUMMARY

The University of California, Los Angeles (UCLA) proposes to update the campus Long Range Development Plan (LRDP) to address the program and space implications of a planned increase in student enrollment in both regular session and summer session (through the academic year 2010/2011). The proposed 2002 LRDP would reallocate the development capacity remaining in the 1990 LRDP (of approximately 1.7 million gross square feet) among the eight campus land use zones to accommodate space needs (associated with current programs and anticipated enrollment growth), including a concurrently-proposed increase in on-campus housing for approximately 2,000 undergraduate students.

To assess the potential traffic impacts of the 2002 LRDP, this study provides an evaluation of existing and future traffic conditions at 58 study intersections and seven freeway segments on the San Diego (I-405) and Santa Monica (I-10) Freeways. Future traffic conditions were modeled to account for projected regional growth, anticipated highway and street improvements, traffic associated with previously-approved projects, implementation of previously-adopted mitigation measures, and continued implementation of the campus Transportation Demand Management programs.

The on-campus population growth associated with the 2002 LRDP includes an increase of approximately 1,895 faculty/staff, 2,135 students (of which approximately 1,675 would be on-campus resident students), and 1,446 other individuals (e.g., visitors, patients, etc.) during the regular session between 2001 - 2 and 2010 - 11. In addition, between 2000 and 2010 summer enrollment would increase by approximately 6,550 students (of which approximately 3,772 would be on campus on an average weekday). The on-campus population growth would result in increased demand for on-campus parking. This traffic study shows that with development of the concurrently-proposed

i

Northwest Campus student housing, future campus demand can be accommodated within the cap of 25,169 on-campus spaces established in the 1990 LRDP. The oncampus population growth and anticipated parking utilization on-campus would result in an increase in vehicle trip generation, from the current (Fall 2001) 121,799 to approximately 131,150 average daily trips (by the year 2011), which is below the vehicle trip cap of 139,500 trips established in the 1990 LRDP.

The trip generation associated with implementation of the 2002 LRDP would increase traffic volumes on the local street network and the adjacent freeways. During the regular session, five intersections would be significantly impacted by project-related traffic prior to physical roadway improvements. During the summer, when overall traffic volumes would be lower than during the regular session, 25 intersections would be significantly impacted by project-related traffic, prior to physical roadway improvements. Impacts from the 2002 LRDP on the seven study segments of the San Diego and Santa Monica Freeways would be less than significant during both the regular and summer session.

With the implementation of feasible mitigation measures, the impacts of the 2002 LRDP would remain significant and unavoidable at four of the five intersections for the regular session and 12 of the 25 intersections for the summer session.

The document also analyzes the likely impacts of UCLA population growth with the 2002 LRDP upon area transit. It concludes that due to on-going and proposed housing programs combined with parking expansions, there will be slightly fewer commuters without parking than there are under existing (Fall 2001) conditions. Therefore, no increase in transit usage to and from the Campus is anticipated to result from implementation of the 2002 LRDP.

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#### INTRODUCTION

In response to State projections, University of California, Los Angeles (UCLA) is considering the program and space implications of an enrollment increase by the year 2010/2011. Because this increase would exceed the enrollment projections in the 1990 Long Range Development Plan (1990 LRDP), UCLA proposes to update the existing LRDP and prepare an Environmental Impact Report (EIR), as required by Section 21080.09 of the California Environmental Quality Act (CEQA).

The UCLA 2002 LRDP proposes to accommodate anticipated program growth associated with increased enrollment within the remaining development capacity in the 1990 LRDP (of approximately 1.7 million gross square feet) and to maintain the current limits on parking spaces and vehicle trips established in the 1990 LRDP. It is anticipated that the enrollment growth would be accommodated in both the regular session (or academic year) and summer session.

Crain & Associates was retained to conduct a transportation systems analysis to assess the potential impacts of the 2002 LRDP on campus parking demand, vehicle trip generation, alternative transportation modes, and traffic on the local street and regional highway network. This report details existing conditions, projects future traffic conditions (without implementation of the 2002 LRDP) and analyzes the potential impacts of implementation of the 2002 LRDP, including increases in both regular and summer session enrollment.

This study utilizes impact assessment methodologies that are consistent with previous UCLA studies and City of Los Angeles policies with respect to traffic analyses to provide a conservative but accurate assessment of the potential impacts of the 2002 LRDP.

#### PROJECT DESCRIPTION

UCLA proposes to update the Long Range Development Plan to meet existing program needs, address the academic, administrative and support space requirements associated with an increase in enrollment and an extension of the time horizon, or "build-out" year, of the LRDP from 2005/06 to the 2010/11 academic year. The 2002 LRDP proposes to accommodate future program growth within the remaining development capacity in the 1990 LRDP while maintaining the current limits on parking spaces and vehicle trips established in the 1990 LRDP.

The 1990 LRDP proposed the development of 3.71 million square feet of new development between 1990 and 2005, of which approximately 1.7 million gross square feet of development capacity remains. The 2002 LRDP would reallocate this remaining development capacity among the eight campus land use zones to accommodate anticipated future program needs (associated with current programs and anticipated enrollment growth), in support of the campus mission of instruction, research and public service.

The 2002 LRDP includes population estimates, which project that the overall enrollment growth would be met by a combination of increases in both the regular session, as well as summer session. The 2002 LRDP projects an increase in regular session enrollment between 2001 - 02 and 2010 – 11 of approximately 2,135 students (of which approximately 1,761 would be on campus on an average weekday), and an increase in summer session enrollment of approximately 6,550 students (of which approximately 3,772 would be on campus on an average weekday). Projected changes in campus population for the regular session are shown in Table 1(a), while changes in campus population during the summer session are shown in Table 1(b).

#### Table 1(a)

#### Estimated Changes in Campus Population with 2002 LRDP Regular Session

	itogaia.		
Population Group	Current (2001-02)	Future (2010-11) With 2002 LRDP	Change
	Headcount (Three	-Quarter Average)	
Students	34,310	36,445	2,135
Faculty/Staff	20,045	21,940	1,895
	Average Week	day Population	
Students	28,306	30,067	1,761
Faculty/Staff	17,774	19,439	1,665
Other Individuals	10,558	12,035	1,446
Total	56,668	61,541	4,873

Source: UCLA Capital Programs, April 2002

#### Table 1(b)

#### Estimated Changes in Campus Population with 2002 LRDP Summer Session (2010)

Population Group	Current (2000) <sup>1</sup>	Future With 2002 LRDP	Change
	Headcount (Sumi	mer Session Total)	
Students	10,010	16,560	6,550
Faculty/Staff	17,705	19,746	2,041
	Average Weel	day Population	
Students	8,979	12,750	3,772
Faculty/Staff	14,706	16,333	1,626
Other Individuals	10,441	12,035	1,594
Total	34,127	41,119	6,992

increase in summer session enrollment that occurred in the summer of 2001 in response to a Statesubsidized program designed to increase summer enrollment.

Source: UCLA Capital Programs, April 2002

To estimate current and future parking demand and trip generation for faculty, staff and students during the regular session, three-quarter average headcount is used in this study. In addition to these population groups, quarterly (or annual) parking permits are also provided to certain other groups, including emeriti faculty, affiliated physicians, vendors, construction workers, and other University guests. Current parking demand and trip generation for this group is based on the actual number of permits. Daily parking permits are also sold, generally to campus visitors, however any individual may purchase a daily permit (on a space available basis), therefore some daily permits may also be purchased by students, faculty or staff (who don't already have a permit). The current parking demand and trip generation for Quarterly Guest/Emeritus permits and Daily Permit Sales. Future demand for Quarterly Guest/Emeritus permits and Daily Permit

Concurrent with the LRDP, the campus proposes to develop the Northwest Campus Housing Infill project. This project would provide housing for approximately 2,000 undergraduate students to accommodate anticipated enrollment growth, respond to the housing commitment goals of the Student Housing Master Plan 2000-2010, and reduce the number of triple-room occupancies. With the Northwest Campus Housing Infill project, the net effect of the LRDP would be an increase of 2,135 regular session students, of which approximately 1,675 would reside on campus, and 460 would be new commuter students to campus.

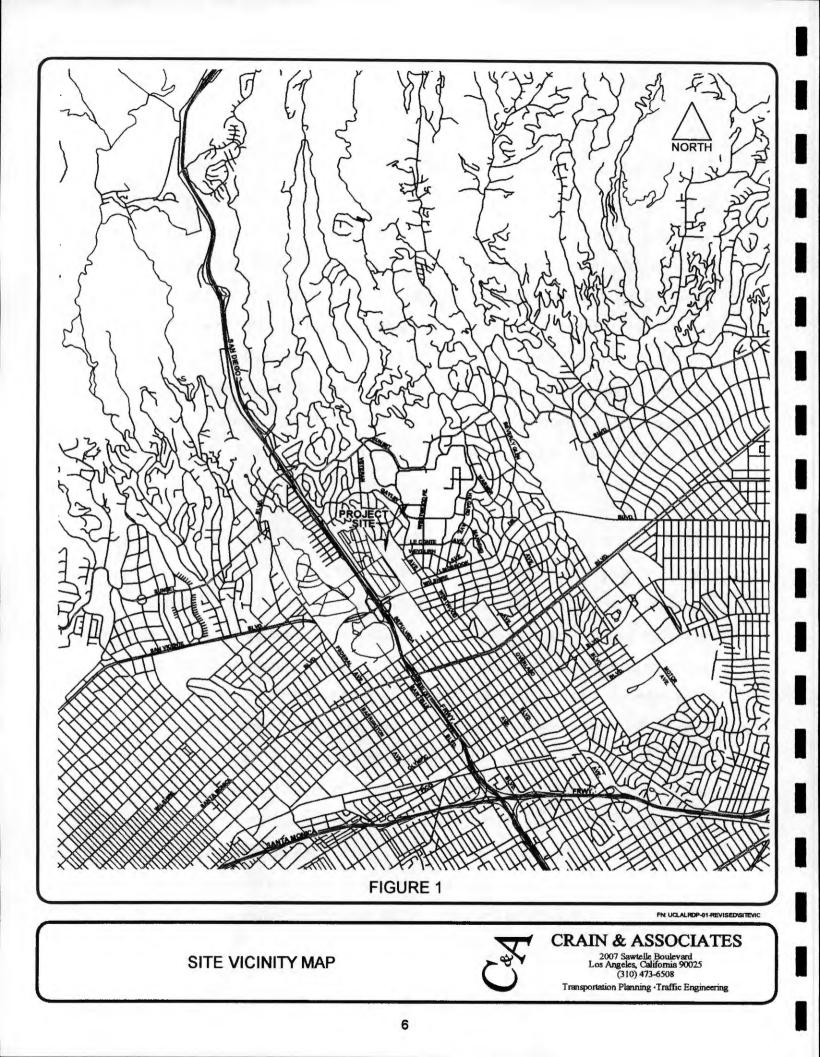
#### ENVIRONMENTAL SETTING

#### DESCRIPTION OF HIGHWAY AND STREET NETWORK

The site of this study is the area around the UCLA Campus, which is located within the community of Westwood, in the City of Los Angeles, as shown in Figure 1, Site Vicinity Map. The land uses in the Westwood area are a mixture of retail, residential, restaurant, educational, cultural and commercial office uses. Access to and from the area is provided by a well-developed surface street network and by the nearby San Diego (Interstate 405) Freeway and the Santa Monica (Interstate 10) Freeway. A substantial portion of the surface street traffic in the area is "through" traffic, with origins or destinations in the areas of Westwood, Century City, Beverly Hills and/or Santa Monica. The surface streets and freeways in the project area are described below.

#### Freeways

One of the most important traffic-carrying facilities in the project area is the San Diego Freeway (I-405). This freeway provides regional access throughout and beyond the western portion of Los Angeles County. In the vicinity of the campus, I-405 is a north/south freeway that provides five mixed-flow lanes in each direction. A southbound high-occupancy vehicle (HOV) lane was recently installed (in the Sepulveda pass) north of the campus and a northbound HOV lane has been approved for construction. To the north, the San Diego Freeway merges with the Golden State Freeway (I-5) at Mission Hills. To the south, I-405 passes through Orange County to the City of Irvine where it merges with I-5; the I-5 then extends to San Diego County. The San Diego Freeway also provides direct access to other freeways, including an interchange with the Santa Monica Freeway (I-10) approximately 2.5 miles south of the Campus and with the Ventura Freeway (US Highway 101) approximately seven miles northwest of the Campus. Access to and from the surface street network immediately



surrounding the project site is provided by northbound and southbound freeway on- and off-ramps located at Wilshire Boulevard, Santa Monica Boulevard and at Sunset Boulevard, and a northbound off-ramp and southbound on-ramp located near Montana Avenue.

The Santa Monica Freeway (I-10) is another important transportation facility located approximately 2.5 miles south of the Campus. This freeway is an east/west facility that provides regional access for Los Angeles County, extending east to San Bernardino and beyond. To the west, I-10 transitions into the Pacific Coast Highway (PCH) in the City of Santa Monica; PCH then extends to the northwest. The Santa Monica Freeway typically provides four through lanes per direction in the vicinity of the campus.

#### Streets and Highways

Wilshire Boulevard begins in downtown Los Angeles and traverses westerly through the cities of Los Angeles, Beverly Hills and Santa Monica, terminating near the Pacific Ocean. This arterial is among the most prominent streets in the West Los Angeles area, providing direct access to the commercial establishments along this route, as well as serving as a major thoroughfare between Westside and Downtown Los Angeles. Wilshire Boulevard is also one of the highest capacity surface street routes between the San Diego Freeway and the Century City/Beverly Hills areas. At the San Diego Freeway, Wilshire Boulevard provides full access to both the northbound and southbound freeway facilities.

Wilshire Boulevard is designated as a major highway throughout its length. West of Glendon Avenue and east of the San Diego Freeway, Wilshire Boulevard provides four westbound and four eastbound through lanes, with left-turn channelization also

provided (including double left-turn lanes eastbound at many locations). Within this section, Wilshire Boulevard is generally 105 feet wide.

- <u>Westwood Boulevard</u> is also designated as a major highway facility that runs northsouth in the vicinity of the campus. Westwood Boulevard provides two to three through lanes in each direction and left-turn channelization. Westwood Boulevard terminates at Le Conte Avenue where it becomes Westwood Plaza, an internal Campus roadway that provides two to three travel lanes in each direction. This roadway also extends southeasterly past the Santa Monica Freeway where it becomes National Place.
- Sunset Boulevard is an east/west oriented major highway throughout the Westside providing a continuous facility from Downtown Los Angeles, through West Hollywood and Beverly Hills, and continuing through Pacific Palisades where it terminates at the Pacific Coast Highway. Sunset Boulevard also provides the northernmost east/west thoroughfare south of the Santa Monica Mountains through the campus vicinity, and is therefore heavily used by both local and commuter traffic. In the study area, Sunset Boulevard is approximately 50 feet wide, and is striped for two lanes in each direction, plus left-turn channelization at major intersections. Parking is prohibited along Sunset Boulevard within the study area.
- <u>Hilgard Avenue</u> is a north/south-oriented secondary highway connecting to Sunset Boulevard to the north and merging with Lindbrook Drive to the south. This roadway is the eastern boundary of the UCLA Campus, and provides two travel lanes in each direction. On-street parking is generally permitted, but prohibited on some segments.

- o <u>Le Conte Avenue</u> is designated as a secondary highway through the commercial portions of Westwood Village (between Gayley Avenue and Hilgard Avenue), but is downgraded to a local (residential) street east of Hilgard Avenue. Le Conte Avenue provides a single travel lane in each direction plus left-turn channelization and onstreet parking on both sides of the street.
- <u>Gayley Avenue</u> is primarily a north/south-oriented secondary highway extending from Veteran Avenue on the north (where it becomes Montana Avenue) to Wilshire Boulevard on the south (where it becomes Midvale Avenue). Gayley Avenue is a primary access route for the UCLA Campus, and is striped to provide one to two travel lanes in each direction. On-street parking is allowed along some portions of Gayley Avenue.
- <u>Strathmore Drive</u> is a local street that serves the residential neighborhood west of the Campus. This roadway also serves through traffic from Veteran Avenue to the Campus. East of Gayley Avenue, Strathmore Drive enters Campus and changes names to Strathmore Place, which is a two-lane per direction internal Campus roadway.
- <u>Levering Avenue</u> is a short, northwest-to-southeast oriented local street to the west of the Campus, beginning at Montana Avenue west of Veteran Avenue, and terminating at Glenrock Avenue west of Gayley Avenue. Although this facility is only approximately one-half mile long, its location and orientation make it an alternate route to Montana/Gayley Avenue both into and out of Westwood Village. At its intersection with Veteran Avenue, Levering Avenue is 40 feet wide and is striped to provide a single lane in each direction plus on-street parking.

- o <u>Veteran Avenue</u> is a north/south oriented secondary highway located west of the Campus. Between Sunset Boulevard and Wilshire Boulevard, Veteran Avenue generally varies in width from approximately 40 to 60 feet, and is striped to provide a single travel lane in each direction, along with on-street parking on both sides of the street. At Wilshire Boulevard, the roadway flares to approximately 70 feet in width, to provide additional through lanes as well as left and right-turn channelization in both the northbound and southbound directions. Veteran Avenue provides a primary connection between Sunset and Wilshire Boulevards, as well as access to the UCLA campus.
- <u>Montana Avenue</u> is an east/west oriented collector street. In the study area one lane is provided in each direction. A northbound off-ramp from the Interstate 405 is provided from Montana. On street parking is restricted to permitted vehicles.
- <u>Sepulveda Boulevard</u> is designated as a major highway, which extends northerly to the vicinity of the I-405 and I-5 interchange and southerly to Manhattan Beach where it terminates into Pacific Coast Highway. Sepulveda Boulevard provides two through lanes in each direction in the vicinity of UCLA.
- o <u>Church Lane</u> is a frontage road located west of the San Diego Freeway. This roadway extends in a southeast-to-northwest direction from Waterford Street to Sunset Boulevard where it continues and crosses the San Diego Freeway and becomes Ovada Place at Sepulveda Boulevard. Church Lane provides two through lanes in the northbound approach and one through lane in the southbound approach at Sunset Boulevard with left-turn and right-turn channelization in both directions. Church Lane also provides access to the I-405 southbound ramps located north of Sunset Boulevard.

- <u>Sawtelle Boulevard</u> is a designated secondary highway and is striped as a four-lane facility with left-turn channelization at major intersections. Sawtelle Boulevard extends in a northwest-to-southeast direction from Ohio Avenue to Overland Avenue south of Jefferson Boulevard in Culver City.
- <u>San Vicente Boulevard</u> is a major arterial that extends from Wilshire Boulevard near the Veteran's Hospital to Ocean Avenue in the City of Santa Monica. San Vicente Boulevard is striped for two through lanes in the northbound and southbound directions with triple left-turns in the southbound approach to Wilshire Boulevard and one left-turn lane and one right-turn lane in the northbound approach.
- <u>Weyburn Avenue</u> is a short local street that traverses the southern end of the UCLA Southwest campus zone, beginning at Veteran Avenue on the west and continuing east of Hilgard Avenue to Le Conte Avenue. Weyburn Avenue generally provides a single travel lane in each direction along with on-street parking on both sides of the street, although two lanes in each direction with no parking are currently provided on the portion of Weyburn Avenue that traverses University property between the Midvale Alley and Veteran Avenue.
- <u>Kinross Avenue</u> is another short local street that runs between Veteran Avenue on the west and Glendon Avenue on the east. This street provides one to two travel lanes and on-street parking in each direction. As part of the Southwest Campus Housing and Parking Project, the parking gates will be removed from this road on the UCLA Southwest campus zone, and this road will be opened to public through traffic.
- <u>Lindbrook Drive</u> is an east/west local street east of Hilgard Avenue. West of Hilgard Avenue, it is a secondary highway striped for two travel lanes in each direction, with

limited on-street parking permitted. This roadway extends northeasterly from Gayley Avenue and terminates at Devon Avenue (east of Beverly Glen Boulevard).

- o <u>Tiverton Avenue</u> is a short secondary roadway running between Lindbrook Drive and Le Conte Avenue. South of Weyburn Avenue, Tiverton Avenue is a one-way facility in the northbound direction. On-street parking is allowed on both sides of the street. North of Le Conte Avenue the roadway enters the UCLA Campus and becomes Tiverton Drive.
- <u>Wyton Drive</u> is a local street east of the UCLA Campus. This roadway extends to Circle Drive East, which allows access to the east side of Campus. Wyton Drive provides one lane in each direction between Hilgard Avenue and Beverly Glen Boulevard.
- <u>Westholme Avenue</u> is a local street east of the UCLA Campus. This two lane residential street extends from Santa Monica Boulevard to Hilgard Avenue, where it becomes an internal Campus roadway.
- Manning Avenue is a local street, which serves the residential community east of the Campus. South of Santa Monica Boulevard, Manning Avenue becomes a secondary roadway and terminates at the Santa Monica Freeway off-ramp on National Boulevard. West of Hilgard Avenue, Manning Avenue jogs northward where it becomes an access roadway to the Campus. This roadway provides one lane in each direction at Hilgard Avenue.
- <u>Malcolm Avenue</u> is a local street located in the study area east of the Campus.
   This roadway extends to the east and runs parallel to Hilgard Avenue. Malcolm
   Avenue also intersects Wilshire Boulevard where it provides one through lane in each direction.

- <u>Beverly Glen Boulevard</u> is a north/south oriented major arterial located approximately 0.5 miles east of the Campus. This roadway extends in a southeastto-northwest direction from Pico Boulevard southeast of campus to Ventura Boulevard in Sherman Oaks. Two through lanes and left-turn channelization are generally provided in the study area.
- Ohio Avenue is an east-west collector street located to the south of the Campus. This facility is a relatively heavily used roadway for local access, as it provides the only roadway connection across the San Diego Freeway between Wilshire and Santa Monica Boulevards. In the campus vicinity, Ohio Avenue is typically 40 feet in width, and is striped to provide a single travel lane in each direction, although at many intersections, localized flaring or parking restrictions allow for left and/or right-turn channelization.
- o Santa Monica Boulevard is a designated east-west major arterial that extends from the City of Santa Monica to the Silver Lake area northwest of Downtown Los Angeles. In the study area, this roadway extends from southwest to northeast. In addition, Santa Monica Boulevard is striped for three to four lanes of travel per direction at the I-405 Freeway and two to three lanes in each direction east of Sepulveda Boulevard. Santa Monica Boulevard consists of two roadways east of Sepulveda Boulevard, generally known as "Big" Santa Monica Boulevard and "Little" Santa Monica Boulevard, which acts essentially as a frontage road. This facility is listed on the CMP road system as part of the CMP roadway network. The City of Los Angeles has an ongoing program to unite "Little" Santa Monica Boulevard with the main roadway and increase capacity.

- <u>Copa De Oro Road</u> is a short local street that intersects Sunset Boulevard and is located across Hilgard Avenue. This roadway serves the residents northeast of the Campus. It provides one lane in each direction.
- <u>Stone Canyon Road</u> primarily serves the residential neighborhood north of UCLA.
   South of Sunset Boulevard, Stone Canyon Road becomes Royce Drive, which is a Campus roadway.
- <u>Bellagio Way</u> is a secondary highway, which serves the residential neighborhood northwest of the Campus. This two lane roadway extends to Sunset Boulevard where it crosses into campus and becomes Bellagio Drive. To the north, this road connects via Bellagio Road and Chalon Road to Roscomare Road and Mulholland Drive.
- <u>Bel Air Road</u> is also a short local street located north of Sunset Boulevard and aligns with Beverly Glen Boulevard. This road provides one lane in each direction.
- o <u>Linda Flora Drive</u> is a short local roadway that intersects Roscomare Road and aligns with Stradella Road. This roadway provides one lane per direction.
- <u>Chalon Road</u> is a local roadway that extends from Stone Canyon Road to Bellagio Road where it bends northerly and becomes Linda Flora Drive. Chalon Road is striped for two lanes.
- <u>Roscomare Road</u> is a north/south oriented collector roadway located approximately one mile north of the Campus. This roadway extends northerly from Chalon Road and terminates at Mulholland Drive to the north. One lane is provided in each direction.

- <u>Stradella Road</u> is a local street also located to the north of the Campus. This roadway generally extends in a north/south direction. Stradella Road extends from Roscomare Road to Sarbonne Road. This roadway provides one lane in each direction.
- <u>Greendale Drive</u> is a short local street located north of Sunset Boulevard and intersects with Beverly Glen Boulevard. This roadway provides one travel lane per direction.
- <u>Mulholland Drive</u> is an east/west oriented major highway located about four miles north of the Campus. Mulholland Drive provides one lane in each direction at Roscomare Road and two lanes in each direction at Beverly Glen Boulevard.

## Study Intersections and Freeways

To provide a conservative assessment of the potential traffic and parking impacts of the 2002 LRDP, this document utilizes traffic impact assessment methodologies that are consistent with University and City of Los Angeles policies (Los Angeles Department of Transportation (LADOT), Traffic Study Policies and Procedures, November 1993). To be consistent with the prior analysis for the 1990 LRDP, this analysis incorporates a detailed evaluation of existing and future traffic conditions at the same 52 study intersections that were addressed in the traffic study for the 1990 LRDP. An additional six intersections (including five located north of Sunset Boulevard) are also incorporated in this study, for a total of 58 study intersections. These intersections were added to make certain that all locations with potential significant traffic impacts were analyzed. These study intersections are listed below, with the additional six intersections shown in bold print:

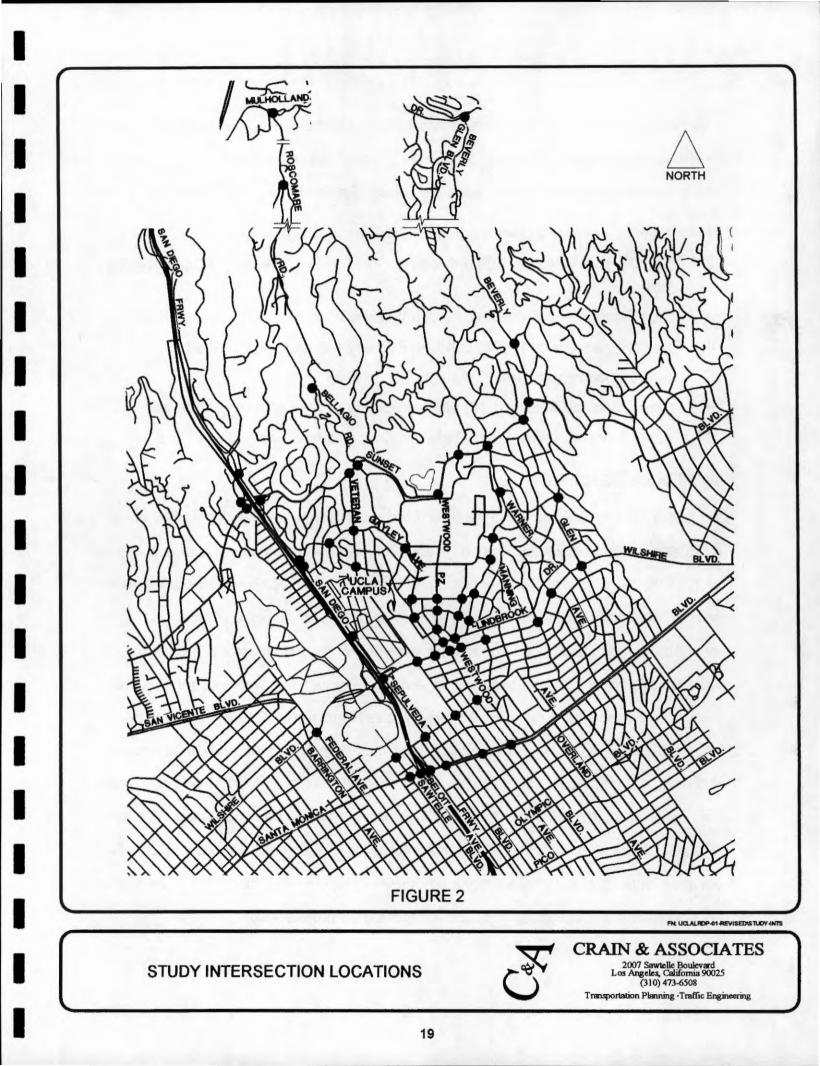
1. Church Lane/Ovada Place and Sepulveda Boulevard

- 2. San Diego Freeway Southbound On/Off Ramps and Church Lane
- 3. Sunset Boulevard and Church Lane
- 4. Sunset Boulevard and San Diego Freeway Northbound On/Off Ramps
- 5. Sunset Boulevard and Veteran Avenue
- 6. Sunset Boulevard and Bellagio Way
- 7. Sunset Boulevard and Westwood Boulevard
- 8. Sunset Boulevard and Stone Canyon Road
- 9. Sunset Boulevard and Hilgard Avenue/Copa De Oro Road
- 10. Sunset Boulevard and Beverly Glen Boulevard
- 11. Sunset Boulevard (East I/S) and Beverly Glen Boulevard
- 12. San Diego Freeway Northbound Off Ramp and Sepulveda Boulevard
- 13. Montana Avenue and Sepulveda Boulevard
- 14. Montana Avenue and Levering Avenue
- 15. Montana Avenue/Gayley Avenue and Veteran Avenue
- 16. Strathmore Place and Gayley Avenue
- 17. Levering Avenue and Veteran Avenue
- 18. Wyton Drive and Hilgard Avenue
- 19. Wyton Drive/Comstock Avenue and Beverly Glen Boulevard
- 20. Westholme Avenue and Hilgard Avenue
- 21. Manning Avenue and Hilgard Avenue
- 22. Le Conte Avenue and Gayley Avenue
- 23. Le Conte Avenue and Westwood Boulevard
- 24. Le Conte Avenue and Tiverton Drive
- 25. Le Conte Avenue and Hilgard Avenue
- 26. Weyburn Avenue and Gayley Avenue
- 27. Weyburn Avenue and Westwood Boulevard
- 28. Weyburn Avenue and Tiverton Drive
- 29. Weyburn Avenue and Hilgard Avenue

- 30. Kinross Avenue and Westwood Boulevard
- 31. Lindbrook Drive and Westwood Boulevard
- 32. Lindbrook Drive and Tiverton Avenue
- 33. Constitution Avenue and Sepulveda Boulevard
- 34. Wilshire Boulevard and San Vicente Boulevard
- 35. Wilshire Boulevard and Sepulveda Boulevard
- 36. Wilshire Boulevard and Veteran Avenue
- 37. Wilshire Boulevard and Gayley Avenue
- 38. Wilshire Boulevard and Westwood Boulevard
- 39. Wilshire Boulevard and Glendon Avenue
- 40. Wilshire Boulevard and Malcolm Avenue
- 41. Wilshire Boulevard and Westholme Avenue
- 42. Wilshire Boulevard and Warner Avenue
- 43. Wilshire Boulevard and Beverly Glen Boulevard
- 44. Ohio Avenue and Sawtelle Boulevard
- 45. Ohio Avenue and Sepulveda Boulevard
- 46. Ohio Avenue and Veteran Avenue
- 47. Ohio Avenue and Westwood Boulevard
- 48. Santa Monica Boulevard and Sawtelle Boulevard
- 49. Santa Monica Boulevard and San Diego Freeway (S/B)
- 50. Santa Monica Boulevard and San Diego Freeway (N/B)
- 51. Santa Monica Boulevard and Sepulveda Boulevard
- 52. Santa Monica Boulevard and Veteran Avenue
- 53. Santa Monica Boulevard and Westwood Boulevard
- 54. Roscomare Road and Mulholland Drive
- 55. Roscomare Road and Stradella Road/Linda Flora Drive
- 56. Chalon Road and Bellagio Road
- 57. Beverly Glen Boulevard and Mulholland Drive

# 58. Beverly Glen Boulevard and Greendale Drive

All of these study intersections are within the area surrounding the UCLA Campus and are the intersections expected to be most directly affected by the vehicle trips generated by the 2002 LRDP. Figure 2 shows the location of these intersections.

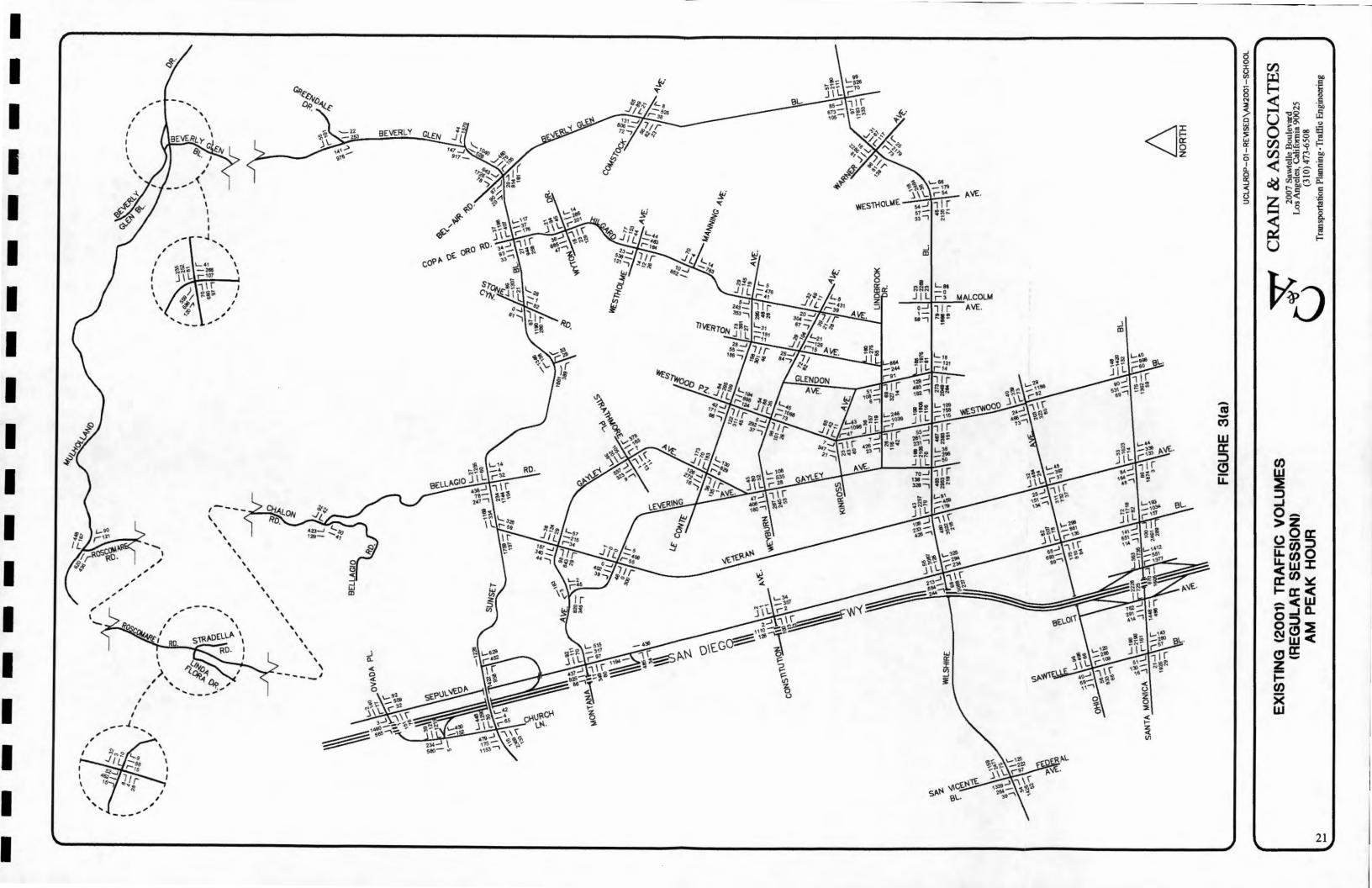


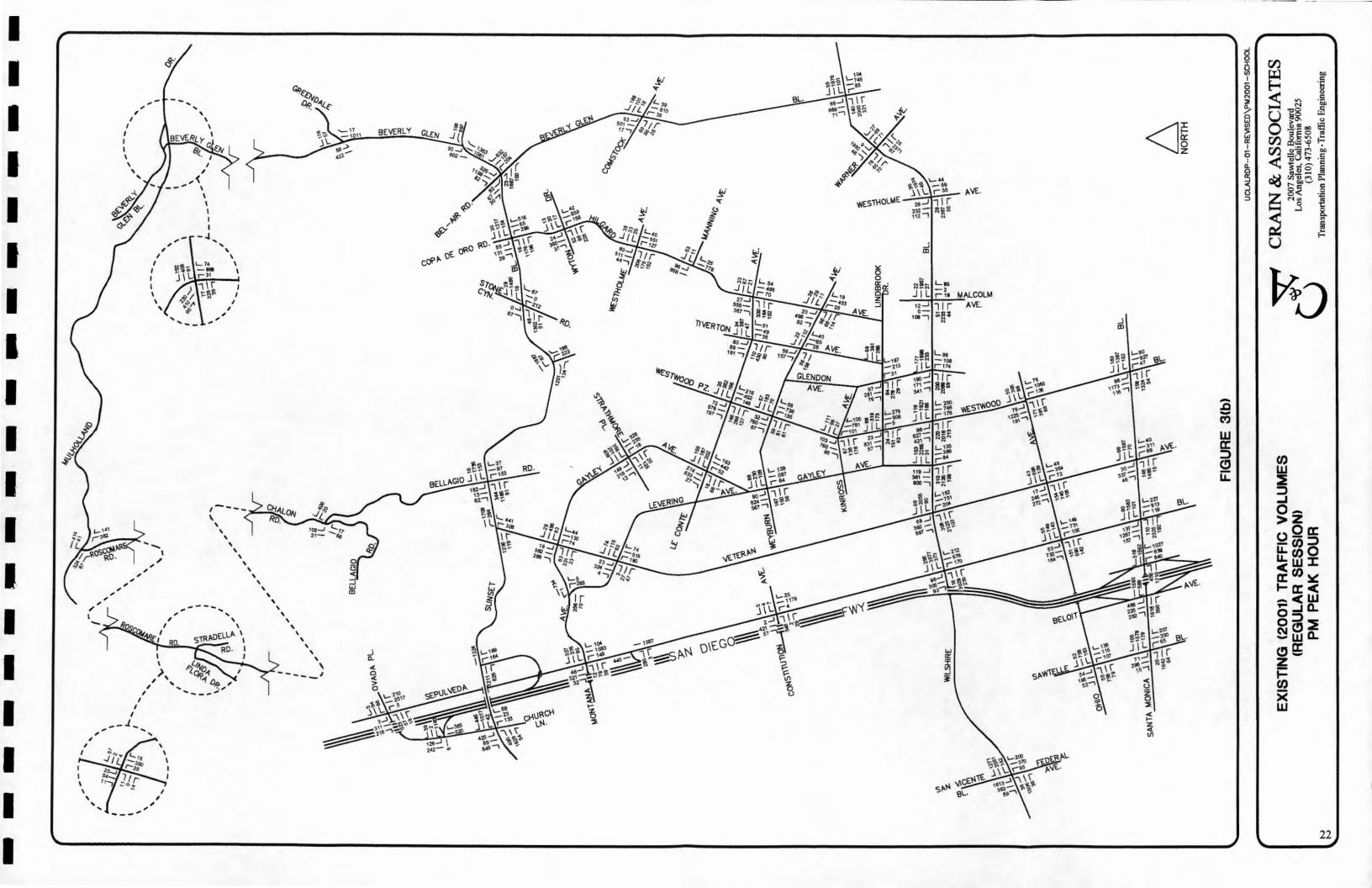
The impact analysis in this study also incorporates two freeways, the San Diego (I-405) Freeway and the Santa Monica (I-10) Freeway, for which seven freeway segments within the general project vicinity were examined. These freeway segments are:

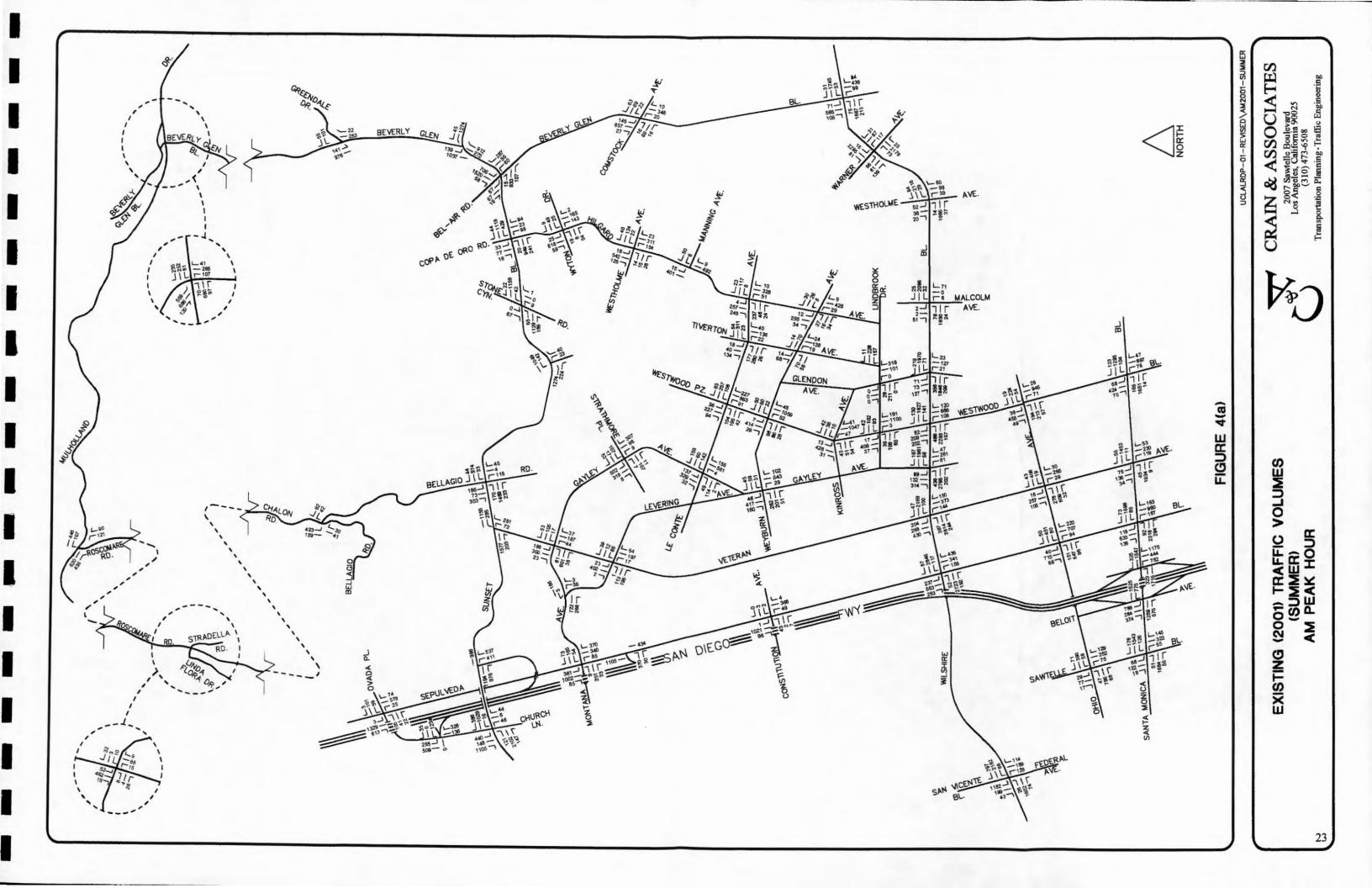
- 1. San Diego Freeway (I-405) south of Santa Monica Freeway
- San Diego Freeway (I-405) between Santa Monica Freeway and Santa Monica Blvd.
- 3. San Diego Freeway (I-405) between Wilshire Blvd. and Santa Monica Blvd.
- 4. San Diego Freeway (I-405) between Sunset Blvd. and Wilshire Blvd.
- 5. San Diego Freeway (I-405) north of Sunset Blvd.
- 6. Santa Monica Freeway (I-10) between Bundy Dr. and San Diego Freeway
- 7. Santa Monica Freeway (I-10) between Overland Ave. and National Blvd.

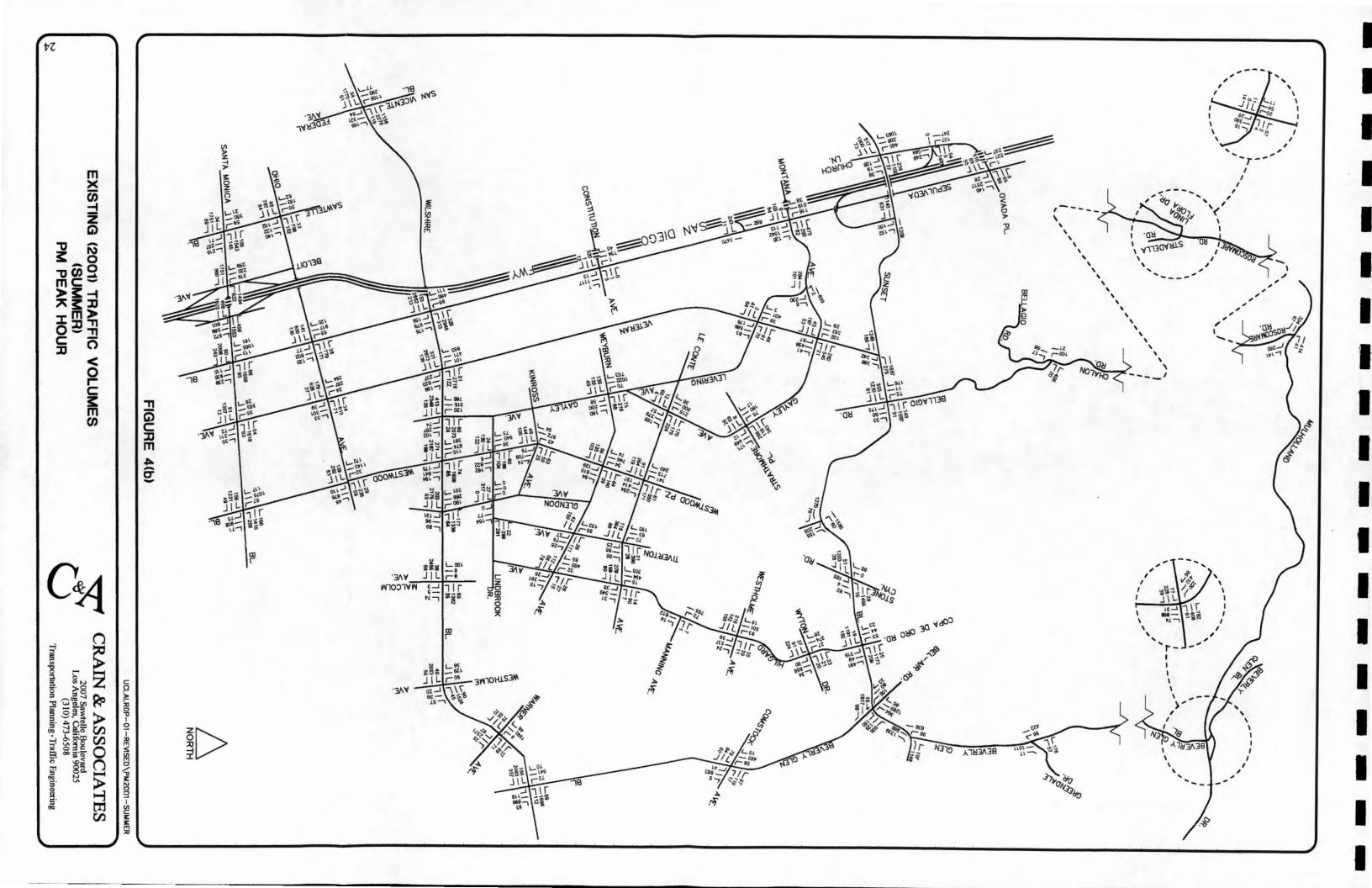
### Existing Traffic Volumes

Counts of existing AM and PM peak period traffic conditions were conducted by Wiltec, a professional data collection company, and Crain & Associates during May and August of 2001 for the 52 original intersections, and winter quarter 2002 when classes were in session for the six added intersections. (Summer traffic volumes for those six intersections were assumed to be the same as during regular session.) The counts were conducted manually at each of the 58 study intersections, where count personnel tracked the number of vehicles making each possible turning movement. The peakhour traffic volumes for each intersection were then determined for analysis purposes by finding the four highest consecutive 15-minute volumes for all movements combined. This procedure provides the highest existing volumes, as it is based on the peak hour for each intersection independent of other intersections. The existing peak hour traffic volumes for the 58 study intersections are shown in Figures 3(a) and 3(b) for the regular school session and in Figures 4(a) and 4(b) for the summer session.







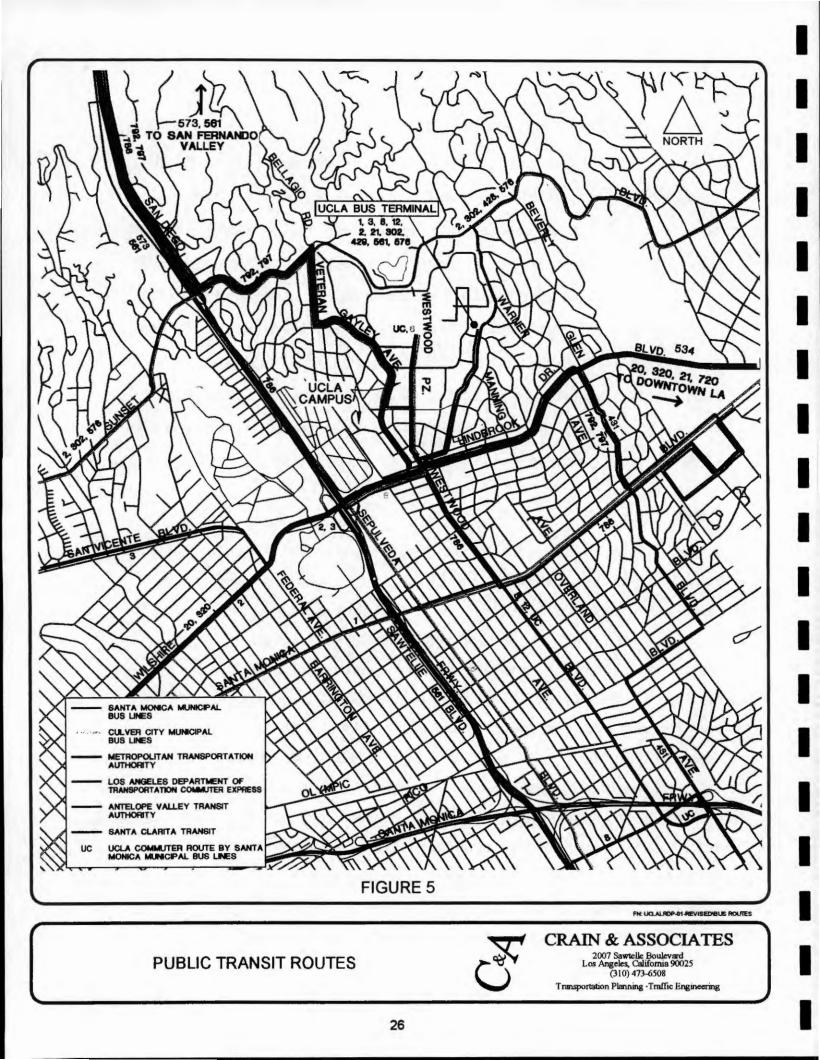


# **ALTERNATIVE TRANSPORTATION**

The UCLA Campus is generally well served by alternative modes of transportation. Viable transit opportunities include public bus services provided by six outside operators, and Campus-operated shuttle bus services. These services not only offer an alternative means by which to commute to the Campus, but also help to reduce the need for a car once at UCLA through the ability to utilize shuttles to get around the Campus, travel into Westwood Village or to other off-campus locations. UCLA has also implemented a Transportation Demand Management (TDM) Program which facilitates and promotes the use of transit, carpools, vanpools and bicycling. The transportation alternatives made available to the Campus population through the various transit services and the Campus trip-reduction program are discussed in greater detail below.

# Public Transit

The UCLA Campus area is served by six public transit operators: Santa Monica Municipal Bus Lines (SMMBL), Culver City Bus (CCB), the Los Angeles County Metropolitan Transportation Authority (LACMTA), the Los Angeles Department of Transportation (LADOT), the Antelope Valley Transit Authority (AVTA), and Santa Clarita Transit (SCT). Together, these operators run a total of 19 bus routes through the Westwood area by way of Le Conte Avenue, Hilgard Avenue, Gayley Avenue Wilshire Boulevard, or Westwood Boulevard. All 19 routes stop within short walking distance of Campus or a UCLA-operated Express Shuttle stop. These 19 bus lines, which are described in greater detail in Appendix A, provide convenient access between the Campus and areas as far west as Pacific Palisades and the City of Santa Monica, as far east as Montebello, as far south as the Los Angeles International Airport (LAX) and as far north as Santa Clarita. When transfer opportunities are also considered, these bus routes provide good transit service to much of the Los Angeles region. Figure 5 shows the public transit routes serving the UCLA Campus.



As shown in Table 2(a), both Line 12 operated by Santa Monica Municipal Bus Lines and Culver City Bus Line 6 are above their seating capacity during the AM and PM peak periods. However, all routes have standing room available. No data was available for the Los Angeles Department of Transportation bus lines, the Antelope Valley Transit Authority bus line and the Santa Clarita Transit bus lines as these are commuter buses.

# Table 2(a) Current Estimated Bus Capacity SMMBL & Culver City Lines Serving UCLA

-1

# AM PEAK (to UCLA)

Route	Total Load	No. of Buses	Seats Available* (40 per Bus)	% of Seats Occupied	Capacity* (60 per Bus)	Capacity Occupied
SMMBL 1	540	18	720	75.0	1,080	50.0
SMMBL 2	253	8	320	79.1	480	52.7
SMMBL 3	144	9	360	40.0	540	26.7
SMMBL 8	379	10	400	94.8	600	63.2
SMMBL 12	531	13	520	102.1	780	68.1
CCB 6	416	10	400	104.0	600	69.3

### PM PEAK (from UCLA)

Route	Total Load	No. of Buses	Seats Available (40 per Bus)	% of Seats Occupied	Total Capacity (60 per Bus)	% of Total Capacity Occupied
SMMBL 1	308	12	480	64.2	720	42.8
SMMBL 2	127	8	320	39.7	480	26.5
SMMBL 3	114	5	200	57.0	300	38.0
SMMBL 8	276	8	320	86.3	480	57.5
SMMBL 12	454	11	440	103.2	660	68.8
CCB 6	402	10	400	100.5	600	67.0

\* The average capacity of existing and future buses is 40 seats per bus and 20 standees per bus. Actual capacity may vary by bus.

Source: Santa Monica Municipal Bus Lines, December 2001 and January 2002, Culver City Bus, November 2000.

Although additional service on these routes would reduce standees, it appears that current total capacity is generally sufficient to meet demand.

In general, the MTA services to Westwood have substantial available capacity, as shown in Table 2(b). Based on MTA-provided data (which does not include data for the AM or PM peak), the most crowded line is the Metro Rapid Line (Line 720), which on a daily basis has 40 to 50 percent of its capacity used. Most other MTA lines serving the UCLA vicinity have much more capacity available.

# Table 2(b) Current Estimated Bus Capacity MTA Lines Serving Westwood

Ava. No.

#### WEEKDAY (to/from Westwood)

Direction	Peak Bus Stop	of Seats Occupied	% of Total Occupied
East	Sunset and S. Beverly Glen	14.5	24.2
West	Gayley and Landfair (east jog)	14.9	24.8
East	Wilshire and Glendon	14.9	24.9
West	Wilshire and Glendon	9.5	15.9
East	Sunset and S. Beverly Glen	6.7	11.2
West	Sunset and N. Beverly Glen	6.5	10.9
North	Hilgard and Charing Cross	15.1	25.1
South	Hilgard and Sunset	18.2	30.4
East/North	Gayley and Landfair (west jog)*	19.0	31.7
West/South	Gayley and Landfair (west jog)**	24.5	40.8
East	Westwood and Wilshire	28.5	47.5
West	Westwood and Wilshire	24.6	40.9
	East West East West East West North South East/North West/South East	EastSunset and S. Beverly GlenWestGayley and Landfair (east jog)EastWilshire and GlendonWestWilshire and GlendonEastSunset and S. Beverly GlenWestSunset and N. Beverly GlenNorthHilgard and Charing CrossSouthHilgard and SunsetEast/NorthGayley and Landfair (west jog)*West/SouthGayley and Landfair (west jog)**EastWestwood and Wilshire	DirectionPeak Bus Stopof Seats OccupiedEastSunset and S. Beverly Glen14.5WestGayley and Landfair (east jog)14.9EastWilshire and Glendon14.9WestWilshire and Glendon9.5EastSunset and S. Beverly Glen6.7WestSunset and N. Beverly Glen6.5NorthHilgard and Charing Cross15.1SouthHilgard and Sunset18.2East/NorthGayley and Landfair (west jog)*19.0West/SouthGayley and Landfair (west jog)*24.5EastWestwood and Wilshire28.5

Also has the same average of 19.0 seats occupied at LeConte and Gayley.

\*\* Also has the same average of 24.5 seats occupied at Gayley and Landfair (east jog), Gayley and Strathmore, Gayley and Veteran, LeConte and Gayley, and LeConte and Westwood.

Source: Metropolitan Transit Authority, Winter, 2002

# Campus Transportation Demand Management (TDM) Program

The UCLA TDM Program began in 1984 with a mission of using parking fees and other UCLA resources to achieve cost-effective reductions in campus trip generation and parking demand, while increasing mobility options for faculty, staff, and students. LRDP Mitigation Measure C-1.1, included in the Final EIR for the 1990 LRDP required that the TDM program be continued and expanded. As a result, the UCLA TDM program has grown into a comprehensive program that offers a broad range of services to encourage and assist UCLA commuters in utilizing alternatives to the single-occupancy vehicle. As part of its on-going TDM Program, UCLA actively provides and promotes vanpools; carpool matching and parking incentive programs; financial incentives for carpool and vanpool participants; accommodation of the use of other modes of transit, including bicycles, motorcycles, and scooters; alternative work schedules and telecommuting; annual distribution of the UCLA Commuter's Guide; parking control management; and restricting access to main campus parking facilities for on-campus housing residents. UCLA has one of the most comprehensive TDM programs in the country with the largest vanpool program of any public or private university. During the more than 18 vears of operation, UCLA's TDM program has remained at the leading edge of such programs, and has received numerous awards from regional and local agencies, including the State of California Governor's award, the City of Los Angeles Mayoral award, and Rideshare Program awards from the South Coast Air Quality Management District (SCAQMD) and Southern California Association of Governments (SCAG).

By 2000, the TDM program had exceeded the goal of a 12-percent reduction in faculty/ staff parking rates (below 1990 LRDP levels) five years earlier than projected in the 1990 LRDP. In addition, since 1990, when the SCAQMD first required a survey of all

employees to determine Average Vehicle Ridership<sup>1</sup> (AVR), the TDM program increased the campus-wide AVR from 1.26 to 1.51 by the Spring of 2000, exceeding the goal of 1.5 set by the SCAQMD. Even in large metropolitan areas, such as Los Angeles, an AVR of 1.5 is considered a high goal to achieve.

The specific components of the TDM Program may change over time as the campus strives for the most cost-effective manner by which to maintain achievement of its required goals, so long as the overall effectiveness of the Program is not compromised. A description of the components of the current TDM program is provided below:

## Carpool Matching

Carpool matching is performed by Southern California Rideshare, the region's ridesharing agency. In addition, the Commuter Guide gives a full explanation of carpooling to UCLA, including an explanation of the convenience and money-saving options of carpool parking permits, (which are currently reduced from \$48 to \$42 for two-person carpools and \$30 for three-person carpools). Information on how to receive a customized 'RideGuide', which aids commuters in finding other people to ride with, is located at the end of the Commuter Guide, including a RideGuide request form. A custom RideGuide not only provides a list of potential car-poolers, it contains a comprehensive, personalized outline of the major transportation options from the individual's community. There are currently over 1,000 active carpools with over 2,300 participants at UCLA.

## Commuter Assistance-Ridesharing

Commuter Assistance-Ridesharing (CAR) currently operates a fleet of over 130 vans, covering more than 85 southern California communities. Approximately 1,425 monthly

<sup>&</sup>lt;sup>1</sup> The AVR is the ratio of employees arriving between 6 AM and 10 AM to the motor vehicles they drive to campus.

full-time riders participate in the program, for which fares are partially subsidized by the campus. Part-time riders can also use the van service at any time on a space available basis. The customized RideGuide provides potential riders with full information on current routes to their community.

### Campus Transit

In addition to the public transit routes described above, the campus also provides shuttle bus service around the campus and from several remote housing facilities. The SCAQMD gave UCLA an Honorable Mention Award in 2000 for its fleet of cleanoperating CNG transit buses. The routes covered are described below.

#### UCLA Campus Express

UCLA currently operates two Campus Express routes which serve the main and Southwest campus which are in service Monday through Friday from 7:00 AM to 6:00 PM and provide approximately 10-minute headways throughout the day.

#### Northwest Campus Shuttle

The Northwest Campus Shuttle operates on school days between 11:30 AM and 2:00 PM on approximately 30-minute headways. This shuttle travels between Macgowan Hall (the terminus of the Campus Express routes), the Child Care Center, the dormitories and the Southern Regional Library Facility.

#### Medical Center Shuttle

The Medical Center Shuttle is a courtesy service provided to patients at the UCLA Medical Center. This shuttle operates between 7:30 AM and 6:30 PM, and serves campus Medical Center facilities on 15 to 20-minute headways.

#### University Apartments Shuttle

This shuttle provides weekday service between Campus and the University Apartments that are located on Venice Boulevard at Barry Avenue, and between Mentone and Keystone Avenues. Only tenants of the University Apartments are eligible to ride this service. The shuttle generally provides hourly headways between 7:00 AM and 10:30 PM during the regular session. Once on Campus, the shuttle serves Ackerman Union, the Life Sciences Building and Murphy Hall.

#### Emergency Ride Home

To further support the campus carpooling and vanpooling efforts, Transportation Services has an 'Emergency Ride Home' program that offers full-time vanpool and carpool participants who must get home during the day for a family emergency or who have to work late free or subsidized rental cars, nightrider vanpools, or special arrangements with existing van and carpools.

#### Bicycles

To support and encourage bicycling to campus safely and comfortably, UCLA provides more than 2,000 bicycle spaces throughout the campus, as well as access to oncampus shower facilities, such as those located in the Men's Gym and Kaufman Hall. The campus continues to work with agencies, such as Los Angeles County Metropolitan Transportation Authority (MTA) and SCAG, as well as UCLA student groups, to promote a comprehensive system of bicycle routes in the vicinity of the campus. Design of the Westwood Replacement Hospital includes provision of a setback that will allow for the future extension of a marked bicycle lane (by the City of Los Angeles) along the east side of Gayley Avenue.

## Motorcycles and Scooters

There are nearly 1,200 specially designated motorcycle/scooter parking spaces located throughout parking lots and structures around campus. Location information and maps are available at the Parking Services office on the main campus and on the Transportation Services Website.

#### **Telecommuting and Alternative Work Schedules**

Transportation Services continues to encourage all campus groups to consider telecommuting and alternative work schedules, including a compressed workweek and flextime schedules. Information about these programs is available through Campus Human Resources and Transportation Services.

## **Electric Vehicles**

UCLA continues to participate in the SCAQMD electric vehicle (EV) infrastructure program called 'Quick Charge LA'. This program consists of a network of over 200 EV charging stations at transit centers, shopping malls, and other locations throughout the region. Currently, there are ten public electric vehicle-charging stations on the UCLA campus. Location information and maps are available at the Parking Services office on the main campus and on the Transportation Services Website.

# **TDM Outreach**

The UCLA Commuter Guide, which is published by UCLA Transportation Services Communications & Marketing Group, is a comprehensive information source describing parking and transportation options at UCLA. The Commuter Guide is distributed to all incoming students, faculty, and staff. In addition, all of UCLA's departmental parking coordinators receive copies of the updated Commuter Guide for distribution each spring, when faculty and staff make decisions regarding annual parking permit renewal.

UCLA also publicizes the availability and convenience of alternative transportation modes to campus through Ridesharing brochures, the Transportation Services Website (<u>www.transportation.ucla.edu</u>), information within the General Catalog and admissions packets sent to students, advertisements in the Daily Bruin, annual commuter fairs, and presentation and distribution of information at new student and employee orientation sessions. Public transit is also actively promoted through MTA, Culver City, and Santa Monica route information and schedule brochures available at the Parking Services office on campus, as well as on the Transportation Services Website. The website provides extensive information regarding commuting regularly to campus using public transit, including links to local public transit providers' published schedules and maps, and inexpensive ways to travel to off-campus locations, such as the airport or Metrolink commuter rail stations.

#### **On-Campus Housing**

Another campus-wide development objective articulated in the 1990 LRDP relates to the provision of on-campus housing, in part, as a component of transportation management. The 1990 LRDP incorporated the Student Housing Master Plan goal aimed at providing housing for 50 percent of the student population in University-owned or private sector housing within one-mile of campus. In support of this goal, the 1990 LRDP adopted a mitigation measure to provide additional housing in the southwest zone of the campus. The Southwest Campus Housing project, which was recently approved by The Regents, will begin construction this year. Upon completion of the Southwest Campus Housing project, UCLA will have reached the goal of providing housing for 50 percent of the total student enrollment in University-owned or private sector housing within walking distance from campus.

#### Bus Fare Subsidy Pilot Program

As part of the campus commitment to review potential methods of enhancing the effectiveness of its TDM program, including revisions to existing strategies and programs and the exploration and development of new programs, the campus currently operates a transit fare subsidy pilot program known as BruinGo.

To explore the effectiveness of a transit fare subsidy in reducing the parking demand, the campus prepared and transmitted a Request for Information (RFI) in 1998 to the local public transit providers (the Santa Monica Municipal Bus Lines, the Metropolitan Transportation Authority, Culver City Municipal Bus Lines, and the Los Angeles Department of Transportation) to gauge interest in conducting a pilot transit fare subsidy program. Although some of the service providers expressed interest, the MTA indicated that it would not participate in a pilot transit pass program because it already offers a college/vocational student pass. The Culver City Municipal Bus Lines and the Los Angeles Department of Transportation indicated that they were not prepared to provide a complete response to the RFI pending resolution of various issues, including the need to acquire the necessary technology (e.g., "card readers") and the financial implications associated with a fare discount based on the promise of volume ridership.

BruinGo was collaboratively launched by UCLA and the Santa Monica Municipal Bus Lines at the beginning of academic year 2000-2001 to provide fare-free bus travel to UCLA students, faculty, and staff on the "Big Blue Bus" upon presentation of a Bruin ID card. The program was intended as a pilot to determine whether subsidized transit fare service would reduce on-campus parking demand. While the campus continues to analyze the effectiveness of BruinGo within the context of the overall campus TDM program, the BruinGo pilot program has been extended for the 2002-03 academic year, through the Spring Quarter of 2003.

# **CAMPUS PARKING AND TRIP GENERATION**

A commuter's decision on whether or not to drive a personal motor vehicle is usually predicated upon their being able to reliably find an affordable parking space upon reaching their destination. This includes UCLA commuters traveling to Campus. In order to control trips to UCLA, two direct parking measures are used. First, parking fees are set to fully recover the cost of constructing and operating parking at UCLA. Second, permits to commuter students are issued on a space available basis. Students able to demonstrate the highest need (e.g. an off-campus job) are given the first opportunity to purchase a parking permit. Thus, at UCLA, trip generation is based not only on the population, but also on the parking supply that serves the Campus. The following section analyzes the parking availability under the 2002 LRDP and the resulting trip generation.

### Parking Supply

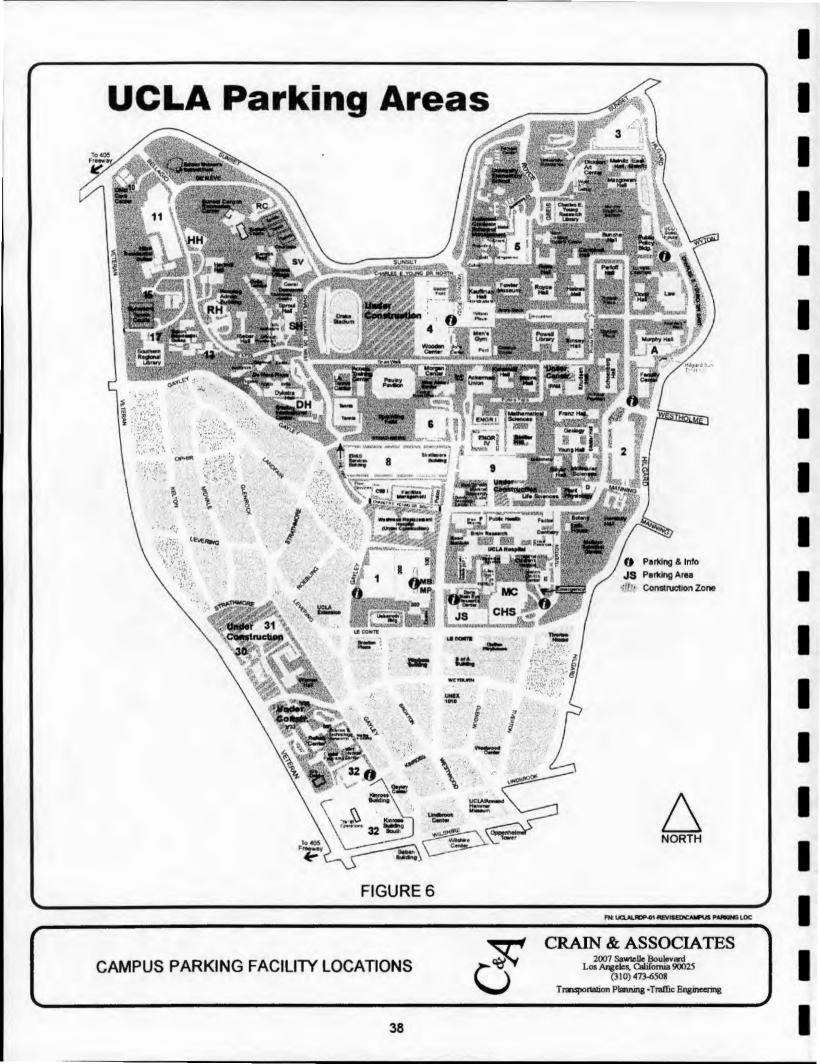
As shown in Table 3, the UCLA Campus currently has approximately 21,020 marked parking spaces and 1,310 stack parking spaces. More than 19,400, or 87 percent, of these spaces are provided in structures. UCLA records also show that about 324 spaces (1.5 percent) have meters, 224 spaces (1.0 percent) are loading zones, and the remainder of 21,782 spaces requires daily or monthly permits. Thus, although UCLA has reservoir of about 22,330 parking spaces, these spaces are tightly controlled with over 97 percent requiring daily or longer permits, and these permits are only issued on a space available basis.

Figure 6 shows the location of the parking areas. As is shown by this figure, the major parking structures are located in the Core, Central, and Health Science zones of the main campus. Limited structure parking is also provided in the Northwest (residential) and Southwest zones of the Campus.

<u>Structures</u> 1 2 3 4	Marked Spaces 1,697 2,257 2,040 1,672	Stacked Parking 110 - - 300	<u>Total</u> <u>Parking</u> 1,807 2,257 2,040 1,972
5	746	-	746
6	753	-	753
8	2,776	900	3,676
9	1,929	-	1,929
32	924	-	924
CHS/G/MC	1,075	-	1,075
E/ER	155	St. 10-1	155
MB/MP	1,144		1,144
RC	147	-	147
Sproul Hall	64	-	64
SV	722		722
Structure Subtotal	18,101	1,310	19,411
<u>Surface Lots</u> Northwest (10, 11, 13, 15, 17,			
Dystra/Bradley, Hedrick, Rieber & Sproul)	872	-	872
Central (A, Dickson Court, Fowler Dock & J)	306	-	306
North (AGSM meters & UES/R)	89	-	89
Southwest North End (30 & 31)	311	-	311
Southwest Other (32, MR, V-32, V-33 & V-34)	849		849
South Medical (Doris/Jules Stein)	131		131
Miscellaneous (D, S, PVUB & W. UnEx) Surface Lots Subtotal	<u>40</u> 2,598		<u>40</u> 2,598
Streets	321	<u> </u>	_321
Parking Inventory Total	21,020	1,310	22,330

	Table	3		
Current (Fall Quarter,	2001)	UCLA	Parking	Inventory

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The Wilshire Center located at 10920 Wilshire Boulevard, was acquired by UCLA in 1992 and currently accommodates various administrative units that were previously located in other leased space in Westwood Village. As the building was constructed in 1981, the traffic impacts of the building had been included in the Westwood Village traffic long before it was acquired by UCLA. Furthermore, the traffic impacts of the building were included in the cumulative baseline for the 1990 LRDP EIR traffic analysis. The Wilshire Center is not within the LRDP boundary and therefore the Wilshire Center parking is not included in the on-campus parking inventory. However, in accordance with the Trip Mitigation Monitoring Agreement between UCLA and the City of Los Angeles, the additional trips generated by the UCLA occupants of the Wilshire Center not generated in 1990 are included in the campus vehicle trip generation cordon count conducted on an annual basis. For analytical purposes, the UCLA employees that occupy the Wilshire Center and other off-campus leased space are conservatively included in the population estimates for the 2002 LRDP traffic study.

#### Parking Allocation

Use of the parking spaces on the UCLA Campus is controlled through a permit system. Employees (who work more than 49 percent time) are eligible to purchase a parking permit, and approximately 83 percent currently exercise this option. A number of spaces are allocated to university guests, emeritus faculty, vendors, medical center patients, and other visitors (through both quarterly and daily permit sales.) A number of student permits are allocated based on institutional priorities, to students with disabilities, certain highly recruited scholars, scholarship athletes, and teaching and research assistants. Additional spaces are allocated to resident students.

The remainder of on-campus parking spaces are allocated to commuter students, which currently results in permits being awarded to approximately 28.3 percent of commuter students (during regular session). Student permits are issued on a need-based point system. Students with off-campus jobs or other special circumstances are given higher priority to purchase permits. Those students most able to use other modes of transportation (e.g., live close to campus) are given the lowest priority.

The availability of student permits varies from year to year, based on the total parking inventory, participation in carpools, vanpools and other alternative transportation modes and the allocation of spaces to faculty/staff, and university guests and visitors. Because student demand typically exceeds the available supply, a waiting list for student parking occurs each year during the regular session. Historically, the waiting list for parking has varied substantially from year-to-year, and throughout the academic year. Typically the waiting list is greatest in the fall, and generally declines through the winter and into the spring. Historically, there has been no waiting list for student parking in the summer. As of Fall 2001, the student waiting list for parking list for parking was approximately 3,300 students.

Table 4(a) summarizes the current allocation of parking spaces to the various campus user groups (in the Fall, when parking demand is greatest). Table 4(b) provides parking space allocations for summer. As shown in Table 4(a), the total number of permits issued is greater than the number of spaces because at any given time a portion of faculty, staff and students (with parking permits) are not on-campus (e.g. because of variable student class schedules, staff vacation, or faculty sabbaticals) or may have traveled to campus using an alternative mode.

Table 4(a)	
Current (Fall 2001) Regular Session Parking Allocation	

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Permit Group	Number	Parking <u>Permits</u>	Parking Spaces
Faculty & Staff-Medical Center	5,617	4,655	3,329
Faculty & Staff-Other University	12,986	10,186	7,341
Resident Students			
Undergraduate	7,334	839	559
Commuter Students			
Student Academic Employee	4,005	2,578	1,853
Other Commuter Students	22,971	6,498	3,952
Quarterly Guest/Emeritus			
Permits	5,671	5,671	2,552
University Extension Permits	4,875	4,875	0
Daily Permit Sales	6,155	6,155	2,196
Other Spaces (Meters/Loading			
Zones)			548
Total		41,457*	22,330*

Table 4(b) Current (2000) Summer Session Parking Allocation

Permit Group	<u>Number</u>	Parking <u>Permits</u>	Total Parking <u>Spaces</u>
Faculty & Staff-Medical Center	5,617	4,655	3,329
Faculty & Staff-Other University	12,986	10,186	7,341
Resident Students			
Undergraduate	715	223	149
Daily Conference Attendees	1,395	697	433
Commuter Students			
Student Academic Employee	2,562	1,649	1,185
Other Commuter Students	7,796	2,934	1,784
Quarterly Guest/Emeritus			
Permits	5,671	5,671	2,552
University Extension Permits	4,875	4,875	0
Daily Permit Sales	6,155	6,155	2,196
Other Spaces (Meters/Loading			
Zones)		-	548
Unsold Spaces		-	2,813
Total		37,045*	22,330*

\* Does not include Wilshire Center parking permits or supply.

Using the parking allocation ratios for each group, and the population for that group, perperson permit and parking space ratios can be developed, as shown in Table 4(c)

Permit Group	Permits per Person	Spaces per Person
Faculty & Staff-Medical Center	0.829	0.593
Faculty & Staff-Other University	0.784	0.565
Resident Students		
Undergraduate*	0.114	0.076
Commuter Students		
Student Academic Employee	0.644	0.463
Other Commuter Students*	0.283	0.172
Quarterly Guest/Emeritus Permits	1.000	0.450
University Extension Permits	1.000	0.000
Daily Permit Sales	1.000	0.357

# Table 4(c) Current (Fall 2001 and Summer 2001) UCLA Parking Allocation Ratios

\* Because more parking spaces are available during the summer, these ratios are higher for commuter students. Permits per person during the summer are 0.312 for undergraduate resident students and 0.376 for other commuter students and spaces per person are 0.208 and 0.229, respectively.

# Campus Vehicle Trips

In conjunction with the adoption of the 1990 LRDP, the University entered into a Transportation Mitigation Monitoring Agreement (TMMA) with the City of Los Angeles, which limits the total number of vehicle trips that can be generated over the 15-year planning horizon of the 1990 LRDP to 139,500 average daily vehicle trips (this limit is codified as LRDP Mitigation Measure C-1.5). To determine the annual status of UCLA Campus trip generation, UCLA conducts a weeklong count of vehicles entering and exiting the UCLA Campus during the third week of October. This week was chosen as it represents a heavy generating week during the regular session. This "Cordon Count" is conducted via a mixture of electronic, mechanical, and manual means (e.g., magnetic road loops, rubber hose counting systems, and persons recording trips at individual

intersections and driveways). As a result, all trips entering and exiting the Campus and the Wilshire Center are recorded, including those trips associated with pass-through traffic (e.g., non-UCLA vehicles traversing the Campus to travel from one location to another).

As shown in Table 5 below, total average daily trip generation for the UCLA Campus has varied since the 1990 LRDP, but has remained well below the LRDP trip cap. (This information, along with data on AM and PM peak periods, is presented graphically in Appendix B of this study.) For the Fall 2001, the Campus generated approximately 121,799 daily vehicle trips during the regular session [as detailed in Table 8(a)]. Approximately 108,325 trips per day occurred during the summer of 2000 [as detailed in Table 8(b)].

Table 5	
Historical Campus Vehicle Trip Gen	eration
(Average Daily Trips)	

1990	123,135
1991	124,011
1992	119,792
1993	122,073
1994	108,133
1995	110,796
1996	113,406
1997	117,820
1998	115,067
1999	114,233
2000	113,436
2001	121,799

Source: Annual UCLA Cordon Counts

# **Campus Trip Generation Rates**

In order to estimate future vehicle trips, and provide an estimate of the relative contribution of parking groups (e.g., faculty/staff, students, resident students and commuter students) to the overall trip generation for the campus, current trip generation rates were developed. These rates are based upon traffic counts from the Fall 2001 Cordon Count study conducted for UCLA and counts conducted during the 1999/2000 and 2000/01 academic years of trips in and out of individual UCLA parking structures.

Counts at individual parking lots and structures were conducted and linear regressions were utilized to disaggregate parking spaces among the various population (or user) groups within each parking lot or structure. The linear regressions compared the total inbound and outbound trips at each time of day to the permits that were issued for that parking structure. In that way a number of trips per permit could be determined for each student and employee user group. The number of cars parked in each area was also determined from this data. Daily permit sales and parking meter revenue data were analyzed to determine the trip generation characteristics of other population segments, such as medical center patients and campus visitors. The results of this analysis are shown in Table 6.

		AM Peak	PM Peak
Permit Group	Daily	Hour <sup>1</sup>	Hour <sup>2</sup>
Faculty & Staff-Medical Center	2.538	0.320	0.329
Faculty & Staff-Other University	3.293	0.289	0.383
Resident Students			
Undergraduate	2.444	0.034	0.202
Commuter Students			
Student Academic Employee	2.913	0.304	0.356
Other Commuter Students	3.716	0.247	0.334
Quarterly Guest/Emeritus Permits	3.789	0.400	0.198
University Extension Permits			
Daily Permit Sales	8.546 <sup>3</sup>	0.493	0.432

## Table 6Current Vehicle Trip Rates Per Space

1. The AM Peak Hour is the highest 1 hour period between 7:00 and 9:00 AM.

2. The PM Peak Hour is the highest 1 hour period between 4:00 and 6:00 PM.

3. Because of the high turnover associated with visitor parking, those spaces allocated to visitor parking generate approximately 8.5 vehicle trips per day.

As shown in this table, differences in trip generation characteristics were identified for general campus and health sciences faculty and staff. Therefore, for the purposes of this study, separate groups were established and are utilized in the analysis of current and future parking and trip rates.

Utilizing current campus population numbers (for each user group), vehicle trip rates (per space) were converted into a per-person trip rate, which is shown on Table 7. It should be noted that the per-person trip rate for commuter students will vary with the supply of student parking. If more parking spaces become available to meet student demand, the per-person rate would increase. Similarly, if the number of available spaces goes down, the per-person commuter student trip rate would decline. Because parking allocations for the other population groups is anticipated to be generally stable (over the planning horizon of the 2002 LRDP), and because the total supply of parking is limited by the parking cap of 25,169 spaces, the per-person trip rates for other groups are not anticipated to vary substantially.

	Regular Session		Su	mmer Ses	sion	
		AM Peak	PM Peak		AM Peak	PM Peak
Permit Group	Daily	Hour	Hour	Daily	Hour	Hour
Faculty & Staff-Medical Center	1.504	0.190	0.195	1.354	0.171	0.175
Faculty & Staff-Other University	1.861	0.163	0.216	1.675	0.147	0.195
Resident Students						
Undergraduate	0.186	0.003	0.015	0.508	0.007	0.042
Daily Conference Attendees*				0.814	0.011	0.067
Commuter Students						
Student Academic Employee	1.348	0.141	0.165	1.213	0.126	0.148
Other Commuter Students	0.639	0.042	0.057	0.850	0.056	0.076
Quarterly Guest/Emeritus						
Permits	1.705	0.180	0.089	1.705	0.180	0.089
University Extension Permits	1.705	0.000	0.000	1.705	0.000	0.000
Daily Permit Sales	3.049	0.176	0.154	3.049	0.176	0.154

#### Table 7 Current Vehicle Trip Rates Per Person

On-campus bed spaces and parking permits are available for conference attendees only during the summer. Daily permit sales include other conference attendees.

Using the above trip rates and current parking allocations, an estimate of how each population group contributes to overall campus trip generation was developed, which is provided in Table 8(a). This breakdown also includes estimates for certain campus uses (e.g., the Child Care Center, Campus shuttle buses) and a single line entry that covers two-wheeled vehicles, and through traffic and drop-off trips.

For an estimate of summer trips [shown in Table 8(b)], 90 percent of the generation rates for the regular session were used for the faculty and staff population groups. The reduction accounts for faculty with nine-month appointments who don't conduct research on campus during the summer, and similarly lower employment levels for certain staff (e.g., food service employees). The lower number of student trips (compared to regular session) reflect the fewer number of students that are on-campus during the summer.

## Table 8(a) Estimated Current Vehicle Trip Generation (Regular Session)

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Permit Group	Daily	AM Peak Hour	PM Peak Hour
Faculty & Staff			
General Campus	24,172	2,119	2,811
Health Sciences	8,449	1,066	1,094
Resident Students			
Undergraduate	1,366	19	113
Commuter Students			
Student Academic Employees	5,398	563	659
Other Commuter Students	14,684	975	1,319
Other Permits			
Quarterly Guest/Emeritus	9,670	1,021	505
University Extension Permits	8,313	April 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Daily Permit Sales	18,768	1,083	948
Other Parking (e.g. meters)	3,931	85	328
2-Wheel Vehicles/Thru Vehicles/Drop-offs	22,042	1,345	1,169
Campus Shuttles	2,948	229	245
Main/Southwest Campus Total	119,741	8,505	9,191
Wilshire Center	2,058	<u>155</u>	206
Cordon Total	121,799	8,660	9,397

### Table 8(b) Estimated Current Vehicle Trip Generation (Summer Session)

Permit Group	Daily	AM Peak Hour	PM Peak Hour
Faculty & Staff			
General Campus	21,755	1,907	2,530
Health Sciences	7,604	959	985
Resident Students			
Undergraduate	363	5	30
Day's Conference Attendees	1,135	16	94
Commuter Students			
Student Academic Employee	3,108	324	379
Other Commuter Students	6,630	440	596
Other Permits			
Quarterly Guest/Emeritus	9,670	1,021	505
University Extension Permits	8,313	-	-
Daily Permit Sales	18,768	1,083	948
Other Parking (e.g. meters)	3,931	85	328
2-Wheel Vehicles/Thru Vehicles/Drop-	22.042	1,345	1,169
offs	22,042		
Campus Shuttles	2,948	229	<u>245</u>
Main/Southwest Campus	106,267	7,414	7,809
Wilshire Center	2,058	155	206
Cordon Total	108,325	7,569	8,015

## **EXISTING TRAFFIC CONDITIONS**

## Analysis of Existing Traffic Conditions

A detailed analysis of current traffic conditions was performed of the 58 study

intersections in the vicinity of the Campus. An analysis of current traffic conditions was

also conducted for seven freeway segments along the San Diego Freeway (I-405) and the Santa Monica Freeway (I-10).

The methodology used in this study for the analysis and evaluation of traffic operations at each study intersection is based on procedures outlined in Circular Number 212 of the Transportation Research Board.<sup>2</sup> In the discussion of Critical Movement Analyses for signalized intersections, procedures are outlined for determining operating characteristics of an intersection in terms of the Level of Service provided for different levels of traffic volume and other variables, such as the number of traffic signal phases. The term "Level of Service" describes the quality of traffic flow. Levels of Service A to C operate quite well. Level D typically is the level for which a metropolitan area street system is designed. Level E represents volumes at or near the capacity of the highway, which will result in possible stoppages of momentary duration and fairly unstable flow. Level F occurs when a facility is overloaded, and is characterized by stop-and-go traffic with stoppages of long duration.

A determination of the Level of Service ("LOS") at an intersection, where traffic volumes are known or have been projected, can be obtained through a summation of the critical movement volumes at that intersection. Once the sum of critical movement volumes has been obtained, the values indicated in Table 9 can be used to determine the applicable Level of Service.

<sup>&</sup>lt;sup>2</sup> Interim Materials on Highway Capacity, Circular Number 212, Transportation Research Board, Washington, D.C., 1980.

#### Table 9

## Critical Movement Volume Ranges For Determining Levels of Service\*

	Maximum Sum of Critical Volumes (VPH)			
Level of Service	Two Phase	Three Phase	Four or More Phases	
A	900	855	825	
В	1,050	1,000	965	
С	1,200	1,140	1,100	
D	1,350	1,275	1,225	
E	1,500	1,425	1,375	
F		Not Applica	ble	

For planning applications only, i.e., not appropriate for operations and design applications.

Capacity is defined herein to represent the maximum total hourly movement volume which has a reasonable expectation of passing through an intersection under prevailing roadway and traffic conditions. For planning purposes, capacity equates to the maximum value of LOS E, as indicated in Table 9. The Critical Movement Analysis ("CMA") indices used in this study were calculated by dividing the sum of critical movement volumes by the appropriate capacity value for the type of signal control present or proposed at the study intersections. Thus, the LOS corresponding to a range of CMA values is shown in Table 10.

### Table 10 Level of Service As a Function of CMA Values

Level of Service	Range of CMA Values
A	<= 0.60
В	0.601 - 0.700
С	0.701 - 0.800
D	0.801 - 0.900
E	0.901 - 1.000
F	>1.000

By applying this analysis procedure to the study intersections, the CMA values and the corresponding LOS values for the existing regular session and summer traffic conditions were determined. Those values, for existing, AM and PM peak hour conditions (year 2001), are shown in Table 11 for traffic conditions during the regular session and Table 12 for traffic conditions during the summer.

As the values in Table 11 indicate, 39 of the 58 study intersections during the regular session are presently operating at Levels of Service A to D during both peak hour periods. Similarly, Table 12 shows that 44 study intersections are operating at LOS D or better during both peak hour periods in the summer. Those study intersections that are operating at LOS E or F at one or both of the peak hours are located along Church Lane, Sunset Boulevard, Montana Avenue, Wilshire Boulevard, Ohio Avenue, Santa Monica Boulevard and Mulholland Drive.

Inte	ersection	<u>AM Pea</u> <u>CMA</u>	<u>k Hour</u> LOS	<u>PM Pea</u> <u>CMA</u>	
1.	Church Ln. / Ovada Pl. and Sepulveda Blvd.	0.925	E	0.960	E
2.	San Diego Fwy S/B On/Off Ramps and Church Ln.	0.950	Е	0.953	E
3.	Sunset Blvd. and Church Ln.	0.884	D	0.814	D
4.	Sunset Blvd. and San Diego Fwy N/B On/Off Ramps	0.823	D	0.544	А
5.	Sunset Blvd. and Veteran Ave.	0.892	D	0.820	D
6.	Sunset Blvd. and Bellagio Way	0.941	Е	1.008	F
7.	Sunset Blvd. and Westwood Blvd.	0.599	А	0.609	в
8.	Sunset Blvd. and Stone Canyon Rd.	0.505	А	0.604	в
9.	Sunset Blvd. and Hilgard Ave. / Copa de Oro Rd.	0.833	D	0.851	D
10.	Sunset Blvd. and Beverly Glen Blvd. / Bel Air Rd.	1.001	F	1.066	F
11.	Sunset Blvd. (east I/S) and Beverly Glen Blvd.	1.039	F	1.087	F
12.	San Diego Fwy N/B off-ramp and Sepulveda Blvd.	0.506	А	0.564	А
13.	Montana Ave. and Sepulveda Blvd.	0.931	Е	0.890	D
14.	Montana Ave. and Levering Ave.	1.012	F	0.837	D
15.	Montana Ave. / Gayley Ave. and Veteran Ave.	0.866	D	0.999	E
16.	Strathmore Pl. and Gayley Ave.	0.697	В	0.625	в
17.	Levering Ave. and Veteran Ave	0.491	А	0.637	в
18.	Wyton Dr. and Hilgard Ave.	0.427	А	0.300	А
19.	Wyton Dr. / Comstock Ave. and Beverly Glen Blvd.	0.782	С	0.787	С

# Table 11Critical Movement Analysis SummaryExisting (2001) Traffic Conditions During Regular Session

		AM Pea		PM Pea	
Inter	section	CMA	LOS	CMA	LOS
20.	Westholme Ave. and Hilgard Ave.	0.450	Α	0.469	Α
21.	Manning Ave. and Hilgard Ave.	0.273	А	0.320	А
22.	Le Conte Ave. and Gayley Ave.	0.646	В	0.548	А
23.	Le Conte Ave. and Westwood Blvd.	0.602	В	0.572	А
24.	Le Conte Ave. and Tiverton Dr.	0.315	А	0.297	А
25.	Le Conte Ave. and Hilgard Ave.	0.543	А	0.621	в
26.	Weyburn Ave. and Gayley Ave.	0.421	А	0.691	в
27.	Weyburn Ave. and Westwood Blvd.	0.428	А	0.459	А
28.	Weyburn Ave. and Tiverton Dr.	0.327	А	0.378	А
29.	Weyburn Ave. and Hilgard Ave.	0.356	А	0.525	А
30.	Kinross Ave. and Westwood Blvd.	0.407	А	0.705	С
31.	Lindbrook Dr. and Westwood Blvd.	0.369	А	0.431	А
32.	Lindbrook Dr. and Tiverton Ave.	0.599	А	0.525	А
33.	Constitution Ave. and Sepulveda Blvd.	0.415	А	0.590	А
34.	Wilshire Blvd. and San Vicente Blvd.	1.006	F	1.142	F
35.	Wilshire Blvd. and Sepulveda Blvd.	1.056	F	1.065	F
36.	Wilshire Blvd. and Veteran Ave.	0.934	Е	1.361	F
37.	Wilshire Blvd. And Gayley Ave.	0.689	в	0.785	С
38.	Wilshire Blvd. and Westwood Blvd.	0.715	С	0.709	С
39.	Wilshire Blvd. and Glendon Ave.	0.770	С	0.867	D
40.	Wilshire Blvd. and Malcolm Ave.	0.622	в	0.768	С
41.	Wilshire Blvd. and Westholme Ave.	0.814	D	0.805	D
42.	Wilshire Blvd. and Warner Ave.	0.757	С	0.635	в

# Table 11 (cont.)Critical Movement Analysis SummaryExisting (2001) Traffic Conditions During Regular Session

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Table 11 (cont.)
Critical Movement Analysis Summary
Existing (2001) Traffic Conditions During Regular Session

		AM Pea	k Hour	PM Pea	k Hour	
Inter	section	CMA	LOS	CMA	LOS	
43.	Wilshire Blvd. and Beverly Glen Blvd.	0.846	D	0.849	D	
44.	Ohio Ave. and Sawtelle Blvd.	0.943	Е	0.871	D	
45.	Ohio Ave. and Sepulveda Blvd.	1.008	F	0.949	Е	
46.	Ohio Ave. and Veteran Ave.	0.819	D	0.989	E	
47.	Ohio Ave. and Westwood Blvd.	0.730	С	0.779	С	
48.	Santa Monica Blvd. and Sawtelle Blvd.	0.874	D	0.836	D	
49.	Santa Monica Blvd. and San Diego Fwy (S/B)	0.816	D	0.675	В	
50.	Santa Monica Blvd. and San Diego Fwy (N/B)	1.039	F	0.837	D	
51.	Santa Monica Blvd. and Sepulveda Blvd.	0.970	Е	1.016	F	
52.	Santa Monica Blvd. (N) and Veteran Ave.	0.875	D	0.914	Е	
53.	Santa Monica Blvd. (N) and	0.812	D	0.852	D	
54.	Roscomare Rd. and Mulholland Dr.	1.195	F	0.715	С	
55.	Roscomare Rd. and Stradella Rd./Linda Flora Dr.	0.498	A	0.444	A	
56.	Chalon Rd. and Bellagio Rd.	0.523	А	0.501	А	
57.	Beverly Glen Blvd. and Mulholland Dr.	1.026	F	1.048	F	
58.	Beverly Glen Blvd. and Greendale Dr.	0.812	D	0.811	D	

## Table 12Critical Movement Analysis SummaryExisting (2001) Traffic Conditions During Summer

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Inte	ersection	<u>AM Peal</u> <u>CMA</u>		PM Pea CMA	<u>k Hour</u> LOS
1.	Church Ln. / Ovada Pl. and Sepulveda Blvd.	0.779	С	0.971	E
2.	San Diego Fwy S/B On/Off Ramps and Church Ln.	0.973	Е	1.193	F
3.	Sunset Blvd. and Church Ln.	0.767	С	0.927	Е
4.	Sunset Blvd. and San Diego Fwy N/B On/Off Ramps	0.760	С	0.413	А
5.	Sunset Blvd. and Veteran Ave.	0.812	D	0.867	D
6.	Sunset Blvd. and Bellagio Way	0.939	Е	1.042	F
7.	Sunset Blvd. and Westwood Blvd.	0.486	А	0.565	А
8.	Sunset Blvd. and Stone Canyon Rd.	0.395	А	0.582	А
9.	Sunset Blvd. and Hilgard Ave. / Copa de Oro Rd.	0.798	С	0.808	D
10.	Sunset Blvd. and Beverly Glen Blvd. / Bel Air Rd.	0.926	E	1.063	F
11.	Sunset Blvd. (east I/S) and Beverly Glen Blvd.	0.885	D	1.079	F
12.	San Diego Fwy N/B off-ramp and Sepulveda Blvd.	0.434	A	0.509	A
13.	Montana Ave. and Sepulveda Blvd.	0.668	В	0.850	D
14.	Montana Ave. and Levering Ave.	0.859	D	0.748	С
15.	Montana Ave. / Gayley Ave. and Veteran Ave.	0.778	С	0.969	E
16.	Strathmore Pl. and Gayley Ave.	0.623	В	0.466	А
17.	Levering Ave. and Veteran Ave	0.489	А	0.633	В
18.	Wyton Dr. and Hilgard Ave.	0.330	А	0.300	А
19.	Wyton Dr. / Comstock Ave. and Beverly Glen Blvd.	0.609	В	0.751	С

		AM Pea	ak Hour	PM Pea	ak Hour
Inter	section	CMA	LOS	CMA	LOS
20.	Westholme Ave. and Hilgard Ave.	0.390	Α	0.404	А
21.	Manning Ave. and Hilgard Ave.	0.182	А	0.223	А
22.	Le Conte Ave. and Gayley Ave.	0.567	А	0.519	А
23.	Le Conte Ave. and Westwood Blvd.	0.559	А	0.553	А
24.	Le Conte Ave. and Tiverton Dr.	0.311	А	0.299	А
25.	Le Conte Ave. and Hilgard Ave.	0.404	А	0.439	А
26.	Weyburn Ave. and Gayley Ave.	0.406	А	0.779	С
27.	Weyburn Ave. and Westwood Blvd.	0.412	А	0.442	А
28.	Weyburn Ave. and Tiverton Dr.	0.282	А	0.389	А
29.	Weyburn Ave. and Hilgard Ave.	0.328	А	0.493	А
30.	Kinross Ave. and Westwood Blvd.	0.429	А	0.560	А
31.	Lindbrook Dr. and Westwood Blvd.	0.364	А	0.367	А
32.	Lindbrook Dr. and Tiverton Ave.	0.294	А	0.311	А
33.	Constitution Ave. and Sepulveda Blvd.	0.376	А	0.531	А
34.	Wilshire Blvd. and San Vicente Blvd.	0.885	D	0.918	Е
35.	Wilshire Blvd. and Sepulveda Blvd.	0.973	Е	1.000	Е
36.	Wilshire Blvd. and Veteran Ave.	0.847	D	1.292	F
37.	Wilshire Blvd. And Gayley Ave.	0.647	В	0.742	С
38.	Wilshire Blvd. and Westwood Blvd.	0.699	В	0.698	В
39.	Wilshire Blvd. and Glendon Ave.	0.621	В	0.721	С
40.	Wilshire Blvd. and Malcolm Ave.	0.634	В	0.824	D
41.	Wilshire Blvd. and Westholme Ave.	0.630	в	0.778	С
42.	Wilshire Blvd. and Warner Ave.	0.757	С	0.635	в

# Table 12 (cont.)Critical Movement Analysis SummaryExisting (2001) Traffic Conditions During Summer

# Table 12 (cont.)Critical Movement Analysis SummaryExisting (2001) Traffic Conditions During Summer

Inter	section	<u>AM Pea</u> <u>CMA</u>	<u>k Hour</u> LOS	PM Pea CMA	<u>LOS</u>
43.	Wilshire Blvd. and Beverly Glen Blvd.	0.703	С	0.818	D
44.	Ohio Ave. and Sawtelle Blvd.	0.861	D	0.875	D
45.	Ohio Ave. and Sepulveda Blvd.	0.815	D	0.965	Е
46.	Ohio Ave. and Veteran Ave.	0.687	в	0.890	D
47.	Ohio Ave. and Westwood Blvd.	0.561	А	0.641	В
48.	Santa Monica Blvd. and Sawtelle Blvd.	0.838	D	0.886	D
49.	Santa Monica Blvd. and San Diego Fwy (S/B)	0.870	D	0.667	В
50.	Santa Monica Blvd. and San Diego Fwy (N/B)	0.783	С	0.737	С
51.	Santa Monica Blvd. and Sepulveda Blvd.	0.901	Е	0.871	D
52.	Santa Monica Blvd. (N) and Veteran Ave.	0.729	С	0.873	D
53.	Santa Monica Blvd. (N) and Westwood Blvd.	0.771	С	0.841	D
54.	Roscomare Rd. and Mulholland Dr.	1.195	F	0.715	С
55.	Roscomare Rd. and Stradella Rd./Linda Flora Dr.	0.498	A	0.444	Α
56.	Chalon Rd. and Bellagio Rd.	0.523	А	0.501	А
57.	Beverly Glen Blvd. and Mulholland Dr.	1.026	F	1.048	F
58.	Beverly Glen Blvd. and Greendale Dr.	0.812	D	0.811	D

Note: Regular Session counts were used for study intersection nos. 42 and 54 through 58.

#### Analysis of Existing Freeway Conditions

An examination was also made of freeway conditions on the two regional facilities within the project study area. Seven freeway segments were selected for this analysis. These segments are:

- 1. San Diego Freeway (I-405) south of Santa Monica Freeway
- 2. San Diego Freeway (I-405) between Santa Monica Freeway and Santa Monica Blvd.
- 3. San Diego Freeway (I-405) between Wilshire Blvd. and Santa Monica Blvd.
- 4. San Diego Freeway (I-405) between Sunset Blvd. and Wilshire Blvd.
- 5. San Diego Freeway (I-405) north of Sunset Blvd.
- 6. Santa Monica Freeway (I-10) between Bundy Dr. and San Diego Freeway
- 7. Santa Monica Freeway (I-10) between Overland Ave. and National Blvd.

Current traffic volumes on these freeway segments were obtained from several sources. Daily, AM and PM peak hour traffic volumes on the segments analyzed were obtained from the most current Caltrans data.<sup>3</sup> In addition, AM and PM peak hour directional splits were taken from the Los Angeles County 1999 Congestion Management Program ("CMP"). All of the year 2000 freeway traffic volumes were growth-factored by one percent to reflect year 2001 traffic conditions, per CMP traffic forecasting procedures. Existing freeway geometrics (e.g., number of mainline travel lanes) for each of the segments analyzed were determined from CMP data, aerial photographs and field surveys. Segment peak hour traffic capacities were computed for each direction using established Highway Capacity Manual ("HCM") methodology. As detailed in procedures discussed in the HCM Chapter 3, each mainline travel lane was assumed to have a capacity of 2,000 vehicles per hour (VPH). The total directional capacities were then computed, and used in conjunction with the previously determined peak hour directional freeway segment volumes to calculate the existing 2001 freeway levels of services in the project vicinity. These values are shown in Table 13.

<sup>&</sup>lt;sup>3</sup> 2000 Traffic volumes on California State Highways, Caltrans Website.

As shown in Table 13, many study segments on the San Diego Freeway (I-405) and the Santa Monica Freeway (I-10) currently operate at or above design capacity during at least one of the peak hours, resulting in severe congestion and travel speeds of less than 25 miles per hour. The remaining freeway study segments are operating at acceptable levels of service during one or both of the peak hours.

<u>No.</u> 1.	Location San Diego Fwy. (I-405) South of	Peak Hour AM PM	Dir. N/B	<u>No.</u> Lanes 5 5	Freeway Capacity 10,000 10,000	<u>Daily</u> <u>Volume</u> 307,000	Peak Hr Volume 12,430 11,190	<u>D/C</u> 1.243 1.119	LOS F(0) F(0)
	Santa Monica Fwy.	AM PM	S/B	5 5	10,000 10,000		7,450 10,420	0.745 1.042	C F(0)
2.	San Diego Fwy. (I-405) Btwn. Santa	AM PM	N/B	5 5	10,000 10,000	313,100	8,250 11,350	0.825 1.135	D F(0)
Monica Fwy. & Santa Monica Blvd.	AM PM	S/B	5 5	10,000 10,000		11,910 10,570	1.191 1.057	F(0) F(0)	
3.	San Diego Fwy. (I-405) Btwn.	AM PM	N/B	6 6	12,000 12,000	291,900	7,720 11,280	0.643 0.940	C E
	Wilshire Blvd. & Santa Monica Blvd.	AM PM	S/B	6 6	12,000 12,000		11,140 9,230	0.928 0.769	D C
4.	San Diego Fwy. (I-405) Btwn.	AM PM	N/B	5 5	10,000 10,000	264,600	6,906 11,940	0.696 1.194	C F(0)
	Sunset Blvd. & Wilshire Blvd.	AM PM	S/B	5 5	10,000 10,000		10,040 6,540	1.004 0.654	F(0) C
5.	San Diego Fwy. (I-405) North of	AM PM	N/B	5 5	10,000 10,000	262,600	6,850 11,740	0.685 1.174	C F(0)
	Sunset Blvd.	AM PM	S/B	4 4	8,000 8,000		9,880 6,440	1.235 0.805	F(0) D
6.	Santa Monica Fwy. (I-10) Btwn.	AM PM	W/B	5 5	10,000 10,000	255,500	7,580 9,840	0.758 0.984	C E
	Bundy Dr. & San Diego Fwy.	AM PM	E/B	5 5	10,000 10,000		10,070 9,350	1.007 0.935	F(0) E
7.	Santa Monica Fwy. (I-10) Btwn.	AM PM	W/B	4 4	10,000 10,000	267,700	7,410 7,540	0.741 0.754	C C
	Overland Ave. & National Blvd.	AM PM	E/B	5 5	8,000 8,000		8,380 9,630	1.048 1.204	F(0) F(0)

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## Table 13Existing (2001) Freeway Volumes and Levels of Service

Note: LOS designations based on criteria detailed in Appendix D, Exhibit D6, page D-40, 1997, Los Angeles County CMP.

### STUDY METHODOLOGY

#### COMPUTER MODEL OVERVIEW

Future traffic volumes for the project study area were projected using a micro-computer version of the Southern California Association of Government's ("SCAG") Transportation Model. This model projects future traffic conditions (for academic year 2010/11<sup>4</sup>) assuming current trends in regional growth. For this study, various changes were incorporated into the model to account for future highway improvements, projections of local and on-campus growth (from previously-approved projects), and implementation of mitigation measures (including those transportation demand control measures adopted for the 1990 LRDP and capacity enhancements for recently-approved UCLA projects). In addition, key assumptions about campus transportation programs (such as continued implementation of TDM programs) were factored into future projections of campus parking demand and trip generation. The following sections describe the regional computer model, the ways in which the regional model was modified for this study, and other relevant assumptions used in this analysis.

#### Model Refinements

The transportation model used for this study is based on a regional model developed by SCAG which incorporates a regional land use database developed in consultation with local jurisdictions and a highway network developed with input from transportation agencies throughout the region. The parameters of the model (trip generation rates, roadway capacity, etc.) have been calibrated to closely replicate the transportation patterns unique to the Southern California region. The model and modeling procedures

<sup>&</sup>lt;sup>4</sup> To provide a conservative analysis, although the LRDP is based on academic years, the future year modeled for this study was 2011. Throughout this document, future traffic conditions, or future year 2011 conditions is intended to reflect traffic conditions during the academic year 2010/11.

used in this study are described more fully in Appendix C of this report.

Because the SCAG model covers a five-county region (including Los Angeles, Ventura, Orange, San Bernardino and Riverside Counties), it must be adapted to more accurately reflect local conditions within the study area. For this study, the roadway network contained within the SCAG model was refined to reflect the highway network in the study area. Additional roadway "links" were added to represent the streets and highways in and around the project vicinity, including the UCLA Campus and Westwood area. Field surveys were used to document roadway geometrics, turning restrictions, traffic signal phasing, on-street parking and other factors which may affect vehicle travel speeds and routes.

#### **Future Highway Improvements**

After the model has been refined to reflect current conditions within the study area, the model was further refined to account for future highway improvements, so that future traffic conditions reflect those improvements. This includes only those improvements now under construction or for which implementation is reasonably assured (e.g., already funded, or included in an adopted transportation program). These improvements include provision of High-Occupancy Vehicle (HOV) or "carpool" lanes on the San Diego Freeway, as well as those programmed for the Golden State, Hollywood and Antelope Valley Freeways. Surface street improvements include the addition of a reversible lane on Sepulveda Boulevard north of Wilshire Boulevard, and the Santa Monica Transitway improvements. Other potential improvements which may not be implemented by year 2011 were not included, such as trip-reduction measures required by the South Coast Air Quality Management District (SCAQMD) and the Los Angeles County Congestion Management Program (CMP).

#### **Cumulative Traffic Growth/Related Projects**

To develop projections of future traffic conditions in the study area, the SCAG transportation model uses current land use data and socioeconomic projections to estimate future traffic volumes on regional highways and major streets. The socioeconomic data is developed for the SCAG Regional Plan and Comprehensive Guide (RCPG) and is updated on a periodic basis in consultation with relevant jurisdictions charged with regulating development in the five county area.

Because the SCAG model covers a five-county region, it must be adapted to more accurately reflect local conditions within the study area. Both current land use data and future socio-economic projections were disaggregated to smaller zones in the study area to better replicate traffic access patterns and provide a finer level of detail.

In addition to regional projections of future growth, the traffic study also accounted for the impact of previously-approved or other "reasonably foreseeable" projects on the UCLA campus and the study area. Using information gathered from the City of Los Angeles and UCLA, a variety of "related projects" were identified, including those projects which are completed but not fully occupied, are currently under construction or beginning construction, or are presently only proposed but which could become operational by 2011. A list of the non-UCLA related projects for this study is provided in Table 14(a). Figure 7 depicts the location of all non-UCLA related projects. This list represents all projects within a 2-1/2 mile radius of the campus center. This includes all related projects anticipated to have a potential significant impact at study intersections.

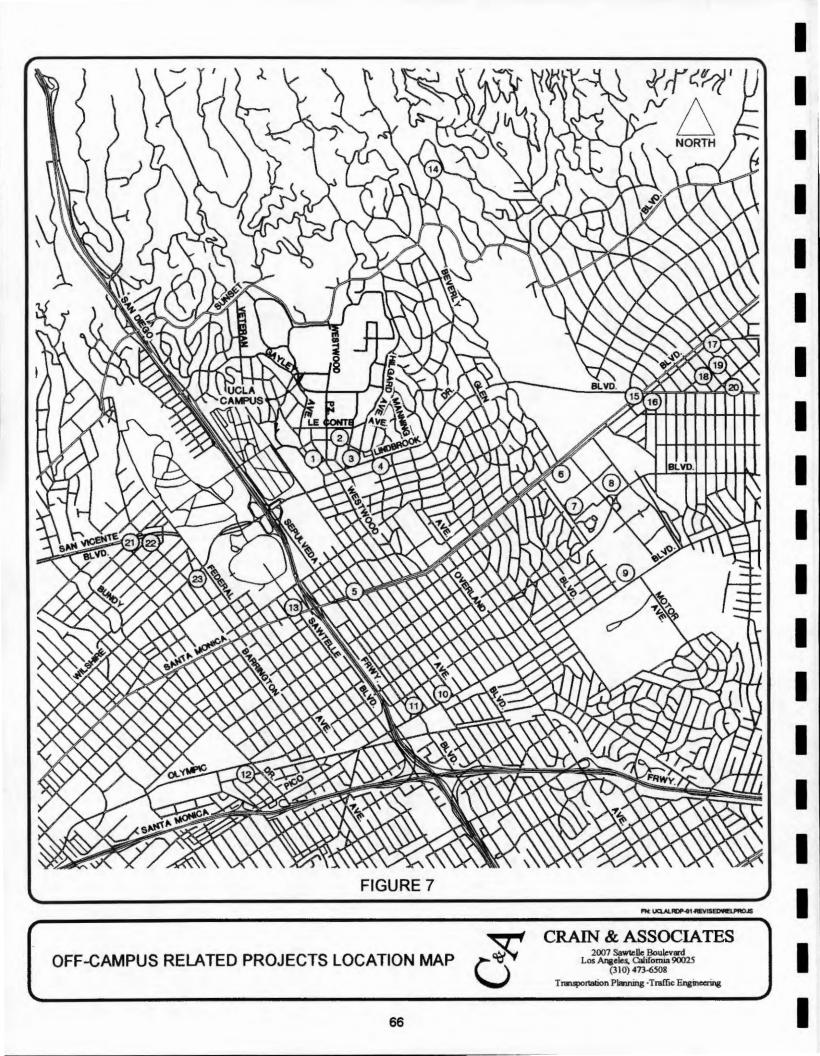
A list of UCLA projects that are approved, under construction or analyzed in a Certified EIR and are reasonably foreseeable is provided in Table 14(b).

## Table 14(a) Non-UCLA Related Projects

				Retail	Non-Retail	Total
No.	Description	Location	MDU	Employees	Employees	Employees
1.	19,000 sf Whole Foods Supermarket	1050 Gayley Ave.	0	235	0	235
	937 seat Movie Theater(Previous Use)		0	(28)	0	(28)
	10,500 sf Restaurant(Previous Use)		<u>0</u>	(23)	<u>0</u>	(23)
			0	184	0	184
2.	115,000 sf Shopping Center	1001 Tiverton Ave.	0	253	0	253
	350 DU Apartment		350	<u>0</u>	<u>0</u>	<u>0</u>
			350	253	0	253
3.	19 DU Apartment	10852 Lindbrook Ave.	19	0	0	0
	6,100 sf Specialty Retail		0	13	0	13
	16,100 sf Specialty Retail(Previous Use)		<u>0</u>	(35)	<u>0</u>	(35)
			19	(22)	0	(22)
4.	107 DU Condominium	10804 Wilshire Blvd.	107	0	0	0
5.	6 Pump Gas Station w/ Convenience Market	10991 Santa Monica Blvd.	0	22	0	22
6.	71,000 sf Century City Shopping Center	10250 Santa Monica Blvd.	0	156	0	156
7.	791,000 sf General Office	10270 Constellation Blvd.	0	0	3,164	3,164
8.	ABC Entertainment Center	2000 Avenue of the Stars	0	(487)	1,724	1,238
9.	360,000 sf Fox Studio Expansion(remainder est.)	10201 W. Pico Blvd.	0	0	1,440	1,440
10.	2,300 sf Fast-Food Restaurant w/ Drive-thru	11021 W. Pico Blvd.	0	5	0	5
11.	74,653 sf Office Building	11110 W. Pico Blvd.	0	0	299	299
12.	330,000 sf Office	12233 W. Olympic Blvd.	0	0	1,320	1,320
	41,000 sf Office(Previous Use)		0	0	(164)	(164)
	6,000 sf Specialty Retail(Previous Use)		0	(13)	0	(13)
	16 Pump Gas Station(Previous Use)		<u>0</u>	(66)	<u>0</u>	(66)
			0	(79)	1,156	1,077
13.	1,140 sf Retail(Alcohol Permit)	11305 Santa Monica Blvd.	0	(3)	0	(3)

## Table 14(a) cont. Non-UCLA Related Projects

				Retail	Non-Retail	Total
No.	Description	Location	MDU	Employees	Employees	Employees
14.	Harvard-Westlake Middle School-	700 N. Faring Rd.				
	24 students (net), 15 employees (net)		0	0	15	15
15.	95,000 sf Office	Wilshire BI and	0	0	380	380
	9,633 sf Retail (Previous Use)	Santa Monica Bl.	<u>0</u>	(21)	<u>0</u>	<u>(21)</u>
			0	(21)	380	359
16.	20 du Condominium	137-147 Spalding Dr.	20	0	0	0
17.	15,000 sf Shopping Center	421-427 N. Beverly Dr.	0	33	0	33
	15,000 sf Office		<u>0</u>	<u>0</u>	<u>60</u>	<u>60</u>
			0	33	60	93
18.	15,000 sf Shopping Center	339 N. Rodeo Dr.	0	33	0	33
19.	5,000 sf Shopping Center	360 N. Rodeo Dr.	0	11	0	11
20.	41,500 sf Office	233-269 N. Beverly Dr.	0	0	166	166
21.	54,313 sf Shopping Center	11711 San Vicente Bl.	0	119	0	119
22.	1,900 sf Fast-Food Restaurant w/ Drive-thru	11712 San Vicente Bl.	0	4	0	4
23.	146,708 sf Office	11677 Wilshire Bl.	0	0	587	587



### Table 14(b)

### **UCLA Projects\***

Project	Net New GSF	<b>Population Change</b>
Men's Gym Staging Bldg (Wooden West)	33,025	0
Intramural Field Parking (Storage Space)	3,000	0
Physics and Astronomy	101,900	6
Luck Research Center	95,000	45
Southwest Campus Staging Building	75,000	0
Acosta Training Center	33,325	0
Gloria Kaufman Hall (Garden Dance Theater)	3,600	0
Nanosystems Engineering Facilities Plan	166,000	174
Southwest Campus Housing	882,000	37
Childcare	10,000	TBD
Total Net New GSF	1,402,850	262

	Renovation or
Seismic Renovation	<b>Replacement GSF</b>
Academic Health Center Replacement	
(Hospital, SRB1 & 2)	1,710,000
Broad Art Center	146,000
Kinsey Hall	142,000
Men's Gym	103,300
Gloria Kaufman Hall (Dance)	81,000

Note:

GSF = gross square feet; TBD = to be determined

\*Includes projects that were not completed at the time of LRDP traffic counts, and that are reasonably foreseeable (i.e., approved, under construction or analyzed in a certified EIR).

Source: UCLA, May 2002

The net effect of the UCLA projects would include an increase of approximately 262 faculty and staff (associated with the Luck Research Center, the Southwest Campus project, the Physics and Astronomy Building, and the Nanosystems Engineering Facilities Plan), and provide on-campus housing for approximately 2,000 graduate resident students. In addition, a total of approximately 3,552 parking spaces would be provided by the Replacement Hospital, Southwest Campus Housing and Intramural Field Parking Structure projects, with stack parking and other parking spaces being removed, such that UCLA will remain at or under the 1990 LRDP parking cap of 25,169.

To estimate future traffic conditions, for each zone in the study area, the traffic volume that would result from the SCAG socioeconomic data was compared to the volumes that would result from the related projects (identified for that zone). The larger of the traffic volumes (from the SCAG data or the list of related projects) was added to the existing traffic volumes to estimate future traffic conditions. This was conservative in that the highest potential traffic volumes were used for each zone.

#### Campus Population Estimates

The population projections provided in the 2002 LRDP include two types of campus population counts: headcount and average weekday population. Although average weekday population is a more accurate estimate of the number of persons that are physically present on the campus during a typical weekday (based on reductions due to less than full time work and class schedules, vacations, sick days, sabbaticals, etc.), for the purposes of this analysis, headcount is used since the variation between headcount and average weekday attendance is reflected in the campus parking permit over-issue factor, where the number of parking permits exceeds the physical number of spaces.

The distribution and assignment of trips was performed by the transportation computer model. The computer model utilized the following assignment of travel. It should be noted that in order to better account for local trips, a relatively close model cordon (Sunset

Boulevard, Beverly Glen Boulevard, Santa Monica Boulevard and the San Diego Freeway) was used as shown in Table 15 below. Thus, all trips are counted in the direction they leave campus. For instance, trips which travel southbound on the San Diego Freeway are counted as south directed trips even though some of these trips may then travel to the east on the Santa Monica Freeway.

Table 15 lists the direction for the portions of trips near the campus.

### Table 15 Direction of Campus Trips

North	21%
South	38%
East	12%
West	18%
Local	11%

#### **Campus Programs and Practices**

Consistent with mitigation measures adopted for the 1990 LRDP, the campus has developed a range of programs and practices designed to reduce parking demand, minimize trip generation, encourage alternative transportation and increase on-campus housing. For the purposes of this study, it is assumed that those programs and practices limiting parking and trips while increasing housing will remain in effect. Although the specific elements of the Transportation Demand Management program may change over the planning horizon of the 2002 LRDP, the overall commitments established in the 1990 LRDP, and the average vehicle ridership goal established by the South Coast Air Quality Management District will remain in effect.

Under the 1990 LRDP, the Campus adopted goals to expand on-campus housing and established limits for on-campus parking (at 25,169 spaces) and the number of vehicle trips that could be generated by the Campus (at 139,500 average daily trips). These limits form the backbone of UCLA's commitment to limiting the campus traffic impact on the local street and regional highway network.

Several other measures demonstrate this commitment as well. In 1985, the Commuter Assistance-Rideshare ("CAR") office was formed to administer UCLA's outreach to students and faculty/staff commuters. This office administers UCLA's vanpool program, which operates over 130 vanpools, in addition to a carpool program and other rideshare or trip-reduction support. In 1987, UCLA adopted a Transportation Systems Demand Management ("TSDM") Plan to further increase ridesharing among UCLA commuters. Continued expansion of this plan was included as a mitigation measure in the 1990 LRDP along with a goal of reducing faculty and staff parking demand 12 percent below pre-(1990) LRDP levels.

In addition to the daily trip cap of 139,500 average daily vehicle trips, the TMMA also established an AM peak period (7:00 to 9:30 AM) limit of 24,320 average daily trips and a PM peak period (3:00 to 6:30 PM) cap of 37,122 average daily trips. To monitor compliance with the trip caps included in the TMMA, UCLA conducts an annual "cordon count," which is a count of all vehicles entering and exiting campus during the third week in October (since the Fall Quarter has the greatest parking demand).

The trip impacts of individual projects are evaluated in conjunction with the CEQA review of those projects. If a project proposed during the LRDP planning horizon is estimated to cause an exceedance of the caps, per LRDP Mitigation Measure C-1.5, such project will not be occupied until appropriate trip reductions have been achieved, and the net effect of occupying the project will not cause the trip caps to be exceeded.

In order to facilitate this reduction in trips, UCLA is continuing and expanding its ridesharing program. The campus has achieved an Average Vehicle Ridership ("AVR") of 1.5, a goal established by the Southern California Air Quality Management District ("SCAQMD") to reduce air pollution and traffic congestion. As part of the 2002 LRDP, the campus would continue to maintain the 1.5 AVR. The ridesharing measures necessary to maintain this

AVR goal will assist the campus to maintain the trip caps established in the 1990 LRDP (and TMMA), and achieve trip reductions through alternative mode usage.

In addition, the campus has continued to expand the student housing program, including the construction of on-campus housing, and the development and acquisition of off-campus housing. These housing programs further reduce the generation of campus related vehicle trips.

In summary, the Campus has: 1) adopted trip generation caps and a parking inventory cap; 2) adopted and surpassed a parking-demand reduction target for faculty and staff; and 3) achieved an AVR goal of 1.5 riders per vehicle. The Campus proposes to retain the parking and trip caps, maintain the parking reduction target, and maintain the AVR during the planning horizon for the 2002 LRDP. These policies will continue to minimize the potential traffic and parking impacts of the 2002 LDRP. The specific components of the TDM Program may change over time as the campus strives for the most cost-effective manner by which to maintain achievement of its required goals, so long as the overall effectiveness of the program is not compromised (as embodied in the parking cap, and the trip cap).

#### PROJECT IMPACTS

#### SIGNIFICANCE THRESHOLDS

Under CEQA, each local jurisdiction must determine which traffic (and other environmental) impacts it considers "significant". For this study, significant project-related traffic impacts at study intersections are defined by the University of California, which is the lead agency for the project. For the UCLA campus, the University uses the City of Los Angeles significance criteria.

The City of Los Angeles defines a significant traffic impact based on a "stepped scale," with intersections at high volume-to-capacity ratios being more sensitive to additional traffic than those operating with available surplus capacity. A significant impact is identified as an increase in the CMA value of 0.010 or more, when the final ("With Project") LOS is E or F; a CMA increase of 0.020 or more when the final LOS is D, or an increase of 0.040 or more at LOS C. No significant impacts are deemed to occur at LOS A or B, as these operating conditions exhibit sufficient surplus capacities to accommodate large traffic increases with little effect on traffic delays.

The Los Angeles County Congestion Management Plan ("CMP") identifies an impact of less than two percent for a final ("With Project") Level of Service of E or better as less than significant. The University has adopted this significance criteria for freeway traffic impacts.

Criteria have not been set for public transit. However, to exceed the total capacity of a route would be considered adverse. A project contributing more than two percent to this excess would be considered significant by the Los Angeles County Congestion Management Plan.

#### **FUTURE "WITHOUT PROJECT" CONDITIONS**

To estimate the future traffic volumes (for the year 2011) that would result without implementation of the 2002 LRDP (or approval of any new projects), the UCLA projects listed in Table 14(b) were analyzed to determine how those projects would impact the parking inventory and vehicle trip generation for the Campus. Based on the characteristics of the projects (including the Southwest Campus Housing and the Intramural Field Parking Structure projects) the UCLA trip generation rates developed for this study was applied in order to estimate future UCLA trips for 2010/11 without adoption of the 2002 LRDP, as shown in Table 16.

	Regular Session		5	Summer Sessi	n	
		AM Peak	PM Peak		AM Peak	PM Peak
	Daily	Hour	Hour	Daily	Hour	Hour
Faculty & Staff-Medical Center	1.504	0.190	0.195	1.354	0.171	0.175
Faculty & Staff-Other University	1.861	0.163	0.216	1.675	0.147	0.195
Resident Students						
Undergraduate	0.186	0.003	0.015	0.508	0.007	0.042
Graduate	0.959	0.091	0.101	0.958	0.092	0.100
Not Enrolled/Employed Off-Campus	N/A	N/A	N/A	3.350	0.280	0.400
Day's Conference Attendees	N/A	N/A	N/A	0.814	0.011	0.067
Commuter Students						
Student Academic Employee	1.348	0.141	0.164	1.213	0.126	0.148
Other Commuter Students	0.974	0.065	0.088	0.851	0.056	0.076
Quarterly Guest/Emeritus Permits	1.705	0.180	0.089	1.705	0.180	0.089
University Extension Permits	1.705	0.000	0.000	1.705	0.000	0.000
Daily Permit Sales	3.049	0.176	0.154	3.049	0.176	0.154

#### Table 16 UCLA On-Campus Trip Generation Rates Future "Without Project" Conditions

The trip rates in Table 16 indicate that development of the Southwest Campus Housing and Parking project would result in a new population "user group," of graduate student residents. In addition, due to an increase in the supply of on-campus parking (associated with the related projects, including the Intramural Field Parking Structure), the per-person trip rate for students would increase in the future (compared to current conditions, because more student permits would be available, and therefore more student trips would be generated).

Using the trip generation rates above, an estimate of the total number of vehicle trips that would be generated by the Campus in 2010/11 (without implementation of the 2002 LRDP) was developed, as shown in Table 17(a) and (b).

Permit Group	Number	Daily Trips	AM Peak <u>Hour Trips</u>	PM Peak Hour Trips
Faculty & Staff-Medical Center	5,617	8,449	1,066	1,094
Faculty & Staff-Other University	13,074	24,336	2,133	2,830
Resident Students				
Undergraduate	7,334	1,366	19	113
Graduate	2,000	1,917	182	201
Not Enrolled/Employed Off-				
Campus	0	0	0	0
Commuter Students				
Student Academic Employee	3,219	4,339	453	529
Other Commuter Students	21,757	21,190	1,407	1,904
Quarterly Guest/Emeritus Permits	5,671	9,670	1,021	505
University Extension Permits	5,336	9,099	0	0
Daily Permit Sales	6,155	18,768	1,083	948
Other Parking		3,931	85	328
Two-Wheeled/Through/Drop-Off				
Vehicles		22,042	1,345	1,169
Shuttles		2,948	229	245
Main/Southwest Campus		128,055	9,023	9,866
Wilshire Center	950	1,768	<u>155</u>	206
Cordon Total		129,823	9,178	10,072

#### Table 17(a) Future "Without Project" Trip Generation (Regular Session)

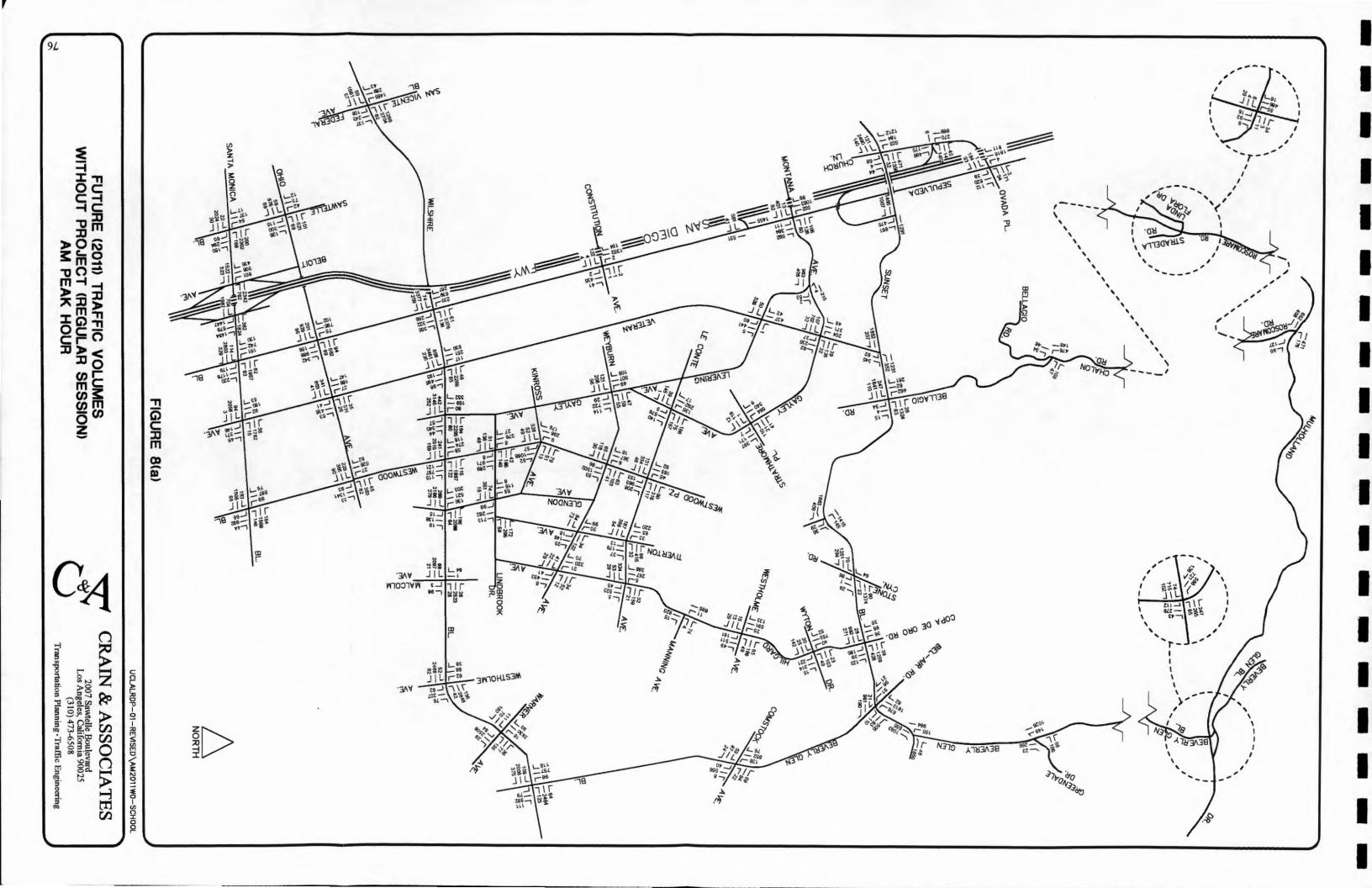
As shown in Table 17(a), in the future, without implementation of the 2002 LRDP, during the regular session, the UCLA Campus would generate approximately 129,823 average daily trips, 9,178 trips during the morning peak hour, and 10,072 trips during the afternoon peak. This would represent an increase of approximately 8,024 average daily trips, 518 trips during the AM peak hour, and 675 trips during the PM peak hour, compared to current conditions (for 2000/01).

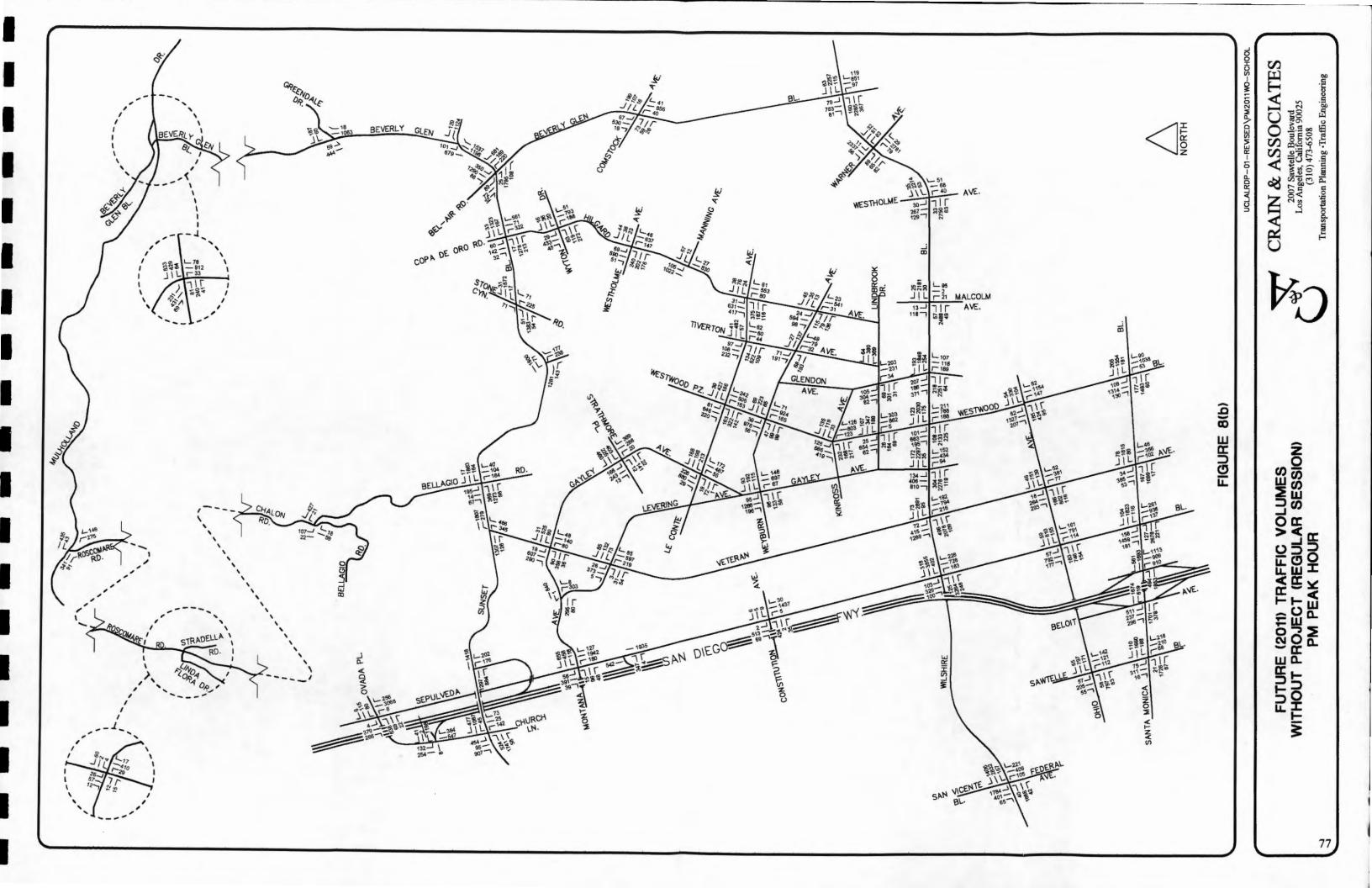
During the summer, the UCLA Campus would generate approximately 113,543 daily trips, 7,959 AM peak hour trips and 8,569 PM peak hour trips, as shown in Table 17(b).

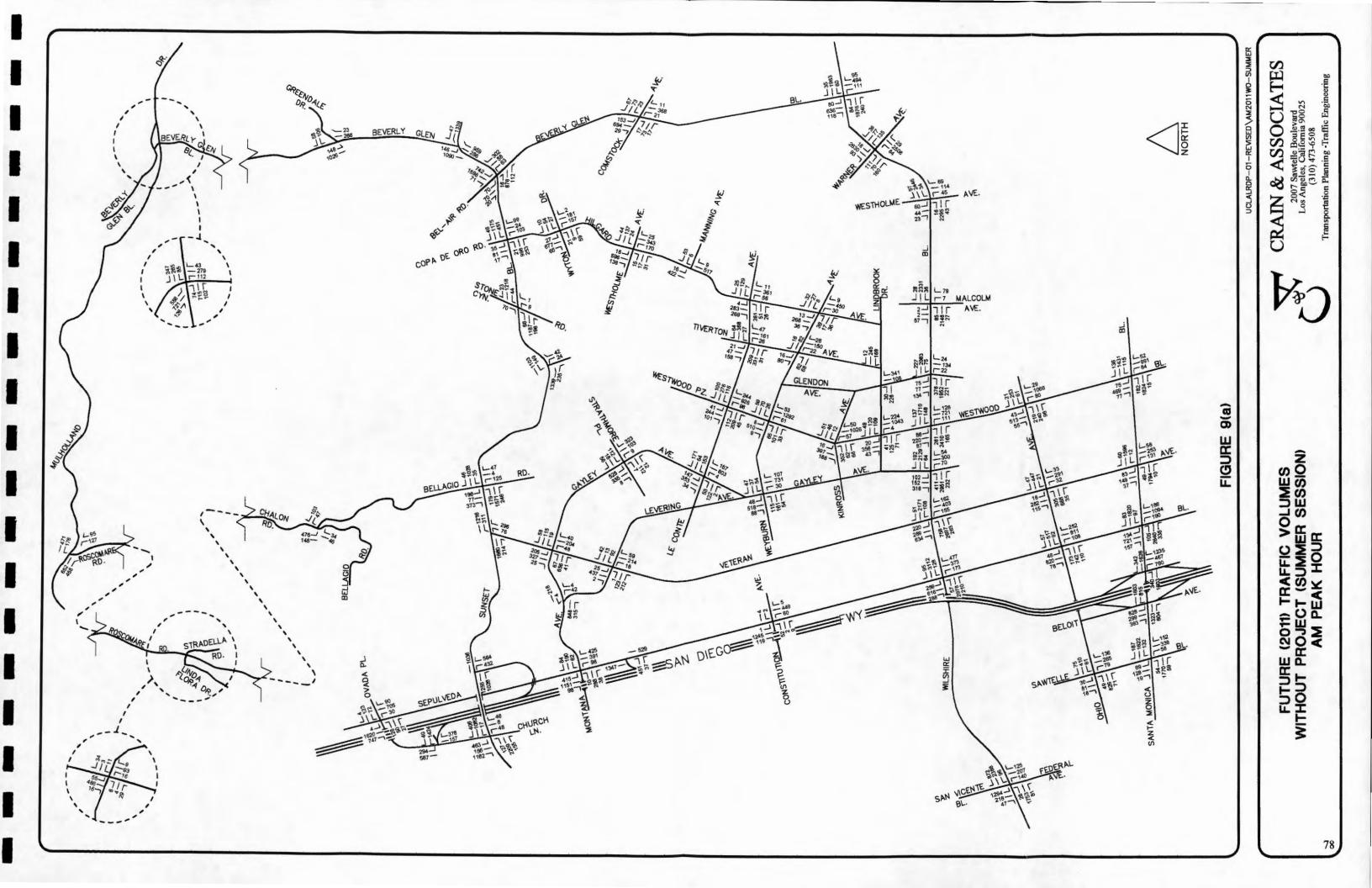
#### Table 17(b) Future "Without Project" Trip Generation (Summer Session)

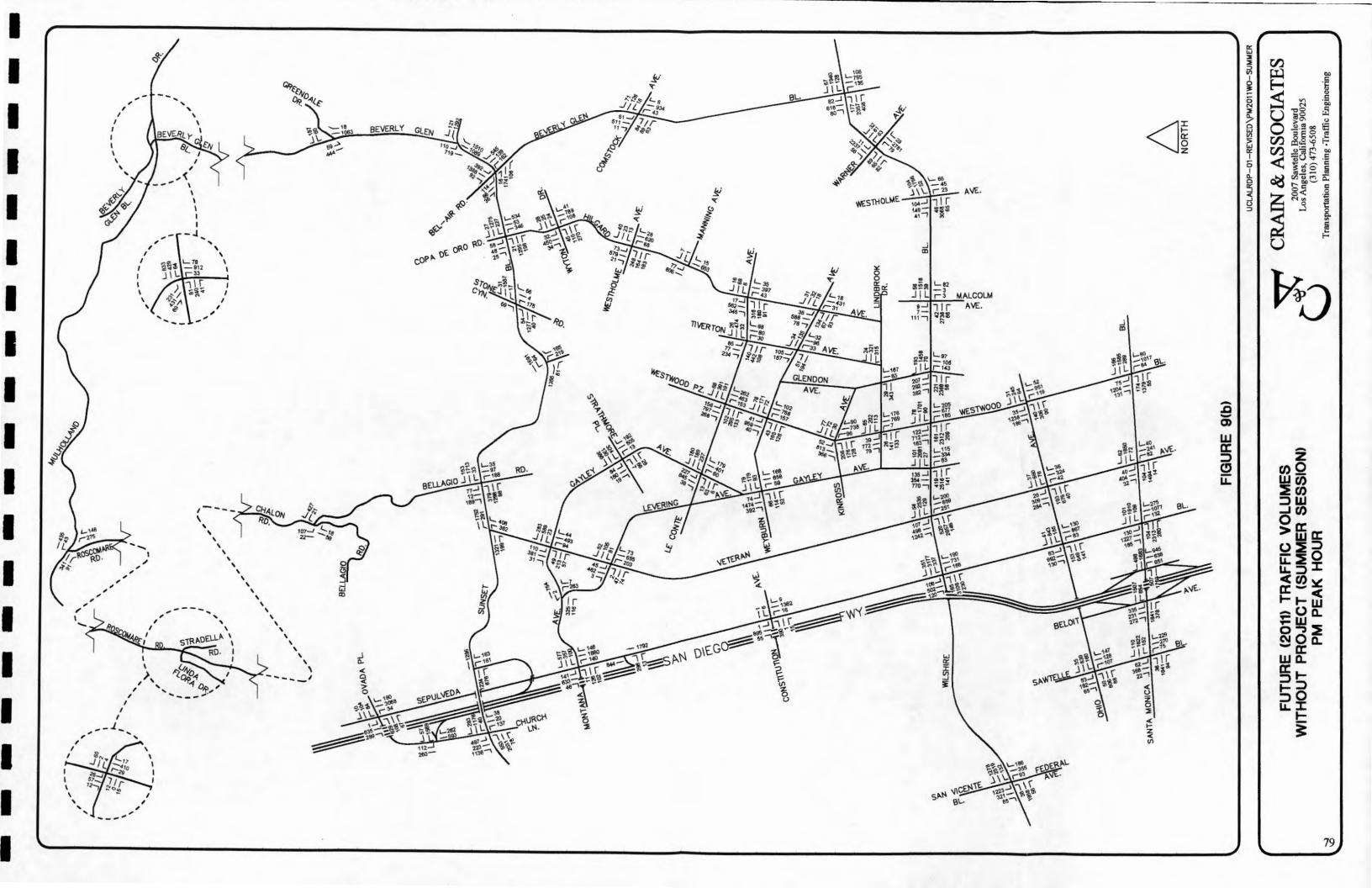
Permit Group	Number	Daily Trips	AM Peak Hour Trips	PM Peak Hour Trips
Faculty & Staff-Medical Center	5,617	7,604	959	985
Faculty & Staff-Other University	13,074	21,903	1,920	2,547
Resident Students				
Undergraduate	715	363	5	30
Graduate	599	574	55	60
Not Enrolled/Employed Off-	1,401	4,694	392	560
Campus Day's Conference Attendees	1,395	1,135	16	94
Commuter Students				
Student Academic Employee	2,049	2,486	259	303
Other Commuter Students	7,710	6,558	435	589
Quarterly Guest/Emeritus Permits	5,671	9,670	1,021	505
University Extension Permits	5,336	9,099	0	0
Daily Permit Sales	6,155	18,768	1,083	948
Other Parking Two-Wheeled/Through/Drop-Off		3,931	85	328
Vehicles		22,042	1,345	1,169
Shuttles Main/Southwest Campus		<u>2,948</u> 111,775	<u>229</u> 7,804	<u>245</u> 8,363
Wilshire Center	950	1,768	<u>155</u>	206
Cordon Total		113,543	7,959	8,569

To estimate future traffic volumes for the year 2011 (without implementation of the 2002 LRDP), a future traffic scenario was then developed that added forecast traffic growth (from the greater of SCAG socioeconomic data and related projects) to existing traffic volumes. The resulting traffic volumes (for the year 2011) reflect the expected future "Without Project" conditions, which are shown in Figures 8 and 9. These volumes represent ambient traffic growth and cumulative development in the study area and provide a future "baseline" against which the effects of project-related traffic (from the 2002 LRDP) can be determined.









## FUTURE "WITH 2002 LRDP" CONDITIONS

#### Changes in Campus Population

Implementation of the 2002 LRDP would result in increases in the campus population, during both the regular session and summer session. The concurrently proposed development of the Northwest Campus Housing Infill project would increase the number of on-campus resident students. The net effects of those changes were described in the Project Description.

#### Future Campus Parking Demand

Because implementation of the 2002 LRDP would result in an increase in student enrollment and the total campus population (including faculty, staff, and campus visitors), demand for parking would also increase. An analysis of potential demand was conducted to determine whether projected future demand could be accommodated within the parking cap established by the 1990 LRDP. This analysis included an assessment of the permit demand associated with projected increases in faculty/staff and other individuals (e.g., emeritus faculty, visitors and medical patients) using current (Year 2001) parking permit demand ratios (from Table 4(c)). Then it was assumed that the campus could increase the on-campus parking inventory (during the planning horizon of the 2002 LRDP) to 25,169 spaces (the maximum permitted under the parking space cap established in the 1990 LRDP) as shown in Table 18. Given parking demand for faculty, staff, on-campus residents, and other permits (e.g., guest, emeritus faculty and visitors), the future number of on-campus parking spaces that would be available for commuter students was estimated. The results of this analysis is shown in Table 18, which indicates that approximately 3,849 on-campus parking spaces would be available to meet commuter student demand, which would correspond to approximately 6,521 student parking permits. It was determined that future parking demand associated with implementation of the 2002 LRDP can be accommodated within the 1990 LRDP parking cap of 25,169 on-campus spaces.

## Table 18 Future On-Campus Parking Allocation With 2002 LRDP

		Parking	
Permit Group	Number	Permits	Spaces
Faculty & Staff-Medical Center	6,159	5,104	3,543
Faculty & Staff-Other University	14,339	11,247	7,868
Resident Students			
Undergraduate	9,009	1,031	667
Graduate	2,000	1,917	1,917
Not Enrolled/Employed Off-Campus	0	0	0
Commuter Students			
Student Academic Employee	3,573	2,300	1,605
Other Commuter Students	21,863	6,521	3,849
Other Permits			
Quarterly Guest/Emeritus Permits	6,207	6,207	2,711
University Extension Permits	5,336	5,336	0
Daily Permit Sales	7,109	7,109	2,461
Other Parking			548
Total Spaces			25,169

Using the space and permit allocations and the population for each user group, future

parking ratios can be developed, as shown in Table 19.

## Table 19 Future Parking Ratios With Proposed 2002 LRDP

	Permits Per	Spaces Per
Permit Group	Person	Person
Faculty & Staff-Medical Center	0.829	0.575
Faculty & Staff-Other University	0.784	0.549
Resident Students		
Undergraduate	0.114	0.074
Graduate	0.959	0.959
Not Enrolled/Employed Off-Campus	0.959	0.959
Commuter Students		
Student Academic Employee	0.644	0.449
Other Commuter Students	0.298	0.176
Other Permits		
Quarterly Guest/Emeritus Permits	1.000	0.437
University Extension Permits	1.000	0.000
Daily Permit Sales	1.000	0.346

Table 19 indicates that future parking permit ratios would remain the same as current conditions, except for commuter students, which would increase slightly from the current 0.283 permits per student to a future ratio of 0.298 permits per student. Because the

student parking ratio would increase slightly and most new regular session students would be residents, the student waiting list for parking would remain about constant. Thus, the student waiting list for parking would be expected to continue to exist since the slight increase in total permits is much smaller than the Fall quarter waiting list of over 3,000 students.

#### **Future Campus Trip Generation**

Future trip generation for the campus was estimated by adjusting the future "without project" trip rates (shown in Table 16) to account for the effects of the 2002 LRDP, including an increase in campus population [shown in Tables 1(a) and 1(b) in the project description] and an increase in on-campus resident students (associated with the concurrently-proposed Northwest Housing Infill project). The net effect of the LRDP would be an increase in the faculty/staff headcount of 1,895, student headcount of 2,135 (of which approximately 1,675 would represent an increase in students who reside on-campus), and 1,446 other individuals (e.g., visitors, patients, etc). With implementation of the 2002 LRDP, summer enrollment would increase by approximately 6,550 students, of which approximately 3,772 would be on campus on an average weekday.

The Future "Without Project" trip generation rates (for year 2011, shown in Table 16) were updated to reflect the effect of the 2002 LRDP, which would only result in a change to the commuter student trip rate. (Because the number of parking spaces available to students would be increased compared to current conditions, the per-person permit ratio, and therefore the per-person trip ratio would increase. All other parking permit allocation ratios are assumed to remain the same.) The result of this modification is shown in Table 20, Future On-Campus Trip Generation Rates.

		<b>Regular Ses</b>	sion	-	Summer Ses	sion
	Delle	AM Peak	PM Peak		AM Peak	PM Peak
Permit Group	Daily	Hour	Hour	Daily	Hour	Hour
Faculty & Staff-Medical Center	1.504	0.190	0.195	1.354	0.171	0.175
Faculty & Staff-Other University	1.861	0.163	0.216	1.675	0.147	0.195
Resident Students						
Undergraduate	0.186	0.003	0.015	0.508	0.007	0.042
Graduate	0.959	0.091	0.101	0.958	0.091	0.101
Not Enrolled/Employed Off-						
Campus	N/A	N/A	N/A	3.350	0.280	0.400
Day's Conference Attendees	N/A	N/A	N/A	0.814	0.011	0.068
Commuter Students						
Student Academic Employee	1.348	0.141	0.165	1.214	0.127	0.148
Other Commuter Students	0.674	0.045	0.061	0.885	0.059	0.079
Quarterly Guest/Emeritus Permits	1.705	0.180	0.089	1.705	0.180	0.089
University Extension Permits	1.705	0.000	0.000	1.705	0.000	0.000
Daily Permit Sales	3.049	0.176	0.154	3.049	0.176	0.154

## Table 20 Future (With 2002 LRDP) On-Campus Trip Generation Rates

Using the future generation rates, and the proposed future allocation of parking (shown in Table 20), an estimate of how each population group would contribute to overall campus trip generation (with implementation of the 2002 LRDP) was developed, which is provided in Table 21(a). This breakdown also includes estimates for certain campus uses, such as Campus shuttle buses (which are assumed to be the same as for current conditions) and a single line entry that covers two-wheeled vehicles, through traffic and drop-offs.

## Table 21(a) Future (With 2002 LRDP) Campus Trip Generation (Regular Session)

Permit Group	Number	Daily Trips	AM Peak Hour Trips	PM Peak Hour Trips
Faculty & Staff-Medical Center	6,159	9,264	1,169	1,199
Faculty & Staff-Other University	14,339	26,690	2,339	3,104
Resident Students				
Undergraduate	9,009	1,678	24	139
Graduate	2,000	1,917	182	201
Not Enrolled/Employed Off-Campus	0	0	0	0
Commuter Students				
Student Academic Employee	3,573	4,816	503	588
Other Commuter Students	21,863	14,736	978	1,324
Quarterly Guest/Emeritus Permits	6,207	10,584	1,117	552
University Extension Permits	5,336	9,099	0	0
Daily Permit Sales	7,109	21,677	1,251	1,095
Other Parking Two-Wheeled/Through/Drop-off		3,931	85	328
Vehicles		22,042	1,345	1,169
Shuttles		2,948	229	245
Main/Southwest Campus		129,382	9,222	9,944
Wilshire Center	950	1,768	155	206
Cordon Total		131,150	9,377	10,150

For an estimate of future summer trips [shown in Table 21(b)], 90 percent of the generation rates for regular session were used for the faculty and staff. The reduction accounts for faculty with nine-month appointments who don't conduct research on campus during the summer, and similarly lower employment levels for certain staff (e.g., food service employees). The lower number of student trips (compared to regular session) reflects the fewer number of students that are on-campus during the summer.

Table 21(b)	
Future (With 2002 LRDP) Campus Trip Generation	
(Summer Session)	

Permit Group	Number	Daily Trips	AM Peak <u>Hour Trips</u>	PM Peak Hour Trips
Faculty & Staff-Medical Center	6,159	8,337	1,052	1,079
Faculty & Staff-Other University	14,339	24,021	2,105	2,794
Resident Students				
Undergraduate	878	446	6	37
Graduate	716	686	65	72
Not Enrolled/Employed Off- Campus	1,284	4,302	360	514
Day's Conference Attendees	1,713	1,395	20	116
Commuter Students				
Student Academic Employee	2,401	2,914	304	356
Other Commuter Students	11,057	9,787	650	879
Quarterly Guest/Emeritus Permits	6,207	10,584	1,117	552
University Extension Permits	5,336	9,099	0	0
Daily Permit Sales	7,109	21,677	1,251	1,095
Other Parking		3,931	85	328
Two-Wheeled/Through/Drop-off				
Vehicles		22,042	1,345	1,169
Shuttles		2,948	229	245
Main/Southwest Campus		122,169	8,589	9,236
Wilshire Center	950	1,768	155	206
Cordon Total		123,937	8,744	9,442

\* This includes graduate students who are not enrolled in summer session and are assumed to be employed off-campus.

As shown in Table 21, with implementation of the 2002 LRDP, future trip generation for both the regular and summer session would remain below the cap of 139,500 average daily trips established by the 1990 LRDP.

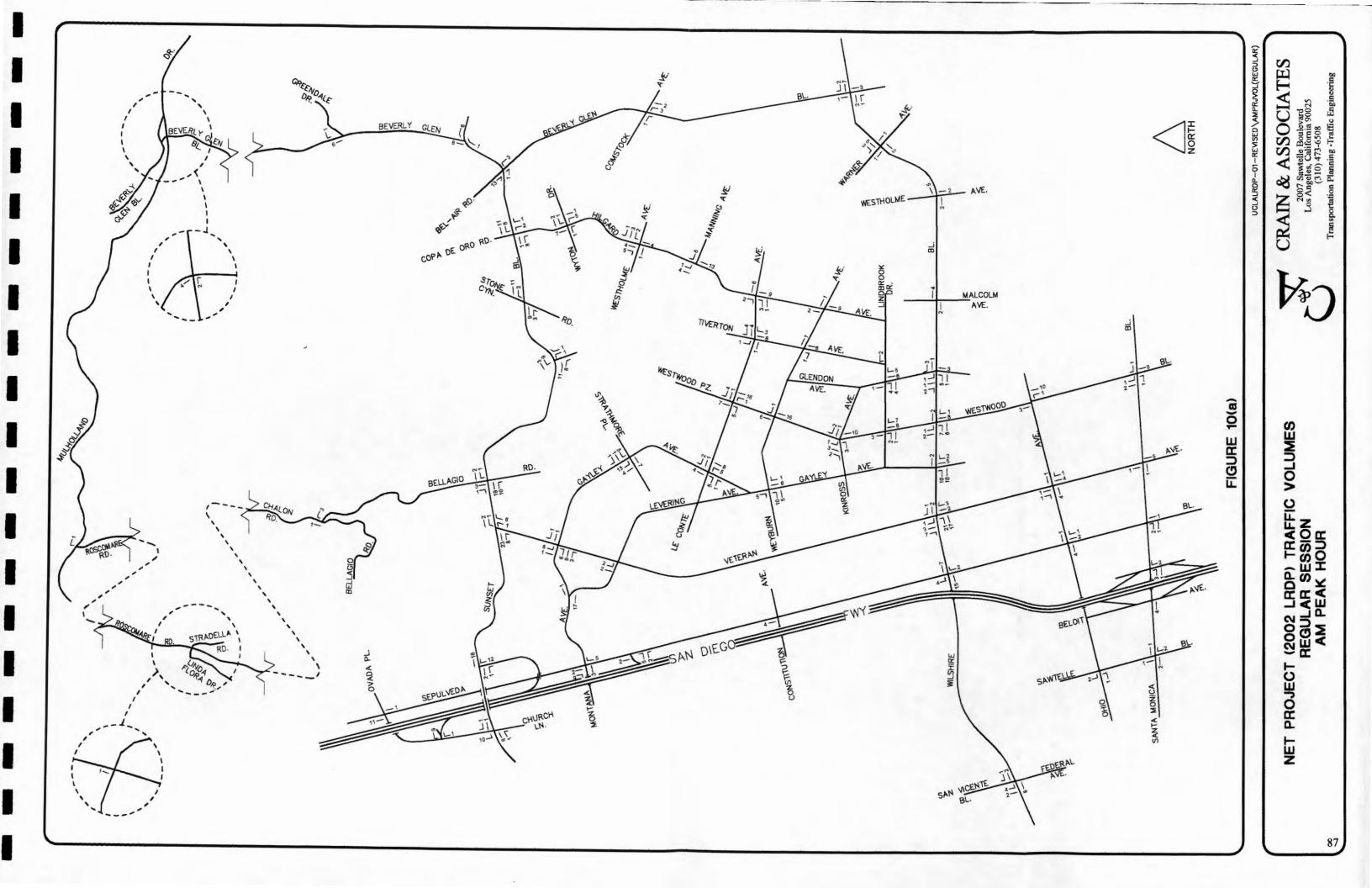
By comparing the increase in trip generation between the "Without Project" and "With 2002 LRDP" scenarios, the net increase in traffic volumes associated with implementation of the 2002 LRDP was identified, and are shown in Figures 10 (a) and (b) (AM and PM peak hour for the regular session) and Figures 11 (a) and (b) (AM and PM peak hour for summer session). As these figures show, implementation of the 2002 LRDP would result in small increases in traffic volumes at the study intersections during the regular session. Larger net increases would occur during summer session (due to the larger increase in student enrollment, compared to current summer enrollment), however those increases would

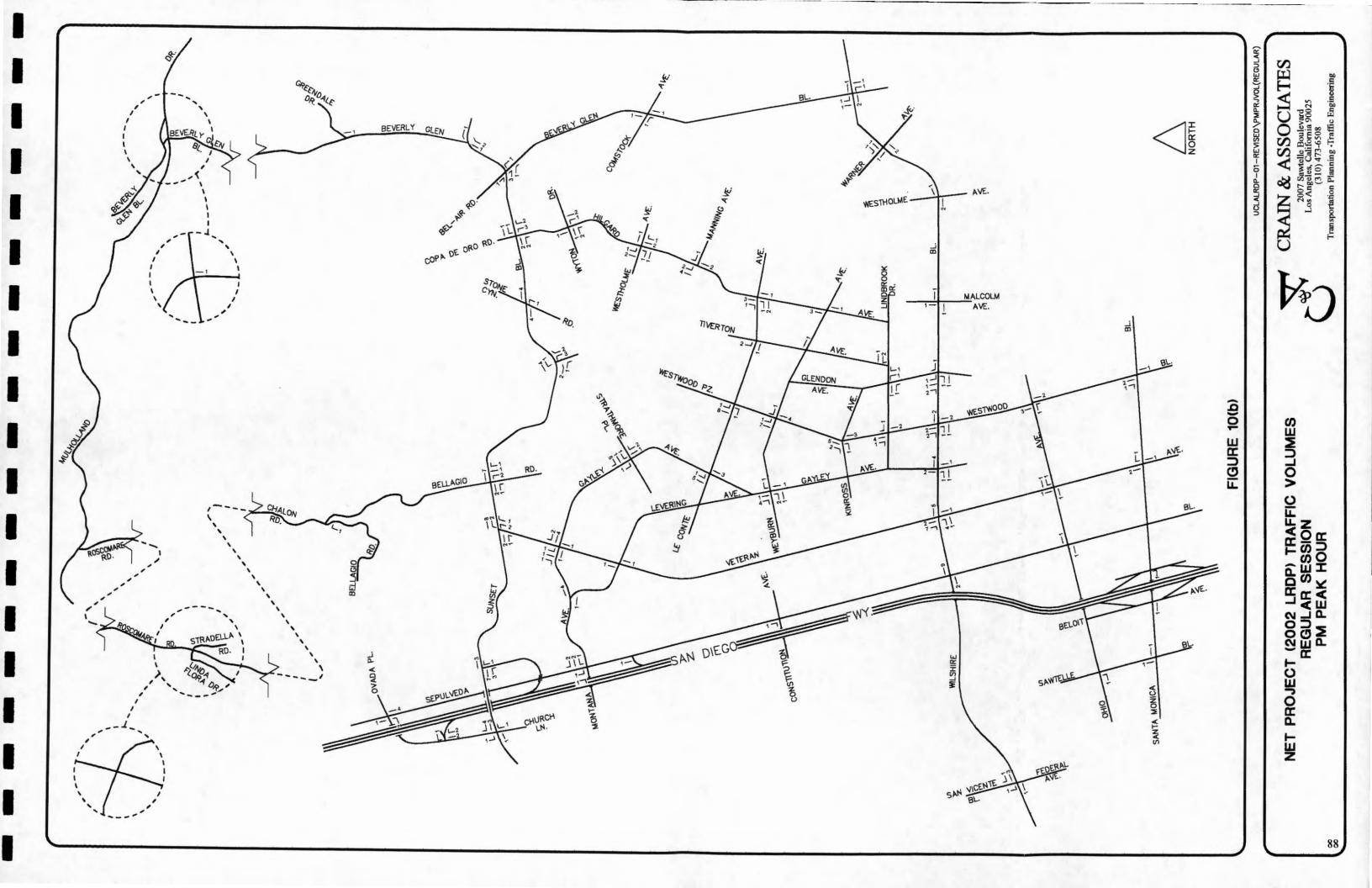
occur during the summer, when overall traffic volumes are substantially lower at the study intersections (than during regular session). By adding the peak hour traffic volumes (associated with implementation of the 2002 LRDP, shown in Figures 10 and 11) to the projected future traffic "Without Project" volumes for the year 2011 (shown in Figures 8 and 9), future total traffic volumes (that would occur with full implementation of the proposed 2002 LRDP) can be estimated, as shown in Figure 12 (AM and PM peak hour for regular session) and Figure 13 (AM and PM peak hour for summer session).

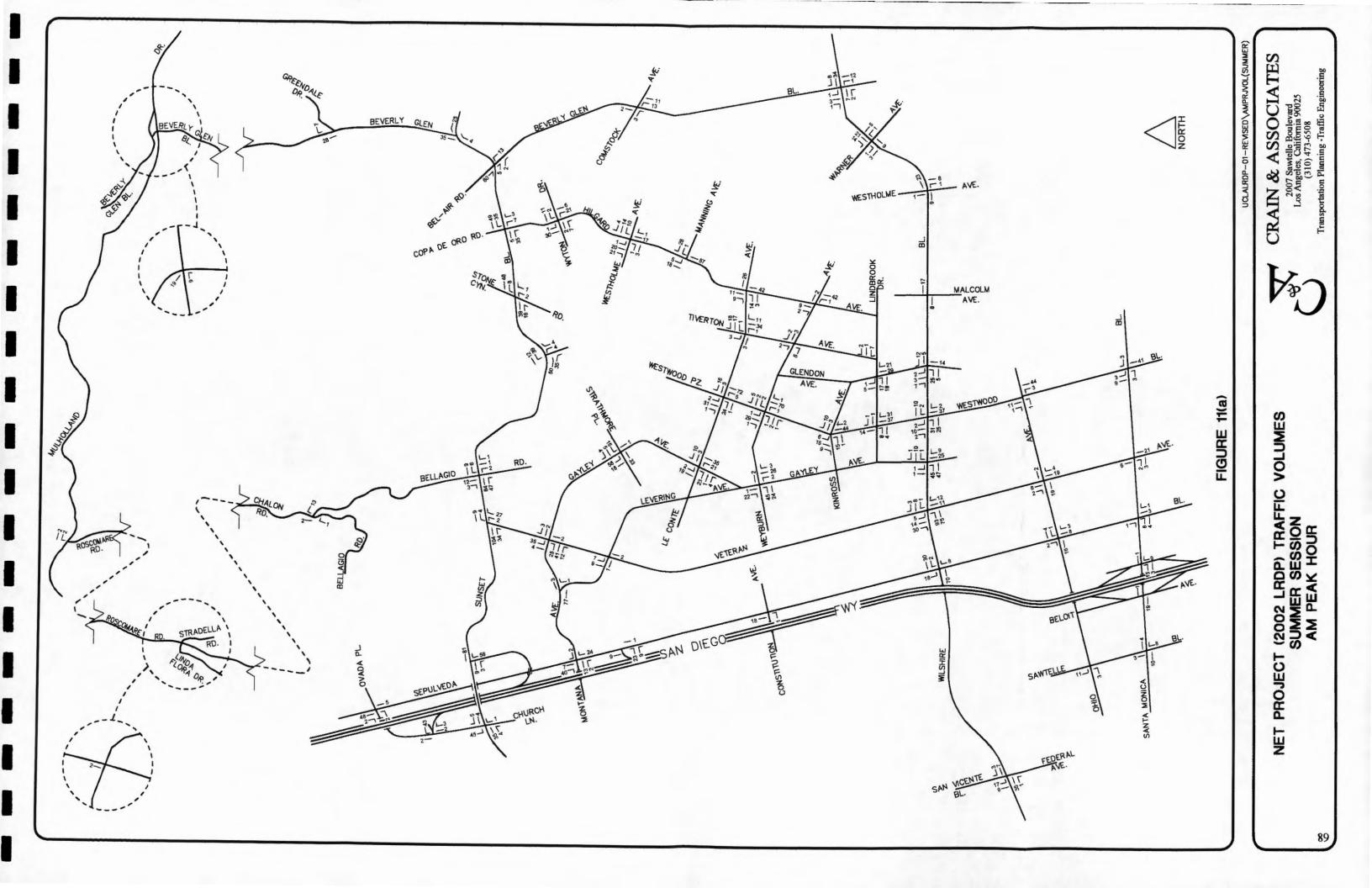
#### Alternative Transportation Impacts

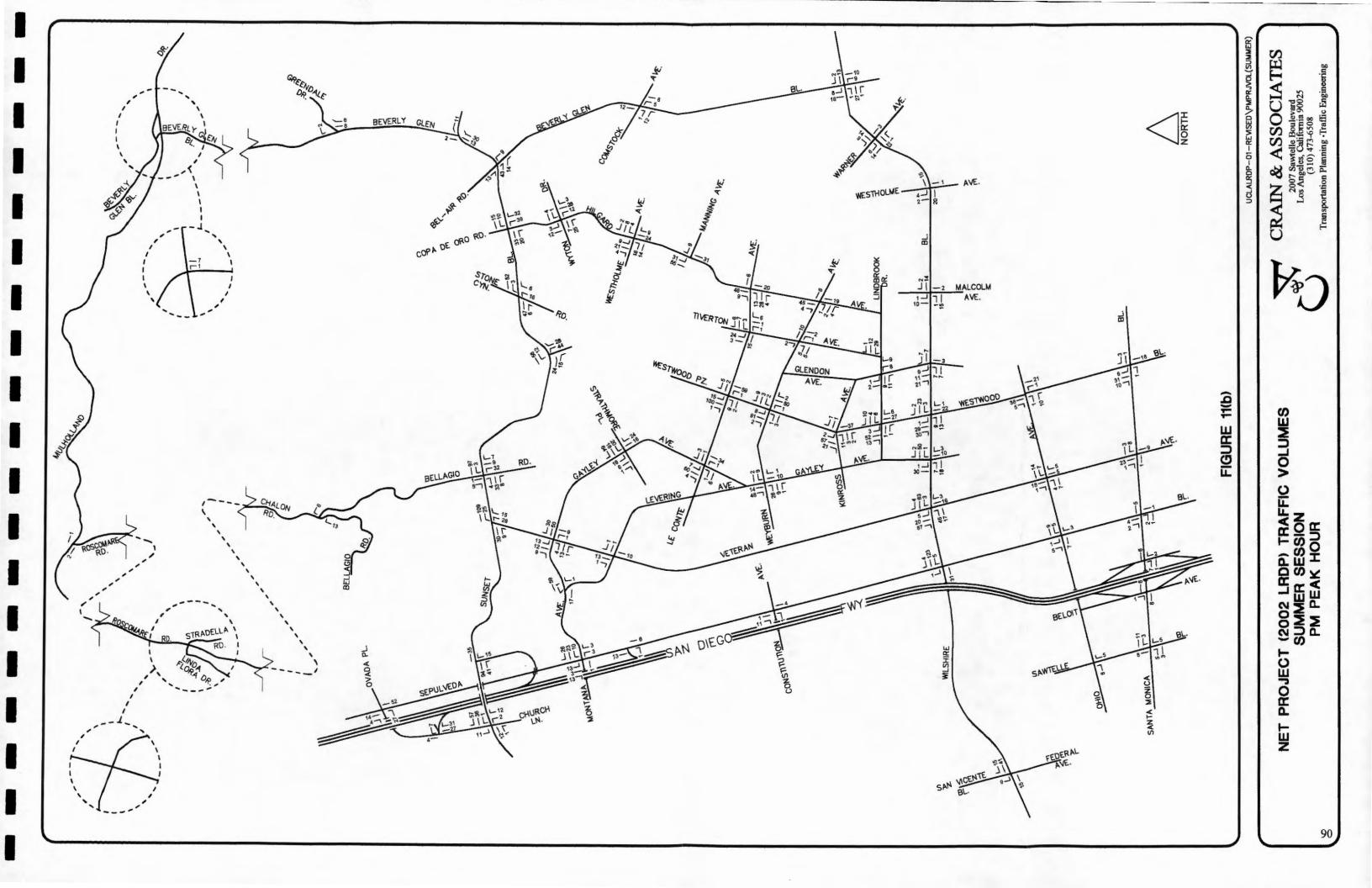
As discussed above in the Environmental Setting section, UCLA currently operates a range of Transportation Demand Management programs, including vanpools, carpools, shuttle buses and support for other modes. Services are provided to all commuters, especially those without parking permits, by the Commuter Assistance-Rideshare ("CAR") office. The CAR office has achieved a ridesharing rate which meets the existing trip caps, parking cap and SCAQMD AVR goals. This study assumes that these goals will continue to be met under the 2002 LRDP. In addition, the UCLA campus is served by 19 bus lines operated by six public transit operators.

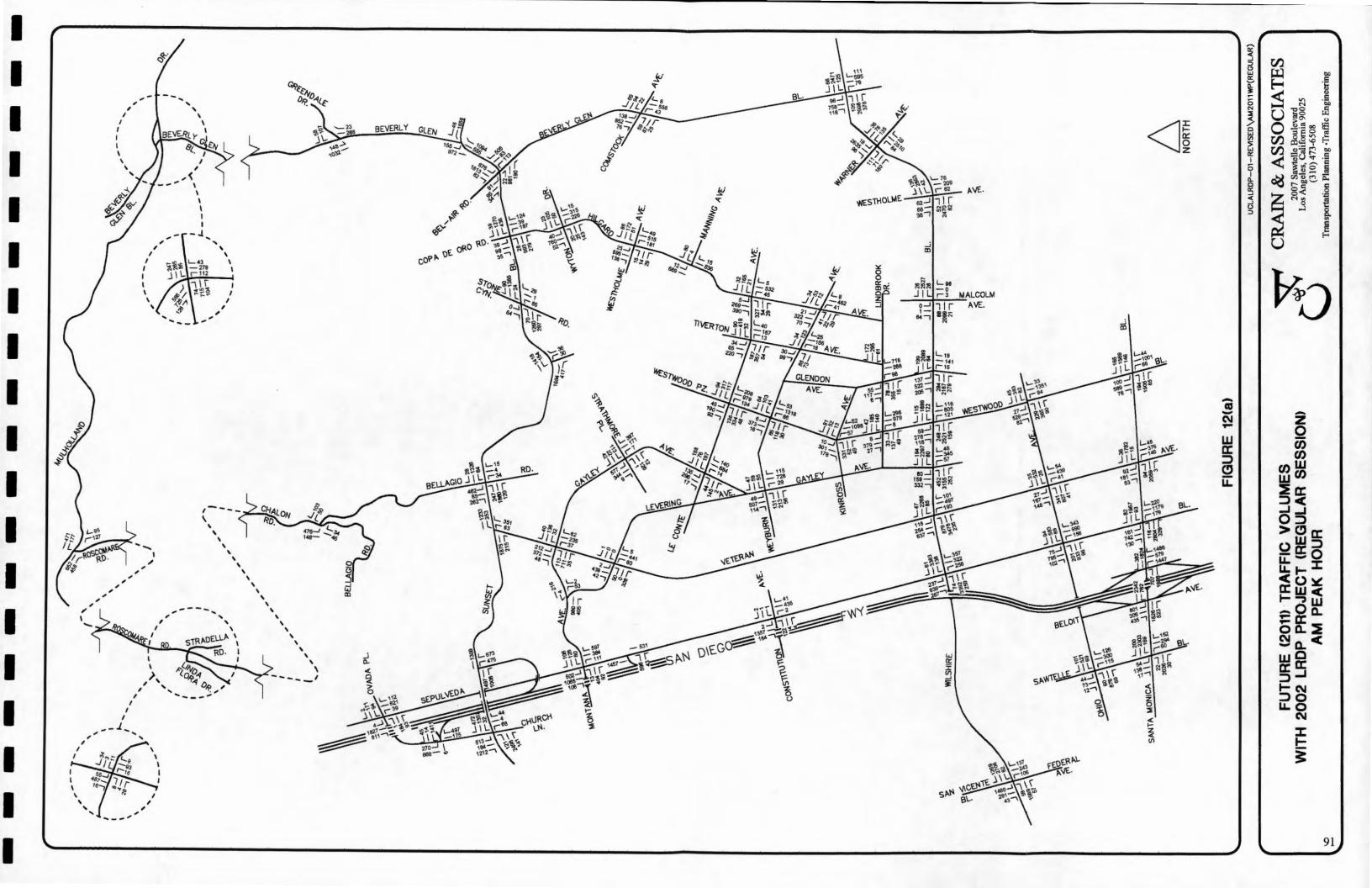
As shown in Table 22(a), there are currently about 45,579 commuters who are employed or are non-resident students at UCLA. There are 23,917 parking permits issued to these commuters, or approximately half of the total commuters. The remainder (approximately 21,662 persons) must utilize an alternative mode to travel to and from campus, including vanpools, buses, walking, bicycling, or other alternative means.

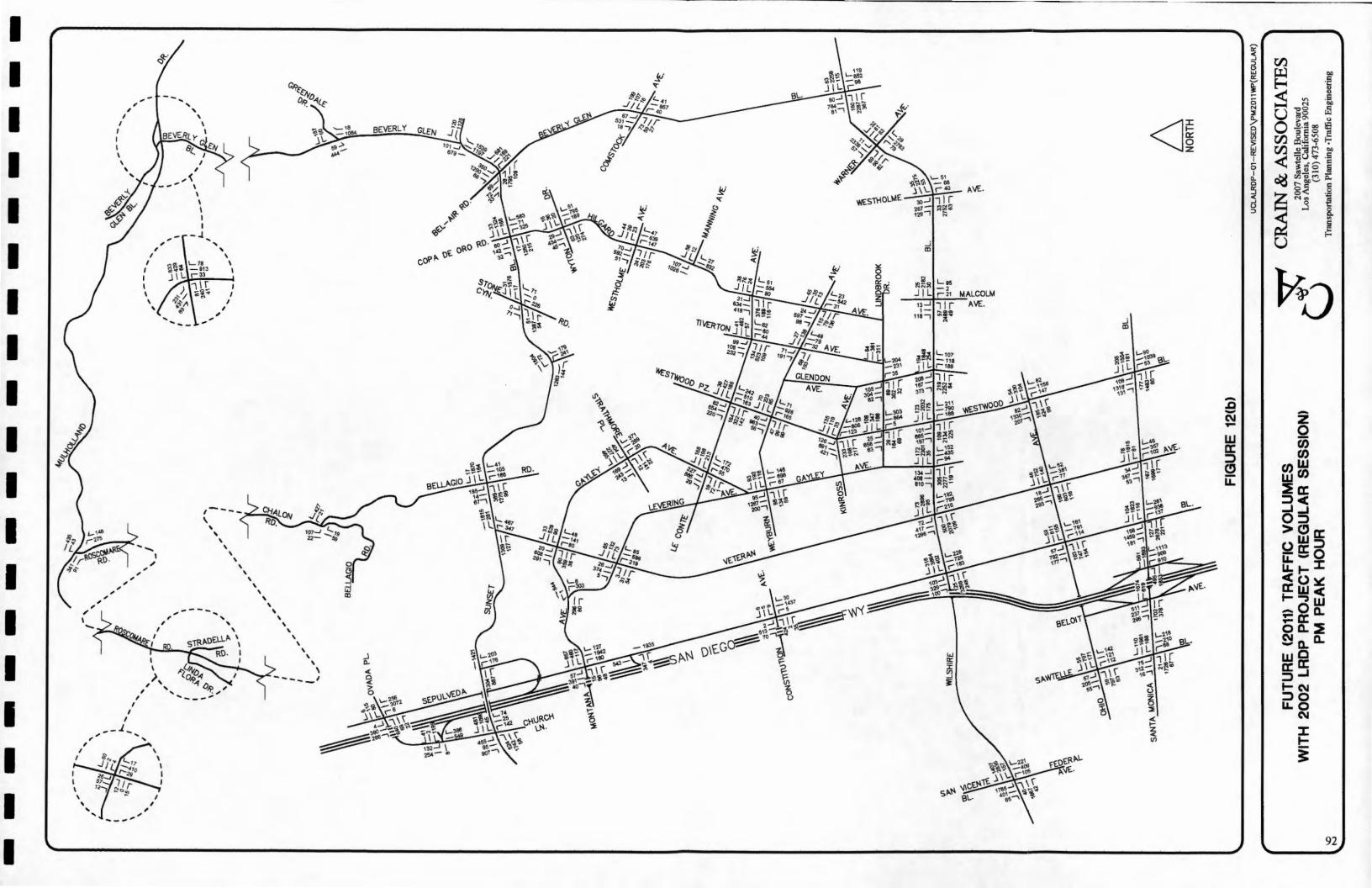


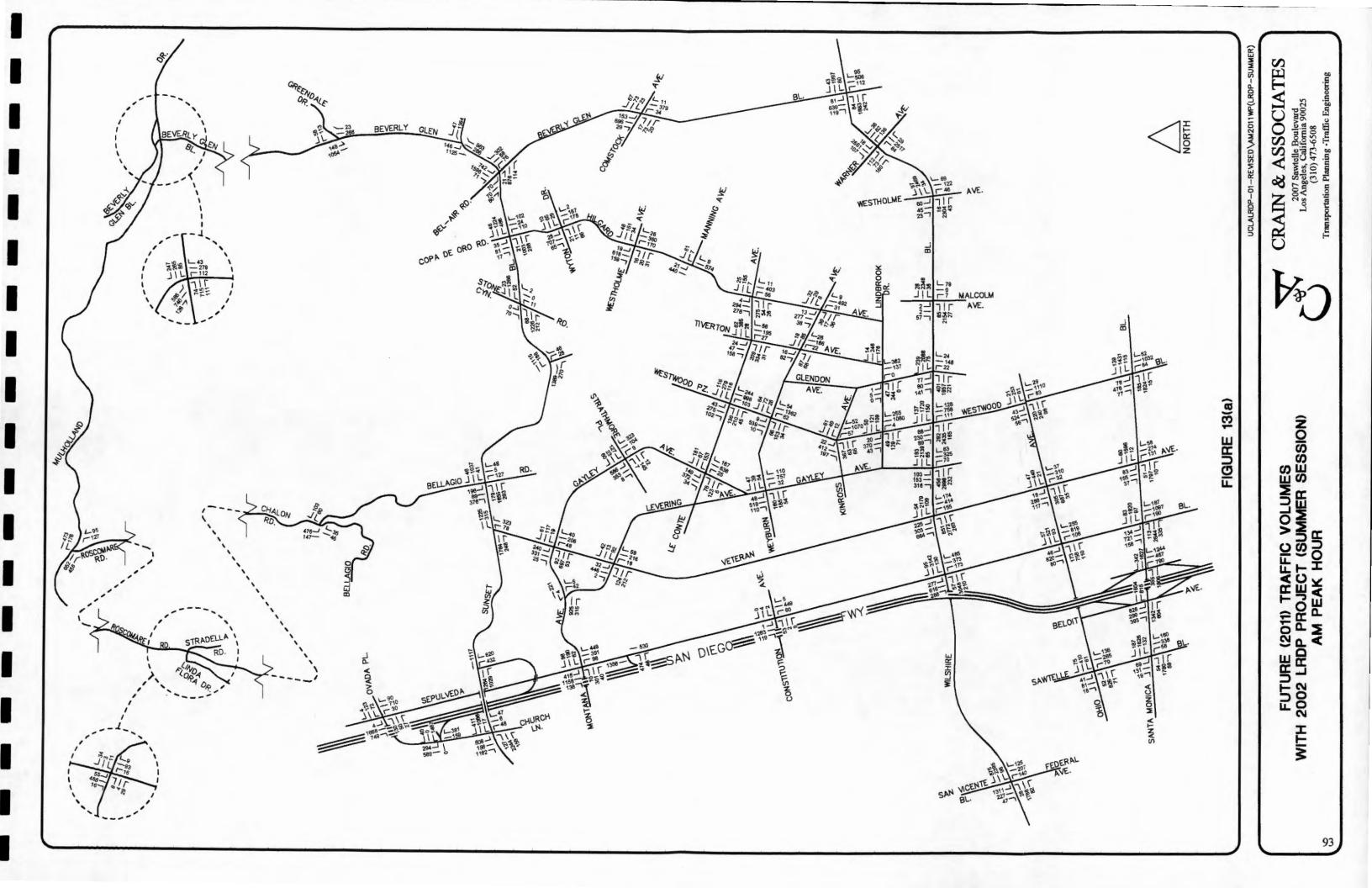


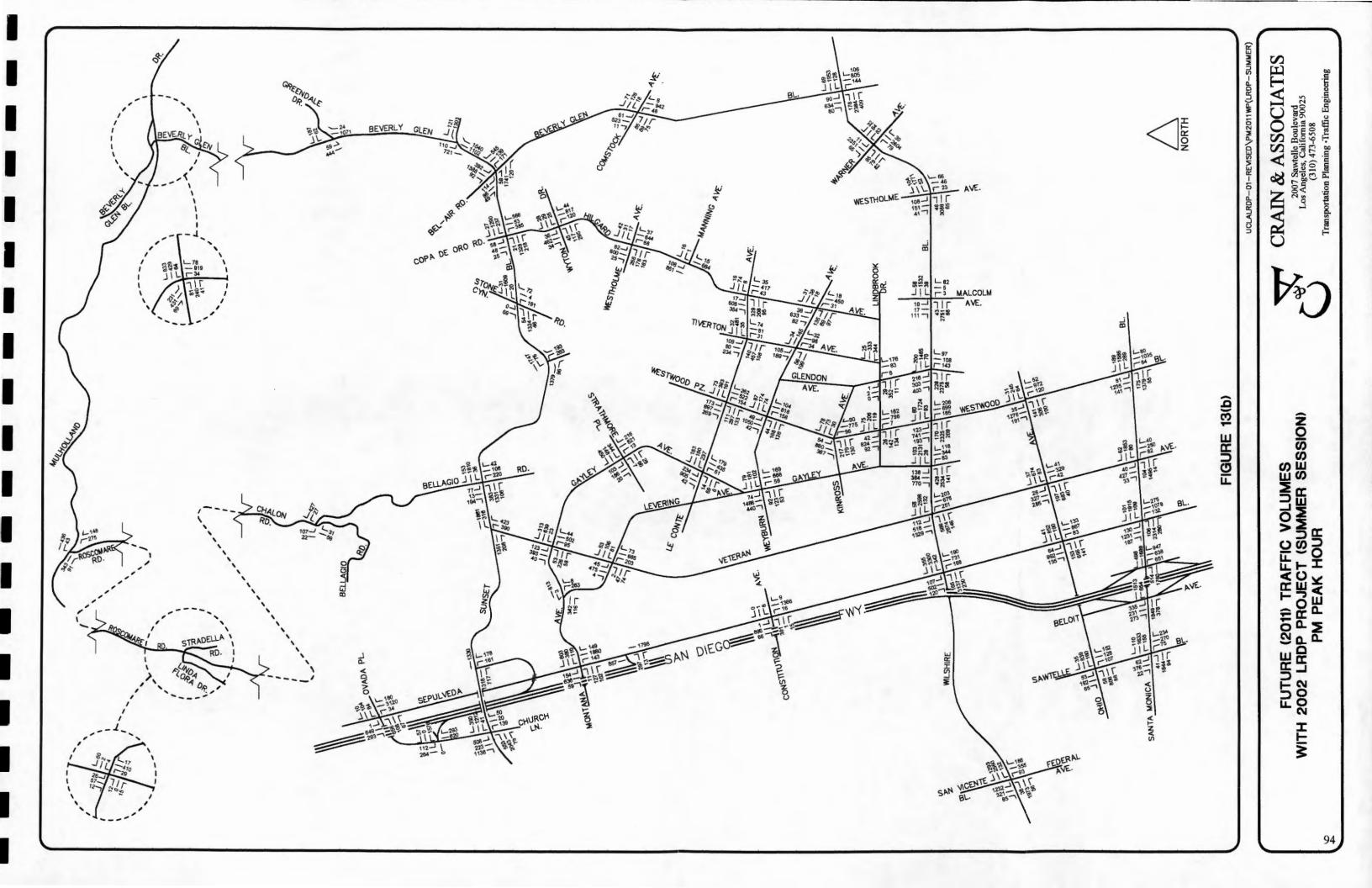












With implementation of the 2002 LRDP, as shown in Table 22(c), the future number of commuters without parking will increase by approximately 3,463 commuters compared to the future without project condition. However, the future number of commuters without parking would decrease by approximately 891 commuters compared to the current condition due to the combined effect of the (previously approved) Southwest Campus Graduate Student Housing project, parking increases such as the Intramural Field Parking Structure and the proposed Northwest Campus Housing Infill Project. Therefore, implementation of the 2002 LRDP would have a less than significant cumulative impact on alternative transportation modes as there would not be a net increase in UCLA ridership causing the capacity of any route to be exceeded.

# Table 22(a) Current Commuters

Group	Number	Parking Permits	Other Commuters
Faculty & Staff	18,603	14,841	3,762
Commuter Students	26,976	9,076	17,900
Total	45,579	23,917	21,662

#### Table 22(b)

## Future (2011) Commuters -- Without Project

Group	Number	Parking Permits	Other Commuters
Faculty & Staff	18,691	14,910	3,781
Commuter Students	24,976	11,449	13,527
Total	43,667	26,359	17,308

#### Table 22(c)

## Future (2011) Commuters -- With Proposed 2002 LRDP

Group	Number	Parking Permits	Other Commuters
Faculty & Staff	20,498	16,351	4,147
<b>Commuter Students</b>	25,436	8,812	16,624
Total	45,934	25,172	20,771

#### Intersection Impacts

By adding the estimated traffic volumes (that would result from implementation of the 2002 LRDP) to the future (Without Project) traffic volumes (shown in Figures 8 and 9), future traffic volumes that would occur with implementation of the 2002 LRDP were estimated (and are shown in Figures 12 and 13). For these traffic volumes, a Critical Movement Analysis was conducted to identify future Levels of Service (for the year 2011) and thereby identify the impacts associated with implementation of the 2002 LRDP. Summaries of the CMA and LOS "Without Project" and "With Proposed 2002 LRDP" conditions at the 58 study intersections are shown in Tables 23 and 24. These tables also include the existing (2001) CMA conditions (from Tables 11 and 12) to permit comparison of current and future conditions, and thereby show the effects of cumulative traffic growth on the study area roadway network (which will occur even without implementation of the 2002 LRDP).

As summarized in Tables 23 and 24, with projected future traffic conditions, implementation of the 2002 LRDP would significantly impact five of the 58 study intersections during the regular session and 25 of the 58 study intersections during the summer session. Although more intersections would be impacted during the summer session, traffic conditions are generally better in the summer than during the regular session because traffic volumes at the study intersections are substantially lower, as shown in Tables 25 and 26.

# Table 23

## Critical Movement Analysis Summary Existing and Future Conditons (Regular Session)

			Peak	Exis	ting	Futu Without		w	Future ith Pro	
lo	Intersection	Hour	CMA	LOS	CMA	LOS	CMA	LOS	Impact	
1.	Church Ln./Ovada Pl. and	AM	0.925	E	0.805	D	0.808	D	0.003	
1.	Sepulveda Blvd.	PM	0.960	E	1.158	F	1.160	F	0.002	
2.	San Diego Fwy. S/B On/Off Ramps and	AM	0.950	Е	0.629	В	0.633	в	0.004	
	Church Ln.	PM	0.953	Е	0.589	А	0.590	Α	0.001	
	Sunset Blvd. and	AM	0.884	D	0.902	Е	0.902	Е	0.000	
	Church Ln.	PM	0.814	D	0.844	D	0.844	D	0.000	
ŀ.	Sunset Blvd. and	AM	0.823	D	0.777	С	0.781	С	0.004	
	San Diego Fwy. N/B On/Off-Ramps	PM	0.544	Α	0.553	A	0.555	A	0.002	
	Sunset Blvd. and	AM	0.892	D	0.913	E	0.925	Е	0.012	
	Veteran Ave.	PM	0.820	D	0.840	D	0.845	D	0.005	
i.	Sunset Blvd. and	AM	0.941	E	0.971	Е	0.982	Е	0.011	
	Bellagio Wy.	PM	1.008	F	1.063	F	1.067	F	0.004	
	Sunset Blvd. and	AM	0.599	Α	0.604	в	0.614	в	0.010	
	Westwood Blvd.	PM	0.609	В	0.624	В	0.626	В	0.002	
	Sunset Blvd. and	AM	0.505	А	0.504	А	0.508	А	0.004	
	Stone Canyon Rd.	PM	0.604	В	0.616	В	0.618	В	0.002	
	Sunset Blvd. and	AM	0.833	D	0.850	D	0.859	D	0.009	
	Hilgard Ave./Copa De Oro Rd.	PM	0.851	D	0.901	E	0.905	E	0.004	
).	Sunset Blvd. and	AM	1.001	F	1.026	F	1.028	F	0.002	
	Beverly Glen Blvd.	PM	1.066	F	1.124	F	1.125	F	0.001	
1.	Sunset Blvd. (East I/S) and	AM	1.039	F	1.066	F	1.071	F	0.005	
	Beverly Glen Blvd.	PM	1.087	F	1.205	F	1.205	F	0.000	
2.	San Diego Fwy. N/B Off-Ramp and	AM	0.506	Α	0.470	Α	0.473	Α	0.003	
	Sepulveda Blvd.	PM	0.564	А	0.487	A	0.487	Α	0.000	
3.	Montana Ave. and	AM	0.931	Е	1.081	F	1.086	F	0.005	
	Sepulveda Blvd.	PM	0.890	D	0.874	D	0.876	D	0.002	
4.	Montana Ave. and	AM	1.012	F	1.188	F	1.202	F	0.014	
	Levering Ave.	PM	0.837	D	0.957	E	0.961	E	0.004	
5.	Montana Ave./Gayley Ave. and	AM	0.866	D	0.952	E	0.970	Е	0.018	
	Veteran Ave.	PM	0.999	E	1.085	F	1.091	F	0.006	
5.	Strathmore PI. and	AM	0.697	в	0.736	С	0.751	С	0.015	
	Gayley Ave.	PM	0.625	В	0.712	С	0.715	С	0.003	
7.	Levering Ave. and	AM	0.491	А	0.540	А	0.543	Α	0.003	
	Veteran Ave.	PM	0.637	В	0.743	С	0.744	С	0.001	
3.	Wyton Dr. and	AM	0.427	Α	0.475	А	0.483	А	0.008	
	Hilgard Ave.	PM	0.300	A	0.361	Α	0.363	A	0.002	
9.	Wyton Dr./Comstock Ave. and	AM	0.782	С	0.830	D	0.832	D	0.002	
	Beverly Glen Blvd.	PM	0.787	С	0.836	D	0.837	D	0.001	
D.	Westholme Ave. and	AM	0.450	Α	0.504	А	0.511	А	0.007	
	Hilgard Ave.	PM	0.469	Α	0.551	Α	0.554	Α	0.003	

# Table 23 (cont.)Critical Movement Analysis SummaryExisting and Future Conditons (Regular Session)

		Peak	Exis	ting	Futu Without		W	Future /ith Pro	
No	Intersection	Hour	CMA	LOS	CMA	LOS	CMA	LOS	Impact
21.		AM	0.273	A	0.288	A	0.296	A	0.008
21.	Hilgard Ave.	PM	0.320	A	0.341	A	0.344	A	0.003
22.	Le Conte Ave. and	AM	0.646	в	0.699	в	0.705	С	0.006
	Gayley Ave.	PM	0.548	Ā	0.583	A	0.585	A	0.002
23	Le Conte Ave. and	AM	0.602	в	0.651	в	0.658	в	0.007
20.	Westwood Blvd.	PM	0.572	A	0.647	в	0.651	В	0.004
24.	Le Conte Ave. and	AM	0.315	A	0.372	A	0.380	А	0.008
	Tiverton Dr.	PM	0.297	A	0.362	А	0.363	А	0.001
25.	Le Conte Ave. and	AM	0.543	А	0.602	в	0.614	в	0.012
	Hilgard Ave.	PM	0.621	в	0.716	С	0.717	С	0.001
26.	Weyburn Ave. and	AM	0.421	А	0.406	А	0.414	А	0.008
	Gayley Ave.	PM	0.691	в	0.659	В	0.663	В	0.004
27.	Weyburn Ave. and	AM	0.428	A	0.499	А	0.504	А	0.005
	Westwood Blvd.	PM	0.459	A	0.587	А	0.592	Α	0.005
28.	Weyburn Ave. and	AM	0.327	А	0.383	А	0.392	Α	0.009
	Tiverton Dr.	PM	0.378	А	0.463	А	0.463	Α	0.000
29.	Weyburn Ave. and	AM	0.356	А	0.375	А	0.381	А	0.006
	Hilgard Ave.	PM	0.525	A	0.641	В	0.643	В	0.002
30.	Kinross Ave. and	AM	0.407	А	0.639	в	0.645	В	0.006
	Westwood Blvd.	PM	0.705	С	1.005	F	1.009	F	0.004
31.	Lindbrook Dr. and	AM	0.369	А	0.387	А	0.391	А	0.004
	Westwood Blvd.	PM	0.431	A	0.451	A	0.452	A	0.001
32.	Lindbrook Dr. and	AM	0.599	A	0.653	В	0.660	В	0.007
	Tiverton Ave.	PM	0.525	Α	0.577	A	0.581	A	0.004
33.		AM	0.415	A	0.360	A	0.361	Α	0.001
	Sepulveda Blvd.	PM	0.590	A	0.571	A	0.571	A	0.000
34.	Wilshire Blvd. and	AM	1.006	F	1.107	F	1.109	F	0.002
	San Vicente Blvd.	PM	1.142	F	1.270	F	1.270	F	0.000
35.		AM	1.056	F	1.162	F	1.165	F	0.003
	Sepulveda Blvd.	PM	1.065	F	1.152	F	1.152	F	0.000
36.	Wilshire Blvd. and	AM	0.934	E	0.977	E	0.987	E	0.010
	Veteran Ave.	PM	1.361	F	1.243	F	1.248	F	0.005
37.		AM	0.689	В	0.757	C	0.761	C	0.004
	Gayley Ave.	PM	0.785	С	0.831	D	0.834	D	0.003
38.		AM	0.715	C	0.728	C	0.732	C	0.004
	Westwood Blvd.	PM	0.709	С	0.745	С	0.745	С	0.000
39.		AM	0.770	С	0.818	D	0.822	D	0.004
	Glendon Ave.	PM	0.867	D	0.950	E	0.951	E	0.001
40.		AM	0.622	В	0.692	В	0.692	В	0.000
	Malcolm Ave.	PM	0.768	С	0.857	D	0.857	D	0.000

# Table 23 (cont.)Critical Movement Analysis SummaryExisting and Future Conditons (Regular Session)

		Peak	Exis	ting	Futu Without		w	Future ith Proj	
No.	Intersection	Hour	CMA	LOS	CMA	LOS	CMA	LOS	Impact
41.		AM	0.814	D	0.950	E	0.952	E	0.002
	Westholme Ave.	PM	0.805	D	0.938	E	0.938	E	0.000
42.	Wilshire Blvd. and	AM	0.757	С	0.882	D	0.884	D	0.002
	Warner Ave.	PM	0.635	В	0.757	С	0.757	С	0.000
43.	Wilshire Blvd. and	AM	0.846	D	0.961	E	0.963	E	0.002
	Beverly Glen Blvd.	PM	0.849	D	0.981	E	0.983	E	0.002
44.	Ohio Ave. and	AM	0.943	E	0.995	Е	0.996	E	0.001
	Sawtelle Blvd.	PM	0.871	D	0.919	E	0.919	E	0.000
45.	Ohio Ave. and	AM	1.008	F	1.166	F	1.169	F	0.003
	Sepulveda Blvd.	PM	0.949	E	1.032	F	1.033	F	0.001
46.	Ohio Ave. and	AM	0.819	D	0.905	E	0.909	E	0.004
	Veteran Ave.	PM	0.989	E	1.069	F	1.071	F	0.002
47.	Ohio Ave. and	AM	0.730	С	0.833	D	0.837	D	0.004
	Westwood Blvd.	PM	0.779	С	0.850	D	0.851	D	0.001
48.	Santa Monica Blvd. and	AM	0.874	D	0.922	E	0.924	E	0.002
	Sawtelle Blvd.	PM	0.836	D	0.882	D	0.882	D	0.000
49.	Santa Monica Blvd. and	AM	0.816	D	0.872	D	0.872	D	0.000
	San Diego Fwy. (S/B)	PM	0.675	В	0.713	С	0.713	С	0.000
50.	Santa Monica Blvd. and	AM	1.039	F	1.097	F	1.098	F	0.001
	San Diego Fwy. (N/B)	PM	0.837	D	0.913	E	0.913	E	0.000
51.	Santa Monica Blvd. and	AM	0.970	E	1.115	F	1.116	F	0.001
	Sepulveda Blvd.	PM	1.016	F	1.181	F	1.181	F	0.000
52.	Santa Monica Blvd. and	AM	0.875	D	0.967	E	0.971	Е	0.004
	Veteran Ave.	PM	0.914	E	1.055	F	1.056	F	0.001
53.	Santa Monica Blvd. and	AM	0.812	D	0.904	E	0.908	E	0.004
	Westwood Blvd.	PM	0.852	D	0.964	E	0.964	E	0.000
54.	Roscomare Rd. and	AM	1.195	F	1.257	F	1.258	F	0.001
	Mulholland Dr.	PM	0.715	С	0.751	С	0.751	С	0.000
55.	Roscomare Rd. and	AM	0.498	А	0.524	Α	0.525	Α	0.001
	Stradella Rd./Linda Flora Dr.	PM	0.444	A	0.467	Α	0.467	Α	0.000
56.	Chalon Rd. and	AM	0.523	Α	0.588	Α	0.591	А	0.003
	Bellagio Rd.	PM	0.501	Α	0.527	Α	0.527	Α	0.000
57.	Beverly Glen Blvd. and	AM	1.026	F	1.079	F	1.081	F	0.002
	Mulholland Dr.	PM	1.048	F	1.102	F	1.102	F	0.000
58.	Beverly Glen Blvd. and	AM	0.812	D	0.853	D	0.858	D	0.005
	Greendale Dr.	PM	0.811	D	0.853	D	0.853	D	0.000

An \* indicates a significant impact.

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# Table 24

## Critical Movement Analysis Summary Existing and Future Conditons (Summer Session)

		Peak	Peak Existing			ure Project	Future With Project			
No.	Intersection	Hour	CMA	LOS	CMA	LOS	CMA	LOS	Impact	
1.	Church Ln./Ovada Pl. and	AM	0.779	С	0.657	В	0.670	В	0.013	
	Sepulveda Blvd.	PM	0.971	E	1.176	F	1.208	F	0.032 *	
2.	San Diego Fwy. S/B On/Off Ramps and	AM	0.973	Е	0.642	В	0.658	в	0.016	
	Church Ln.	PM	1.193	F	0.723	С	0.734	С	0.011	
3.	Sunset Blvd. and	AM	0.767	С	0.780	С	0.787	С	0.007	
	Church Ln.	PM	0.927	E	0.966	E	0.980	E	0.014 *	
	Sunset Blvd. and	AM	0.760	С	0.750	С	0.761	С	0.011	
	San Diego Fwy. N/B On/Off-Ramps	PM	0.413	A	0.416	A	0.453	A	0.037	
i.	Sunset Blvd. and	AM	0.812	D	0.829	D	0.882	D	0.053 *	
1	Veteran Ave.	PM	0.867	D	0.892	D	0.943	E	0.051 *	
	Sunset Blvd. and	AM	0.939	E	0.885	D	0.939	E	0.054 *	
1	Bellagio Wy.	PM	1.042	F	1.066	F	1.122	F	0.056 *	
	Sunset Blvd. and	AM	0.486	А	0.484	А	0.529	А	0.045	
1	Westwood Blvd.	PM	0.565	Â	0.578	Â	0.615	B	0.045	
			0.395	A	0.390		0.405	A	0.015	
	Sunset Blvd. and Stone Canyon Rd.	AM PM	0.395	A	0.390	A A	0.405	B	0.015	
	Sunset Blvd. and	AM PM	0.798	C D	0.813 0.855	D D	0.856	D D	0.043 *	
	Hilgard Ave./Copa De Oro Rd.									
	Sunset Blvd. and	AM	0.926	E	0.947	E	0.956	E	0.009	
	Beverly Glen Blvd.	PM	1.063	F	1.120	F	1.131	F	0.011 *	
	Sunset Blvd. (East I/S) and	AM	0.885	D	0.904	E	0.925	E	0.021 *	
	Beverly Glen Blvd.	PM	1.079	F	1.195	F	1.208	F	0.013 *	
	San Diego Fwy. N/B Off-Ramp and	AM	0.434	А	0.395	Α	0.405	А	0.010	
	Sepulveda Blvd.	PM	0.509	Α	0.437	A	0.438	A	0.001	
	Montana Ave. and	AM	0.668	в	0.777	С	0.804	D	0.027 *	
	Sepulveda Blvd.	PM	0.850	D	0.832	D	0.855	D	0.023 *	
ι.	Montana Ave. and	AM	0.859	D	1.011	F	1.075	F	0.064 *	
	Levering Ave.	PM	0.748	С	0.855	D	0.905	E	0.050 *	
	Montana Ave./Gayley Ave. and	AM	0.778	С	0.855	D	0.933	E	0.078 *	
	Veteran Ave.	PM	0.969	E	1.053	F	1.125	F	0.072 *	
	Strathmore PI. and	AM	0.623	в	0.658	в	0.727	С	0.069 *	
•	Gayley Ave.	PM	0.466	A	0.532	A	0.574	A	0.042	
		AM	0.489	A	0.537	A	0.548	A	0.011	
	Levering Ave. and Veteran Ave.	АМ РМ	0.489	B	0.537	C	0.548	C	0.001	
3.	Wyton Dr. and	AM PM	0.330 0.300	A	0.363 0.362	A A	0.390 0.384	A A	0.027	
	Hilgard Ave.									
3.	Wyton Dr./Comstock Ave. and	AM	0.609	В	0.648	В	0.658	B	0.010	
	Beverly Glen Blvd.	PM	0.751	С	0.798	С	0.804	D	0.006	
Э.	Westholme Ave. and	AM	0.390	А	0.435	А	0.468	А	0.033	
	Hilgard Ave.	PM	0.404	A	0.478	A	0.519	A	0.041	

# Table 24 (cont.)Critical Movement Analysis SummaryExisting and Future Conditons (Summer Session)

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		Peak	Evie	ting	Futu Without		Future With Project				
			CMA	LOS	CMA	LOS	CMA	LOS	Impact		
	Intersection	Hour AM	0.182	A	0.192	A	0.227	A	0.035		
21.	Manning Ave. and Hilgard Ave.	PM	0.223	Â	0.237	A	0.269	A	0.032		
22	Le Conte Ave. and	AM	0.567	А	0.615	в	0.643	в	0.028		
22.	Gayley Ave.	PM	0.519	А	0.553	Α	0.584	Α	0.031		
23.	Le Conte Ave. and	AM	0.559	А	0.606	в	0.649	в	0.043		
	Westwood Blvd.	PM	0.553	Α	0.626	В	0.667	В	0.041		
24.	Le Conte Ave. and	AM	0.311	А	0.367	А	0.400	Α	0.033		
	Tiverton Dr.	PM	0.299	Α	0.363	Α	0.382	A	0.019		
25.	Le Conte Ave. and	AM	0.404	Α	0.451	Α	0.504	Α	0.053		
	Hilgard Ave.	PM	0.439	Α	0.508	Α	0.541	Α	0.033		
26.	Weyburn Ave. and	AM	0.406	A	0.389	A	0.421	A	0.032		
20.	Gayley Ave.	PM	0.779	С	0.753	С	0.794	С	0.041		
27.	Weyburn Ave. and	AM	0.412	А	0.479	А	0.507	Α	0.028		
	Westwood Blvd.	PM	0.442	А	0.576	Α	0.627	В	0.051		
28	Weyburn Ave. and	AM	0.282	Α	0.330	Α	0.368	Α	0.038		
20.	Tiverton Dr.	PM	0.389	А	0.474	Α	0.486	Α	0.012		
29	Weyburn Ave. and	AM	0.328	А	0.345	Α	0.370	A	0.025		
20.	Hilgard Ave.	PM	0.493	А	0.603	В	0.640	В	0.037		
30	Kinross Ave. and	AM	0.429	Α	0.666	в	0.698	в	0.032		
00.	Westwood Blvd.	PM	0.560	Α	0.817	D	0.863	D	0.046		
31.	Lindbrook Dr. and	AM	0.364	А	0.381	А	0.397	А	0.016		
	Westwood Blvd.	PM	0.367	А	0.358	А	0.372	Α	0.014		
32	Lindbrook Dr. and	AM	0.294	A	0.316	А	0.342	Α	0.026		
	Tiverton Ave.	PM	0.311	Α	0.337	А	0.360	Α	0.023		
33.	Constitution Ave. and	AM	0.376	А	0.329	А	0.333	Α	0.004		
	Sepulveda Blvd.	PM	0.531	Α	0.532	А	0.537	Α	0.005		
34.	Wilshire Blvd. and	AM	0.885	D	0.976	E	0.982	E	0.006		
	San Vicente Blvd.	PM	0.918	E	1.024	F	1.035	F	0.011		
35.	Wilshire Blvd. and	AM	0.973	E	1.070	F	1.102	F	0.032		
	Sepulveda Blvd.	PM	1.000	E	1.083	F	1.091	F	0.008		
36.	Wilshire Blvd. and	AM	0.847	D	0.945	E	0.990	E	0.045		
	Veteran Ave.	PM	1.292	F	1.191	F	1.248	F	0.057		
37	Wilshire Blvd. and	AM	0.647	в	0.710	С	0.729	C.	0.019		
	Gayley Ave.	PM	0.742	С	0.781	С	0.814	D	0.033		
38	Wilshire Blvd. and	AM	0.699	В	0.725	С	0.741	С	0.016		
	Westwood Blvd.	PM	0.698	В	0.731	С	0.742	С	0.011		
39	Wilshire Blvd. and	AM	0.621	в	0.660	в	0.684	в	0.024		
	Glendon Ave.	PM	0.721	С	0.792	С	0.802	D	0.010		
40.	Wilshire Blvd. and	AM	0.634	в	0.707	С	0.709	С	0.002		
	Malcolm Ave.	PM	0.824	D	0.919	E	0.932	E	0.013		

## Table 24 (cont.) Critical Movement Analysis Summary Existing and Future Conditons (Summer Session)

		Peak	Exis	ting	Futu		w	Future ith Proj		
No.	Intersection	Hour	CMA	LOS	CMA	LOS	CMA	LOS	Impact	-
41.		AM	0.630	В	0.738	C	0.750	C	0.012	
	Westholme Ave.	PM	0.778	С	0.907	E	0.915	Е	0.008	
42.		AM	0.757	С	0.882	D	0.893	D	0.011	
	Warner Ave.	PM	0.635	В	0.757	С	0.772	С	0.015	
43.	Wilshire Blvd. and	AM	0.703	С	0.799	С	0.811	D	0.012	
	Beverly Glen Blvd.	PM	0.818	D	0.945	E	0.961	E	0.016	*
44.	Ohio Ave. and	AM	0.861	D	0.909	E	0.916	E	0.007	
	Sawtelle Blvd.	PM	0.875	D	0.923	E	0.926	E	0.003	
45.	Ohio Ave. and	AM	0.815	D	0.945	E	0.959	Е	0.014	*
	Sepulveda Blvd.	PM	0.965	E	1.051	F	1.059	F	0.008	
46.	Ohio Ave. and	AM	0.687	в	0.761	С	0.767	С	0.006	
	Veteran Ave.	PM	0.890	D	0.964	E	0.989	E	0.025	*
47.	Ohio Ave. and	AM	0.561	A	0.643	В	0.658	В	0.015	
	Westwood Blvd.	PM	0.641	В	0.699	В	0.713	С	0.014	
48.	Santa Monica Blvd. and	AM	0.838	D	0.884	D	0.891	D	0.007	
	Sawtelle Blvd.	PM	0.886	D	0.936	E	0.942	Е	0.006	
49.	Santa Monica Blvd. and	AM	0.870	D	0.959	E	0.959	E	0.000	
	San Diego Fwy. (S/B)	PM	0.667	в	0.705	С	0.706	С	0.001	
50.	Santa Monica Blvd. and	AM	0.783	С	0.826	D	0.834	D	0.008	
	San Diego Fwy. (N/B)	PM	0.737	С	0.805	D	0.809	D	0.004	
51.	Santa Monica Blvd. and	AM	0.901	E	1.035	F	1.037	F	0.002	
	Sepulveda Blvd.	PM	0.871	D	1.014	F	1.015	F	0.001	
52.	Santa Monica Blvd. and	AM	0.729	С	0.806	D	0.817	D	0.011	
	Veteran Ave.	PM	0.873	D	1.009	F	1.026	F	0.017	*
53.	Santa Monica Blvd. and	AM	0.771	С	0.860	D	0.876	D	0.016	
	Westwood Blvd.	PM	0.841	D	0.950	E	0.961	Е	0.011	*
54.	Roscomare Rd. and	AM	1.195	F	1.257	F	1.258	F	0.001	
	Mulholland Dr.	PM	0.715	С	0.751	С	0.752	С	0.001	
55.	Roscomare Rd. and	AM	0.498	А	0.524	А	0.526	А	0.002	
	Stradella Rd./Linda Flora Dr.	PM	0.444	A	0.467	А	0.467	Α	0.000	
56.	Chalon Rd. and	AM	0.523	А	0.588	А	0.600	Α	0.012	
	Bellagio Rd.	PM	0.501	A	0.527	A	0.543	Α	0.016	
57.	Beverly Glen Blvd. and	AM	1.026	F	1.079	F	1.090	F	0.011	*
	Mulholland Dr.	PM	1.048	F	1.102	F	1.107	F	0.005	
58.	Beverly Glen Blvd. and	AM	0.812	D	0.853	D	0.877	D	0.024	*
	Greendale Dr.	PM	0.811	D	0.853	D	0.858	D	0.005	

An \* indicates a significant impact.

## Table 25

	Intersection	REGULAR	SUMMER SESSION		
		СМА	LOS	СМА	LOS
1.	Church Ln. / Ovada Pl. and Sepulveda Blvd.	0.805	D	0.657	в
3.	Sunset Blvd. and Church Ln.	0.902	E	0.780	С
5.	Sunset Blvd. and Veteran Ave.	0.913	E	0.829	D
6.	Sunset Blvd. and Bellagio Way	0.971	E	0.885	D
9.	Sunset Blvd. and Hilgard Ave. / Copa de Oro Rd.	0.850	D	0.813	D
10.	Sunset Blvd. and Beverly Glen Blvd./Bel Air Rd.	1.026	F	0.947	Е
11.	Sunset Blvd. (east I/S) and Beverly Glen Blvd.	1.066	F	0.904	E
13.	Montana Ave. and Sepulveda Blvd.	1.081	F	0.777	С
14.	Montana Ave. and Levering Ave.	1.188	F	1.011	F
15.	Montana Ave. / Gayley Ave. Veteran and Ave.	0.952	E	0.855	D
16.	Strathmore PI. and Gayley Ave.	0.736	С	0.658	В
26.	Weyburn Avenue and Gayley Ave.	0.406	A	0.389	А
30.	Kinross Ave. and Westwood Blvd.	0.639	В	0.666	В
34.	Wilshire Blvd. and San Vicente Blvd.	1.107	F	0.976	E
35.	Wilshire Blvd. and Sepulveda Blvd.	1.162	F	1.070	F
36.	Wilshire Blvd. and Veteran Ave.	0.977	E	0.945	Е
37.	Wilshire Blvd. And Gayley Ave.	0.757	С	0.710	С
40.	Wilshire Blvd. and Malcolm Ave.	0.692	В	0.707	С
43.	Wilshire Blvd. and Beverly Glen Blvd.	0.961	E	0.799	С
45.	Ohio Ave. and Sepulveda Blvd.	1.166	F	0.945	E
46.	Ohio Ave. and Veteran Ave.	0.905	E	0.761	С
52.	Santa Monica Blvd. (N) and Veteran Avenue.	0.967	Е	0.806	D
53.	Santa Monica Blvd. (North) and Westwood Blvd.	0.904	E	0.860	D
57.	Beverly Glen Blvd. and Mulholland Dr.	1.079	F	1.079	F
58.	Beverly Glen Blvd. and Greendale Dr.	0.853	D	0.853	D

# Comparison of Future (Without Project) Traffic Conditions at Potentially Impacted Intersections During the AM Peak Hour

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## Table 26

## Comparison of Future (Without Project) Traffic Conditions at Potentially Impacted Intersections During the PM Peak Hour

	Intersection	REGULAR	SUMMER SESSION		
		СМА	LOS	СМА	LOS
1.	Church Ln. / Ovada Pl. and Sepulveda Blvd.	1.158	F	1.176	F
3.	Sunset Blvd. and Church Ln.	0.844	D	0.966	E
5.	Sunset Blvd. and Veteran Ave.	0.840	D	0.892	D
6.	Sunset Blvd. and Bellagio Way	1.063	F	1.066	F
9.	Sunset Blvd. and Hilgard Ave. / Copa de Oro Rd.	0.901	E	0.855	D
10.	Sunset Blvd. and Beverly Glen Blvd./Bel Air Rd.	1.124	F	1.120	F
11.	Sunset Blvd. (east I/S) and Beverly Glen Blvd.	1.205	F	1.195	F
13.	Montana Ave. and Sepulveda Blvd.	0.874	D	0.832	D
14.	Montana Ave. and Levering Ave.	0.957	E	0.855	D
15.	Montana Ave. / Gayley Ave. Veteran and Ave.	1.085	F	1.053	F
16.	Strathmore PI. and Gayley Ave.	0.712	С	0.532	А
26.	Weyburn Ave. and Gayley Ave.	0.659	В	0.753	С
30.	Kinross Ave. and Westwood Blvd.	1.005	F	0.817	D
34.	Wilshire Blvd. and San Vicente Blvd.	1.270	F	1.024	F
35.	Wilshire Blvd. and Sepulveda Blvd.	1.152	F	1.083	F
36.	Wilshire Blvd. and Veteran Ave.	1.243	F	1.191	F
37.	Wilshire Blvd. And Gayley Ave.	0.831	D	0.781	С
40.	Wilshire Blvd. and Malcolm Ave.	0.857	D	0.919	E
43.	Wilshire Blvd. and Beverly Glen Blvd.	0.981	E	0.945	E
45.	Ohio Ave. and Sepulveda Blvd.	1.032	F	1.051	F
46.	Ohio Ave. and Veteran Ave.	1.069	F	0.964	Е
52.	Santa Monica Blvd. (N) and Veteran Avenue	1.055	F	1.009	F
53.	Santa Monica Blvd. (North) and Westwood Blvd.	0.964	E	0.950	E
57.	Beverly Glen Blvd. and Mulholland Dr.	1.102	F	1.102	F
58.	Beverly Glen Blvd. and Greendale Dr.	0.853	D	0.853	D

#### **Regional Transportation System Impacts**

To address the increasing public concern that traffic congestion was impacting the quality of life and economic vitality of the State of California, the Congestion Management Program ("CMP") was enacted by Proposition 111. The intent of the CMP is to provide the analytical basis for transportation decisions through the State Transportation Improvement Program ("STIP") process. A Countywide approach has been established by the Metropolitan Transportation Authority and the local agency to implement the statutory requirements of the CMP. The Countywide approach includes designating a highway network that includes all state highways and principal arterials with the County and monitoring the network's level of service standards. This monitoring of the CMP network is one of the responsibilities of local jurisdictions. If level of service standards deteriorate, then local jurisdictions must prepare a deficiency plan to be in conformance with the Countywide plan.

All development projects which are required to prepare an EIR are subject to the Land Use Analysis program of the CMP. This requirement is to provide decision-makers with the project-specific traffic impacts created by large projects on the CMP highway network.

In order to analyze the impact of the project on the regional transportation system (e.g., the freeway network), the results of the computerized transportation model were again examined. Year 2011 freeway volumes, including the full buildout of the without projects scenario, were forecast in the same manner as for the surface street study intersections.

The future year 2011 freeway volumes are shown in Tables 27 and 28. Traffic volumes attributable to the Proposed 2002 LRDP, as determined earlier, were then analyzed as an incremental increase to the future "Without Project" traffic volumes, resulting in the

"With Proposed 2002 LRDP" traffic volumes, also provided in Tables 27 and 28. This methodology allowed for both an assessment of overall future freeway conditions and a determination of project impacts to these regional transportation facilities, as indicated in these tables.

The CMP defines regional project impacts as significant if the D/C ratio increases by 0.020 or more and the final (With Project) LOS is F. According to Table 27 and 28, all of the analyzed freeway segments would be operating at LOS E or F in one or both peak hours. However, the San Diego Freeway and the Santa Monica Freeway would not experience a significant impact as a result of the UCLA Proposed 2002 LRDP buildout.

 Table 27

 Future (2011) Freeway Traffic Volumes and Levels of Service During Regular Session

						"Without Project" Traffic Conditions				"With 2002 LRDP" Traffic Conditions				
		Peak		No.	Freeway	Daily	Peak Hour			Daily	Peak Hour			
No.	Location	Hour	Dir	Lanes	Capacity	Volume	Volume		LOS	Volume	Volume	D/C Ratio	LOS	Impact
1.	San Diego Fwy. (I-405)	AM	N/B	5	10,000	322,700	13,070	1.307	F(1)	322,900	13,089	1.309	F(1)	0.002
	South of Santa Monica Fwy.	PM		5	10,000		11,760	1.176	F(0)		11,761	1.176	F(0)	0.000
		AM	S/B	5	10,000		7,830	0.783	D		7,832	0.783	D	0.000
		PM		5	10,000		10,950	1.095	F(0)		10,955	1.096	F(0)	0.001
2.	San Diego Fwy. (I-405)	AM	N/B	5	10,000	329,100	8,670	0.867	D	329,500	8,704	0.870	D	0.003
	Btwn. Santa Monica Fwy. & Santa Monica Bl.	PM		5	10,000		11,930	1.193	F(0)		11,933	1.193	F(0)	0.000
		AM	S/B	5	10,000		12,520	1.252	F(1)		12,524	1.252	F(1)	0.000
		PM		5	10,000		11,110	1.111	F(0)		11,119	1.112	F(0)	0.001
3.	San Diego Fwy. (I-405)	AM	N/B	6	12,000	306,800	8,110	0.676	С	307,200	8,145	0.679	С	0.003
	Btwn. Wilshire BI. & Santa Monica BI.	PM		6	12,000		11,860	0.988	E		11,864	0.989	E	0.001
		AM	S/B	6	12,000		11,710	0.976	E		11,714	0.976	E	0.000
		PM		6	12,000		9,700	0.808	D		9,709	0.809	D	0.001
4.	San Diego Fwy. (I-405)	AM	N/B	5	10,000	278,100	7,320	0.732	С	278,300	7,333	0.733	С	0.001
	Btwn. Sunset Bl. & Wilshire Bl.	PM		5	10,000		12,550	1.255	F(1)		12,553	1.255	F(1)	0.000
		AM	S/B	5	10,000		10,550	1.055	F(0)		10,555	1.056	F(0)	0.001
		PM		5	10,000		6,870	0.687	С		6,874	0.687	С	0.000
5.	San Diego Fwy. (I-405)	AM	N/B	6*	11,600	276,000	7,200	0.621	С	276,200	7,203	0.621	С	0.000
	North of Sunset BI.	PM		6*	11,600		12,340	1.064	F(0)		12,347	1.064	F(0)	0.000
		AM	S/B	5*	9,600		10,390	1.082	F(0)		10,408	1.084	F(0)	0.002
		PM		5*	9,600		6,770	0.705	C		6,771	0.705	C	0.000
6.		AM	W/B	5	10,000	268,600	7,970	0.797	D	268,700	7,971	0.797	D	0.000
	Btwn. Bundy Dr. & San Diego Fwy.	PM		5	10,000		10,340	1.034	F(0)		10,342	1.034	F(0)	0.000
		AM	E/B	5	10,000		10,580	1.058	F(0)		10,586	1.059	F(0)	0.001
		PM		5	10,000		9,830	0.983	E		9,831	0.983	E	0.000
7.	Santa Monica Fwy. (I-10)	AM	W/B	4	10,000	281,400	7,790	0.779	D	281,500	7,800	0.780	D	0.001
	Btwn. Overland Ave. & National Bl.	PM		4	10,000		7,930	0.793	D		7,931	0.793	D	0.000
		AM	E/B	5	8,000		8,810	1.101	F(0)		8,812	1.102	F(0)	0.001
		PM		5	8,000		10,120	1.265	F(1)		10,123	1.265	F(1)	0.000

\* Includes high-occupancy vehicle lane.

Note: LOS designations based on criteria detailed in Appendix D, Exhibit D-6, page D-40, 1997, Los Angeles County CMP.

#### Table 28

## Future (2011) Freeway Traffic Volumes and Levels of Service During Summer Session

											"Witho	out Project" Tra	fic Conditions			"With 2002 LF	RDP" Traffic C	onditions	
		Peak		No.	Freeway Da	Daily	Peak Hour			Daily	Peak Hour								
No.	Location	Hour	Dir	Lanes	Capacity	Volume	Volume	D/C Ratio	LOS	Volume	Volume	D/C Ratio	LOS	Impact					
1.	San Diego Fwy. (I-405)	AM	N/B	5	10,000	322,700	13,070	1.307	F(1)	324,100	13,154	1.315	F(1)	0.008					
	South of Santa Monica Fwy.	PM		5	10,000		11,760	1.176	F(0)		11,780	1.178	F(0)	0.002					
													. (-)						
		AM	S/B	5	10,000		7,830	0.783	D		7,840	0.784	D	0.001					
		PM		5	10,000		10,950	1.095	F(0)		11,021	1.102	F(0)	0.007					
													. (	0.007					
2.	San Diego Fwy. (I-405)	AM	N/B	5	10,000	329,100	8,670	0.867	D	331,600	8,823	0.882	D	0.015					
	Btwn. Santa Monica Fwy. &	PM		5	10,000		11,930	1.193	F(0)		11,974	1.197	F(0)	0.004					
	Santa Monica Bl.												- (-)						
		AM	S/B	5	10,000		12,520	1.252	F(1)		12,539	1.254	F(1)	0.002					
		PM		5	10,000		11,110	1.111	F(0)		11,234	1.123	F(0)	0.012					
													- (-/						
З.	San Diego Fwy. (I-405)	AM	N/B	6	12,000	306,800	8,110	0.676	С	309,400	8,270	0.689	С	0.013					
	Btwn. Wilshire Bl. &	PM		6	12,000		11,860	0.988	E		11,908	0.992	E	0.004					
	Santa Monica Bl.																		
		AM	S/B	6	12,000		11,710	0.976	E		11,729	0.977	E	0.001					
		PM		6	12,000		9,700	0.808	D		9,825	0.819	D	0.011					
4.	San Diego Fwy. (I-405)	AM	N/B	5	10,000	278,100	7,320	0.732	С	279,400	7,381	0.738	С	0.006					
	Btwn. Sunset Bl. &	PM		5	10,000		12,550	1.255	F(1)		12,584	1.258	F(1)	0.003					
	Wilshire Bl.																		
		AM	\$/B	5	10,000		10,550	1.055	F(0)		10,572	1.057	F(0)	0.002					
		PM		5	10,000		6,870	0.687	С		6,925	0.693	С	0.006					
	and all the second second																		
5.	San Diego Fwy. (I-405)	AM	N/B	6*	11,600	276,000	7,200	0.621	С	277,500	7,212	0.622	С	0.001					
	North of Sunset BI.	PM		6*	11,600		12,340	1.064	F(0)		12,430	1.072	F(0)	0.008					
			1000		and the second														
		AM	S/B	5*	9,600		10,390	1.082	F(0)		10,474	1.091	F(0)	0.009					
		PM		5*	9,600		6,770	0.705	С		6,789	0.707	С	0.002					
~	0																		
6.	Santa Monica Fwy. (I-10)	AM	W/B	5	10,000	268,600	7,970	0.797	D	269,000	7,974	0.797	D	0.000					
	Btwn. Bundy Dr. & San Diego Fwy.	PM		5	10,000		10,340	1.034	F(0)		10,365	1.037	F(0)	0.003					
		AM	E/B	5	10,000		10,580	.1.058	F(0)		10,607	1.061	F(0)	0.003					
		PM		5	10,000		9,830	0.983	E		9,838	0.984	E	0.001					
7.	Santa Monica Fwy. (I-10)	AM	W/B	4	10,000	281,400	7,790	0.779	D	282,300	7,836	0.784	D	0.005					
	Btwn. Overland Ave. &	PM		4	10,000		7,930	0.793	D		7,946	0.795	D	0.002					
	National BI.											0.100		0.002					
		AM	E/B	5	8,000		8,810	1,101	F(0)		8,818	1.102	F(0)	0.001					
		PM		5	8,000		10,120	1.265	F(1)		10,161	1.270	F(1)	0.005					
												1.210		0.000					

\* Includes high-occupancy vehicle lane.

Note: LOS designations based on criteria detailed in Appendix D, Exhibit D-6, page D-40, 1997, Los Angeles County CMP.

### MITIGATION MEASURES

As shown in Tables 23 and 24, implementation of the 2002 LRDP would result in significant impacts at five of the 58 study intersections during the regular session, and at 25 of the 58 study intersections during the summer. As shown in Tables 25 and 26, traffic conditions at those 25 intersections are generally better (as indicated by a lower CMA value and/or better LOS) during the summer session compared to the regular session (and in some cases, substantially better). To determine the feasibility of mitigating impacts at these intersections, the following mitigation measures (beyond trip reductions previously adopted for the 1990 LRDP, and the capacity enhancements adopted for the Southwest Campus Housing and Parking Project, the Intramural Field Parking Structure Project and Academic Health Center Project) have been identified.

#### Adaptive Traffic Control System ("ATCS")

The City of Los Angeles is currently phasing installation of the Automated Traffic Surveillance and Control ("ATSAC") system throughout the City, which provides an at least 7 percent increase in capacity and even greater reductions in stops and delay. Technological advancements in traffic control systems have led to the development of the next generation of ATSAC, known as Adaptive Traffic Control System (ATCS), which is able to increase capacity by an additional 3 percent or more. As mitigation for the impacts of the proposed 2002 LRDP, UCLA could participate in funding the cost of installing ATCS at the significantly impacted intersections.

It should be noted that not all intersections are able to be added to the City's ATCS. The segment of Sunset Boulevard from the I-405 to Veteran Avenue has already been used to form an ATCS. As part of the Intramural Field Parking Structure, UCLA will fund the extension of this system to include a series of intersections up to and including Beverly Glen Boulevard at Sunset Boulevard (East Intersection). As these intersections

are already within or scheduled to be in ATCS, this system is not available as mitigation of potential LRDP impacts. Likewise, other intersections, such as Wilshire Boulevard and Sepulveda Boulevard, have been offered to the City for funding as part of the Southwest Campus project.

Beyond ATCS, physical improvements at intersections could also be used to mitigate impacts, including restriping or widening to create dedicated turn lanes. Potential mitigation options for each intersection were reviewed, including mitigation that may have been considered in conjunction with previous UCLA projects, including Parking Structure 4 Expansion, the Parking Structure 4 Expansion, Phase II (Janss Plaza), the Academic Health Center Facilities Reconstruction Plan, the Intramural Field Parking Structure, and the Southwest Campus Housing and Parking project.

To mitigate the potential impacts of LRDP implementation during the regular session, the following mitigation options have been identified for each intersection.

#### Intersection No. 5-Sunset Boulevard and Veteran Avenue

ATCS has already been installed at the intersection of Sunset Boulevard and Veteran Avenue (as part of a larger installation along Sunset from the San Diego Freeway eastward to Veteran), and is therefore not available to mitigate the impact of LRDP implementation at this intersection.

Therefore, physical modifications to improve the intersection capacity were evaluated. At the Veteran intersection, Sunset Boulevard provides two lanes of traffic (westbound and eastbound) and a single left-turn lane in both directions (although the eastbound left-turn lane provides access to a private driveway). In conjunction with the environmental review of this and previous UCLA projects, four potential options for physical improvements have been identified: - Widen the eastbound approach of Sunset Boulevard (west of Veteran Avenue) to provide a right-turn only lane.

- Widen the north side of Sunset Boulevard (at Veteran Avenue) to provide room for installation of an eastbound right-turn lane (west of Veteran Avenue).

- Widen the northbound approach of Veteran Avenue (south of Sunset Boulevard) to provide a right-turn only lane.

- Widen the south side of Sunset Boulevard, east of Veteran Avenue, to create a third eastbound traffic lane between Veteran Avenue and Bellagio Way.

Widening Sunset Boulevard or Veteran Avenue would increase the intersection's capacity and thereby mitigate the potentially significant impact at this intersection. Widening Sunset Boulevard would require approval of the Los Angeles City Department of Transportation, and would be within the jurisdiction of the City of Los Angeles, not the University, to implement.

To widen the eastbound approach of Sunset Boulevard (west of Veteran Avenue up to 200 feet, with a 60-foot transition—the typical size for a dedicated turn lane) would require relocation of the sidewalk and parkway approximately ten feet south, which would eliminate much of the landscaping that currently exists south of the sidewalk, along that stretch of Sunset Boulevard. Narrowing or eliminating the long-standing landscaped buffer that separates traffic on Sunset from the private residence(s) between Veteran Avenue and Greenfield Avenue could increase traffic noise, air quality and light and glare impacts (associated with headlights) for those residences.

Widening the north side of Sunset Boulevard (for a distance of over 200 feet), to permit relocation of through traffic lanes to the north and provide adequate room on the south side of the roadway for an eastbound right turn lane would require a retaining wall (along the north side of the street because of a grade change) both east and west of the

- Widen the eastbound approach of Sunset Boulevard (west of Veteran Avenue) to provide a right-turn only lane.

- Widen the north side of Sunset Boulevard (at Veteran Avenue) to provide room for installation of an eastbound right-turn lane (west of Veteran Avenue).

- Widen the northbound approach of Veteran Avenue (south of Sunset Boulevard) to provide a right-turn only lane.

- Widen the south side of Sunset Boulevard, east of Veteran Avenue, to create a third eastbound traffic lane between Veteran Avenue and Bellagio Way.

Widening Sunset Boulevard or Veteran Avenue would increase the intersection's capacity and thereby mitigate the potentially significant impact at this intersection. Widening Sunset Boulevard would require approval of the Los Angeles City Department of Transportation, and would be within the jurisdiction of the City of Los Angeles, not the University, to implement.

To widen the eastbound approach of Sunset Boulevard (west of Veteran Avenue up to 200 feet, with a 60-foot transition—the typical size for a dedicated turn lane) would require relocation of the sidewalk and parkway approximately ten feet south, which would eliminate much of the landscaping that currently exists south of the sidewalk, along that stretch of Sunset Boulevard. Narrowing or eliminating the long-standing landscaped buffer that separates traffic on Sunset from the private residence(s) between Veteran Avenue and Greenfield Avenue could increase traffic noise, air quality and light and glare impacts (associated with headlights) for those residences.

Widening the north side of Sunset Boulevard (for a distance of over 200 feet), to permit relocation of through traffic lanes to the north and provide adequate room on the south side of the roadway for an eastbound right turn lane would require a retaining wall (along the north side of the street because of a grade change) both east and west of the

intersection, and require modification of one or more driveways that provide access to private residences along the north side of Sunset Boulevard. Widening the roadway and installation of a retaining wall would result in the loss of landscaping, modify the visual character of this stretch of roadway, and could increase traffic noise impacts (which could be reflected by a retaining wall).

Widening the northbound approach of Veteran Avenue (south of Sunset Boulevard) to provide a right-turn only lane would require relocation of the jogging path and parkway approximately ten feet west, which would require relocation of a portion of the fence surrounding the UCLA Child Care Center. As this fence is currently covered with vines and numerous trees have been planted east of the fence, relocation of the fence would result in the loss of the vine-covered fence and trees that provide a visual and noise buffer between the Child Care Center and Veteran Avenue. In addition, some existing trees in the parkway would be removed, resulting in the further reduction in the visual buffer (which screens views of the campus) along the east side of Veteran Avenue. Creation of a right-turn lane could also result in the loss of on-street parking, along one of the few streets that provides unrestricted parking near UCLA. Thus widening Veteran Avenue to install a right-turn lane and relocation of the fence would result in the loss of landscaping, specimen trees and on-street parking and result in adverse visual impact.

On Sunset Boulevard west of Bellagio Drive (the on-campus extension of Bellagio Way) an existing right-turn lane (approximately 200 feet long) accommodates eastbound traffic that is turning right (into the campus). Widening Sunset Boulevard, east of Veteran Avenue) would extend this lane for the entire distance between Veteran Avenue and Bellagio Drive, and make it easier for vehicles to turn right onto Sunset Boulevard (which could then merge left into one of the two through lanes on Sunset). Currently, the parkway along the stretch of Sunset Boulevard consists of turf lawn, with a path of decomposed granite (part of the jogging path around the northwestern edge of

campus), a small landscaped strip, and an ivy-covered fence, in that order, south of the parkway. Behind the fence is the play yard for the UCLA Child Care Center. Widening the street at this location would result in the loss of the parkway, which could not be replaced due to the lack of space between the street and the fence. Relocation of the fence (to permit relocation of the parkway) would result in a reduction in the play area for the Child Care Center. In addition, several utility vaults, a storm-drain catch basin, an electrical vault, and several utility lines are currently located in the parkway. Relocation of the utility vaults into the existing jogging path (the only available space between the widened street and the existing fence) could pose a safety hazard (e.g., tripping) to joggers and pedestrians. In addition, widening the street could increase noise, air quality, and light and glare impacts to the Child Care Center, due to the increased proximity to vehicular traffic.

Since the identified physical modifications options would result in the loss of landscaping, which may include specimen trees, the removal of this landscaping would result in adverse visual quality impacts. The reduction of the landscaped buffer between the street and the adjacent land uses would increase traffic-related noise, air quality and light and glare impacts on the adjacent land uses, including private residences. In addition, the loss of on-street parking would reduce the supply of unrestricted parking, which is very limited adjacent to the campus. Therefore, the University considers all of these measures infeasible. No other feasible mitigation measures have been identified to mitigate the potentially significant impact at this location.

#### Intersection No. 6-Sunset Boulevard and Bellagio Way

In conjunction with their approval of the Intramural Field Parking Structure project, The Regents adopted a mitigation measure (IFPS C-8.2), to extend the ATCS installation along Sunset Boulevard from Bellagio Way to the eastern intersection of Beverly Glen Boulevard and Sunset Boulevard. Thus, installation of ATCS at Sunset Boulevard and Bellagio Way is not available to mitigate the impact of LRDP implementation at this intersection.

In conjunction with their approval of the Intramural Field Parking Structure project, The Regents adopted a mitigation measure (IFPS C-8.3) for the intersection which includes (1) restriping Bellagio Road north of Sunset Boulevard to modify the two-lane southbound approach to include a left/through optional lane and a right/through optional lane; (2) widening the south side of Sunset Boulevard by two feet to the west of Bellagio Drive and by four feet to the east of Bellagio Drive to provide one left-turn lane and one left/through/right shared lane in the northbound direction; and (3) modification of the signal light to provide north-south opposed phasing. (This improvement was assumed to be completed for the purposes of the LRDP traffic study.) Thus, any potential mitigation for the impact of LRDP implementation would have to be an addition to the planned improvement described above.

To improve the intersection's capacity, additional through or dedicated turn lanes could be provided, although the provision of additional through lanes is considered infeasible, as installation of additional lanes would require widening along a substantial length of the roadway, which would remove landscaping and reduce the noise and visual buffer between the roadway and adjacent land uses, including private residences. Installation of dedicated turn lanes could be provided for (1) westbound Sunset for cars turning onto northbound Bellagio Way; (2) southbound Bellagio Way for cars turning onto Sunset Boulevard, and (3) northbound Bellagio Drive for cars turning onto eastbound Sunset.

Each of these options would result in the removal of landscaping, and in some instances, mature specimen trees, which would have an adverse visual/aesthetic impact and reduce visual and noise buffers between the roadway and the adjacent land uses. In addition, modifications on Bellagio Way (north of Sunset) or on the northern edge of Sunset could result in adverse cultural resource impacts to the Bel-Air west gate.

The identified physical modifications options would result in the loss of landscaping, which may include specimen trees, and the removal of this landscaping would result in adverse visual quality impacts. The reduction of the landscaped buffer between the street and the adjacent land uses would increase traffic-related noise, air quality and light and glare impacts on the adjacent land uses, including private residents. Street widening could also result in adverse cultural resource impacts. Therefore the University considers all of these measures infeasible. No other feasible mitigation measures have been identified to mitigate the potentially significant impact at this location.

## Intersection No.14—Montana Avenue and Levering Avenue

This intersection is currently STOP sign controlled, therefore ATCS installation is not available as mitigation at this location. Signalization of this intersection would improve capacity and address the potentially significant impacts of LRDP implementation during the regular session. However, prior discussions with local community representatives have indicated opposition to the signalization of this intersection, and therefore is considered infeasible. No other feasible mitigation options have been identified for this intersection.

#### Intersection No.15—Montana Avenue/Gayley Avenue and Veteran Avenue

This intersection is currently controlled by signal light, and ATCS has not been installed, nor is currently planned for installation at this location. Thus, installation of ATCS is available as mitigation at this location. With installation of ATCS at this intersection, the impact of LRDP implementation during the regular session would be mitigated to a less-than-significant level.

Beyond ATCS installation at this location, physical modification of the intersection could also be used to mitigate potential impacts. In conjunction with the environmental review of previous UCLA projects, one potential option for a physical improvement has been identified, to widen Gayley Avenue, east of Veteran Avenue, to create a dedicated right turn lane for westbound vehicles turning north onto Veteran Avenue. However, this measure has been rejected previously as infeasible due to the presence of a utility vault, which would have to be relocated. The vault would either have to be relocated in the area occupied by the jogging path (which could pose a safety hazard to joggers and pedestrians) or the area currently occupied by landscaping and mature trees along the Gayley and Veteran boundaries of the Southern Regional Library facility. In addition, loss of on-street parking could occur, depending on the length of the turn lane.

Because the identified physical modification would result in the loss of landscaping, which may include specimen trees, removal of this landscaping would result in adverse visual quality impacts, as the existing landscaping screens views of the Southern Regional Library Facility. The loss of on-street parking would reduce the supply of unrestricted parking, which is very limited adjacent to the campus, particularly in the North Village where a large number of UCLA students reside in multi-family dwellings, many with inadequate on-site parking. Therefore the University considers this measure infeasible. No other feasible mitigation measures have been identified to mitigate the potentially significant impact at this location.

#### Intersection No.36-Wilshire Boulevard and Veteran Avenue

In conjunction with their approval of the Southwest Campus Housing and Parking project, The Regents adopted a mitigation measure (SWH C-6.2), to fund ATCS installation at Wilshire Boulevard and Veteran Avenue. Thus, installation of ATCS is not available to mitigate the impact of LRDP implementation at this intersection.

Mitigation measure SWH C-6-2 also included widening the east side of Veteran Avenue (on University property) and restripe Veteran Avenue to create dual right-turn only lanes in the southbound direction for cars turning onto westbound Wilshire Boulevard. (This improvement was assumed to be completed for the purposes of the LRDP traffic study.) Thus, any potential mitigation for the LRDP impact would have to be in addition to the planned improvement described above. Because of the proximity of adjacent land uses to the roadway [including the Los Angeles National Cemetery (which is surrounded by a concrete and metal fence), the West Los Angeles Federal Building (which is surrounded by concrete bollards), and a private office building] and the presence of street trees along Wilshire Boulevard and Veteran Avenue, additional widening of Wilshire Boulevard (east and west of the intersection) or Veteran Avenue (south of Wilshire Boulevard, or on the west side of the roadway north of Wilshire Boulevard) is not considered feasible. Additional widening of Veteran Avenue on the east side, north of Wilshire Boulevard (on University property) may be possible; however, this would result in an additional offset of the north and south legs of the intersection, requiring vehicles to veer when crossing the intersection, which could pose a traffic hazard. No other feasible mitigation measures have been identified for this intersection.

#### **Residual Impacts during Regular Session**

As no feasible mitigation measures are available to mitigate the impacts at four intersections, the impact of LRDP implementation during the regular session would remain significant and unavoidable at the following intersections:

- 5. Sunset Boulevard and Veteran Avenue (AM peak)
- 6. Sunset Boulevard and Bellagio Way (AM peak)
- 14. Montana Avenue and Levering Avenue (AM peak)
- 36. Wilshire Boulevard and Veteran Avenue (AM peak)

Implementation of ATCS at the intersection of Montana Avenue/Gayley Avenue and Veteran Avenue would reduce the impact to a less-than-significant level. Implementation of the 2002 LRDP would result in significant and unavoidable impacts during the regular session at the four intersections listed above during the AM peak hour.

#### Mitigation for Summer Session

To address the potentially significant impacts of implementation of the 2002 LRDP during the summer session, various mitigation options were identified for each intersection and are described below.

#### Intersection No. 1-Church Lane/Ovada Place and Sepulveda Boulevard

ATCS has already been installed at this intersection and is therefore not available to mitigate the impact of LRDP implementation at this intersection. In addition, the City of Los Angeles is planning to implement a reversible lane within the center median of Sepulveda Boulevard. Due to the proximity of Sepulveda Boulevard to the San Diego Freeway, widening of Sepulveda Boulevard is not feasible. In addition, because Church Lane utilizes the entire roadway passing underneath the San Diego Freeway, widening of that roadway is not feasible. No other feasible mitigation measures have been identified for this intersection.

## Intersection No. 3-Sunset Boulevard and Church Lane

ATCS has already been installed at this intersection and is therefore not available to mitigate the impact of LRDP implementation at this intersection. Both Sunset Boulevard and Church Lane are already striped to take full advantage of the existing roadways, including the San Diego Freeway overpass. No other feasible mitigation measures have been identified for this intersection.

#### Intersection No. 5-Sunset Boulevard and Veteran Avenue

Refer to the discussion of regular session mitigation for this intersection. No feasible mitigation measures have been identified for this intersection.

#### Intersection No. 6-Sunset Boulevard and Bellagio Way

Refer to the discussion of regular session mitigation for this intersection. No feasible mitigation measures have been identified for this intersection.

#### Intersection No. 9-Sunset Boulevard and Hilgard Avenue/Copa De Oro Road

In conjunction with their approval of the Intramural Field Parking Structure project, The Regents adopted a mitigation measure (IFPS C-8.2), to extend the ATCS installation along Sunset Boulevard from Bellagio Way to eastern intersection of Beverly Glen Boulevard and Sunset Boulevard. Thus, installation of ATCS at Sunset Boulevard and Hilgard Avenue/Copa De Oro Road is not available to mitigate the impact of LRDP implementation at this intersection.

In conjunction with the environmental analysis of previous projects, the University has considered improving this intersection by either 1) restriping Copa De Oro to create a separate left/through and right turn lanes; 2) widening Copa De Oro immediately north of the intersection to provide two southbound approach lanes; or 3) widening Sunset Boulevard west of Hilgard Avenue to create a right-turn lane for eastbound traffic turning onto Hilgard Avenue. The Los Angeles Department of Transportation previously rejected the first measure, because without widening the roadway, restriping would result in substandard lane widths. To overcome that objection, the second measure to widen the roadway was identified, however, this option would result in the removal of landscaping along one or both sides of the roadway. The third measure, to widen Sunset Boulevard to install a right-turn lane onto Hilgard would result in the removal of several specimen trees located adjacent to the roadway. None of these measures are considered feasible. No other feasible mitigation measures have been identified to mitigate the potentially significant impact at this location.

#### Intersection No. 10-Sunset Boulevard and Beverly Glen Boulevard/Bel Air Road

ATCS installation at this intersection is already planned, in accord with the adopted Intramural Field Parking Structure mitigation measure (IFPS C-8.2). Thus, installation of ATCS at Sunset Boulevard and Beverly Glen Boulevard/Bel Air Road is not available to mitigate the impact of LRDP implementation at this intersection. Physical modification of the intersection to improve capacity would mitigate potential impacts, however, this intersection is fully improved within the existing right-of-way and therefore restriping is not possible. Acquisition of additional land by the City of Los Angeles would likely be opposed by the local community, and is considered infeasible. No other feasible mitigation options have been identified for this intersection.

#### Intersection No. 11—Sunset Boulevard (East I/S) and Beverly Glen Boulevard

ATCS installation at this intersection is already planned, in accord with the adopted Intramural Field Parking Structure mitigation measure (IFPS C-8.2). Thus, installation of ATCS at Sunset Boulevard (east intersection) and Beverly Glen Boulevard is not available to mitigate the impact of LRDP implementation at this intersection. Both roadways are already improved to their full width and fully utilized, therefore restriping is not possible. Acquisition of additional land by the City of Los Angeles would likely be

opposed by the local community, and is considered infeasible. No other feasible mitigation options have been identified for this intersection.

#### Intersection No. 13-Montana Avenue and Sepulveda Boulevard

ATCS has not been installed, nor is currently planned for installation at this location. Thus, installation of ATCS is available as mitigation at this location and would mitigate the impact of LRDP implementation during the summer session to a less-thansignificant level.

Physical modification of the intersection could also be used to mitigate potential impacts. A peak hour reversible lane is proposed to be installed on Sepulveda Boulevard by the Los Angeles Department of Transportation and thus is not available to mitigate the impact of the 2002 LRDP during the summer session. Widening of either roadway, to install dedicated turn lanes or additional through lanes is not considered feasible, because Montana Avenue utilizes the entire roadway passing underneath the San Diego Freeway, and because of the proximity of Sepulveda Boulevard to the San Diego Freeway (to the west). Widening to the east would likely be opposed by the local community and is therefore considered infeasible. No other feasible mitigation measures have been identified for this intersection.

#### Intersection No. 14-Montana Avenue and Levering Avenue

Refer to the discussion of regular session mitigation for this intersection. No feasible mitigation measures have been identified for this intersection.

#### Intersection No. 15-Montana Avenue/Gayley Avenue and Veteran Avenue

Refer to the discussion of regular session mitigation for this intersection. ATCS installation would mitigate the impact of LRDP implementation during the regular session and would reduce, but not eliminate the potentially significant impact during the

summer session. No other feasible mitigation options have been identified for this intersection.

#### Intersection No. 16-Strathmore Place and Gayley Avenue

ATCS has not been installed, nor is currently planned for installation at this location. Thus, installation of ATCS is available as mitigation at this location and would mitigate the impact of LRDP implementation during the summer session to a less-thansignificant level.

Physical modification of the intersection could also be used to mitigate potential impacts. In conjunction with their approval of the Westwood Replacement Project, The Regents adopted a mitigation measure (AHC C-7) to restripe Gayley Avenue to create a dedicated northbound right turn lane (for vehicle turning onto Strathmore Place) and a right turn/through lane. This modification will result in the removal of on-street parking to accommodate the dedicated turn lane. Provision of additional dedicated lanes would require additional restriping which could result in loss of on-street parking, or widening, which would result in the loss of parkway landscaping and could result in the loss of on-street parking. Therefore further improvement of this intersection is considered infeasible. No other feasible mitigation measures have been identified at this location.

#### Intersection No. 26-Weyburn Avenue and Gayley Avenue

ATCS has not been installed, nor is currently planned for installation at this location. Thus, installation of ATCS is available as mitigation at this location and would mitigate the impact of LRDP implementation during the summer session to a less-thansignificant level.

Physical modification of the intersection could also be used to mitigate potential impacts. Restriping of the intersection to provide additional lanes would result in the

loss of on-street parking in Westwood Village and is therefore considered infeasible. No other feasible mitigation options have been identified for this intersection.

#### Intersection No. 30—Kinross Avenue and Westwood Boulevard

ATCS has not been installed, nor is currently planned for installation at this location. Thus, installation of ATCS is available as mitigation at this location and would mitigate the impact of LRDP implementation during the summer session to a less-thansignificant level.

Physical modification of the intersection could also be used to mitigate potential impacts. Restriping or physical modification of the intersection to provide additional lanes would result in the loss of on-street parking in Westwood Village, the loss of landscaped medians, or a reduction in pedestrian sidewalk widths and is therefore considered infeasible. No other feasible mitigation options have been identified for this intersection.

#### Intersection No. 34-Wilshire Boulevard and San Vicente Boulevard

ATCS has not been installed, nor is currently planned for installation at this location. Thus, installation of ATCS is available as mitigation at this location and would mitigate the impact of LRDP implementation during the summer session to a less-thansignificant level.

Physical modification of the intersection could also mitigate potential impacts, however, this intersection is fully improved within the existing right-of-way and therefore restriping is not possible. Widening would require acquisition of additional land (by the City of Los Angeles) and is therefore considered infeasible. No other feasible mitigation options have been identified for this intersection.

#### Intersection No. 35-Wilshire Boulevard and Sepulveda Boulevard

In conjunction with their approval of the Southwest Campus Housing and Parking project, The Regents adopted a mitigation measure (SWH C-6.3), to fund ATCS installation at Wilshire Boulevard and Sepulveda Boulevard. Thus, installation of ATCS is not available to mitigate the impact of LRDP implementation at this intersection.

Physical modification of the intersection to improve capacity could also mitigate potential impacts, however, this intersection is fully improved within the existing right-ofway and therefore restriping is not possible. Widening is not possible because the roadways under the San Diego Freeway underpasses (including the on- and off-ramps) are fully utilized. No feasible mitigation options have been identified for this intersection.

#### Intersection No. 36-Wilshire Boulevard and Veteran Avenue

Refer to the discussion of regular session mitigation for this intersection. No feasible mitigation measures have been identified for this intersection.

#### Intersection No. 37—Wilshire Boulevard and Gayley Avenue

ATCS has not been installed, nor is currently planned for installation at this location. Thus, installation of ATCS is available as mitigation at this location and would mitigate the impact of LRDP implementation during the summer session to a less-thansignificant level.

Physical modification of the intersection could also mitigate potential impacts, however, this intersection is fully improved within the existing right-of-way and therefore restriping is not possible. Widening would require acquisition of land by the City of Los Angeles is not feasible because of the proximity of office or retail uses adjacent to the roadways. No other feasible mitigation options have been identified for this intersection.

#### Intersection No. 40-Wilshire Boulevard and Malcolm Avenue

This intersection is currently STOP sign controlled, therefore ATCS installation is not available as mitigation at this location. Malcolm Avenue could be restriped to provide northbound and southbound right-turn lanes, which would increase the capacity of the intersection. With installation of this mitigation measure, the impact of implementation of the 2002 LRDP during the summer session would be mitigated to a less-than-significant level. Although this measure would result in the loss of up to 15 on-street parking spaces, this measure is technically feasible. No other feasible mitigation measures have been identified at this location.

#### Intersection No. 43—Wilshire Boulevard and Beverly Glen Boulevard

ATCS has not been installed, nor is currently planned for installation at this location. Thus, installation of ATCS is available as mitigation at this location and would mitigate the impact of LRDP implementation during the summer session to a less-thansignificant level.

Physical modification of the intersection to improve capacity could also mitigate potential impacts, however, this intersection is fully improved within the existing right-ofway and therefore restriping is not possible. Widening would require acquisition of additional land (by the City of Los Angeles) which would likely be opposed by the local community and is therefore considered infeasible. No other feasible mitigation options have been identified for this intersection.

#### Intersection No. 45—Ohio Avenue and Sepulveda Boulevard

ATCS has not been installed, nor is currently planned for installation at this location. Thus, installation of ATCS is available as mitigation at this location and would mitigate the impact of LRDP implementation during the summer session to a less-thansignificant level.

Physical modification of the intersection to improve capacity would mitigate potential impacts, however, this intersection is fully improved within the existing right-of-way and therefore restriping is not possible. Widening would require acquisition of additional land (by the City of Los Angeles) and is considered infeasible. No other feasible mitigation options have been identified for this intersection.

#### Intersection No. 46-Ohio Avenue and Veteran Avenue

ATCS has not been installed, nor is currently planned for installation at this location. Thus, installation of ATCS is available as mitigation at this location and would mitigate the impact of LRDP implementation during the summer session to a less-thansignificant level.

Physical modification of the intersection to improve capacity would mitigate potential impacts. As an alternative to ATCS, Veteran Avenue could be restriped to provide northbound and southbound right-turn lanes, which would increase the capacity of the intersection. With this mitigation, the impact of implementation of the 2002 LRDP during the summer session would be mitigated to a less-than-significant level. Although this measure would result in the loss of up to 15 on-street parking spaces, it is technically feasible. No other feasible mitigation measures have been identified at this location.

#### Intersection No. 52-Santa Monica Boulevard (North) and Veteran Avenue

ATCS has not been installed, nor is currently planned for installation at this location. Thus, installation of ATCS is available as mitigation at this location and would mitigate the impact of LRDP implementation during the summer session to a less-thansignificant level.

Physical modification of the intersection to improve capacity would mitigate potential impacts, however, the Santa Monica Boulevard Transitway project (which will begin construction in 2003 and was assumed to be completed for the purposes of this traffic

study) would make all feasible improvements to this intersection. No other feasible mitigation measures have been identified for this intersection.

#### Intersection No. 53—Santa Monica Boulevard (North) and Westwood Boulevard

ATCS has not been installed, nor is currently planned for installation at this location. Thus, installation of ATCS is available as mitigation at this location and would mitigate the impact of LRDP implementation during the summer session to a less-thansignificant level.

Physical modification of the intersection to improve capacity would mitigate potential impacts, however, the Santa Monica Boulevard Transitway project (which will begin construction in 2003 and was assumed to be completed for the purposes of this traffic study) would make all feasible improvements to this intersection. No other feasible mitigation measures have been identified for this intersection.

#### Intersection No. 57-Beverly Glen Boulevard and Mulholland Drive

The City of Los Angeles has no current plans to install ATCS along Mulholland Highway, and given the distance between this intersection and the adjacent ATCS installation, it is unlikely that the City would proceed with installation at a single intersection. Thus, installation of ATCS is not available as mitigation at this location.

Physical improvements could improve intersection capacity, however, both roadways at this intersection currently utilize the available roadways, and have already been flared along the approach to the intersection. Widening or further flaring of the roadways is not considered feasible, due to grade changes adjacent to the roadway and the potential loss of landscaping along this stretch of Mulholland, a designated scenic highway. No feasible mitigation measures have been identified for this intersection.

#### Intersection No. 58—Beverly Glen Boulevard and Greendale Drive

ATCS has not been installed, nor is currently planned for installation at this location. Thus, installation of ATCS is available as mitigation at this location and would mitigate the impact of LRDP implementation during the summer session to a less-thansignificant level.

Physical modification of the intersection to improve capacity could also mitigate potential impacts. As an alternative to ATCS, the west side of Beverly Glen Boulevard could be restriped to provide southbound left-turn and through lanes, which would increase the capacity of the intersection. With this mitigation, the impact of implementation of the 2002 LRDP during the summer session would be mitigated to a less-than-significant level. Although this measure would result in the loss of up to eight on-street parking spaces, it is technically feasible. No other feasible mitigation measures have been identified at this location.

#### Residual Impacts During Summer Session

As described previously, mitigation measures are described for many of the significantly impacted study intersections. However, with the implementation of all described mitigation measures (that were not rejected as infeasible), Table 29 indicates that impacts would remain significant and unavoidable for the Regular Session. During the summer session, impacts at 12 study intersections would remain significant and unavoidable. These intersections are summarized below.

#### No.

#### Intersection

- 1 Church Lane/Ovada Place and Sepulveda Boulevard
- 3 Sunset Boulevard and Church Lane
- 5 Sunset Boulevard and Veteran Avenue
- 6 Sunset Boulevard and Bellagio Way
- 9 Sunset Boulevard and Hilgard Avenue/Copa De Oro Road
- 10 Sunset Boulevard and Beverly Glen Boulevard/ Bel Air Road
- 11 Sunset Boulevard (East I/S) and Beverly Glen Boulevard
- 14 Montana Avenue and Levering Avenue
- 15 Montana Avenue/Gayley Avenue and Veteran Avenue
- 35 Wilshire Boulevard and Sepulveda Boulevard
- 36 Wilshire Boulevard and Veteran Avenue
- 57 Beverly Glen Boulevard and Mulholland Drive

It should also be noted that the signal and physical street improvements outlined in this report are beyond the control of the University of California, Board of Regents to implement. While all measures are all technically feasible, one or more measures may be rejected by a controlling jurisdiction. In that event, unless a new measure of equivalent cost and effectiveness is identified, significant traffic impacts could remain at up to 25 intersections during the summer session.

## Table 29

# Critical Movement Analysis Summary Existing and Future Conditons (Regular Session) -- With 2002 LRDP Plus Mitigation

		Peak	Exis	ting	Futu Without		w	Future /ith Pro			With Pr	Future oiect + M	litigation	
No.	Intersection	Hour	CMA	LOS	CMA	LOS	CMA	LOS	Impact	_	CMA	LOS	Impact	
1.	Church Ln./Ovada Pl. and	AM	0.925	E	0.805	D	0.808	D	0.003		0.808	D	0.003	
	Sepulveda Blvd.	PM	0.960	E	1.158	F	1.160	F	0.002		1.160	F	0.002	
2.	San Diego Fwy. S/B On/Off Ramps and	AM	0.950	E	0.629	в	0.633	в	0.004		0.633	в	0.004	
	Church Ln.	PM	0.953	E	0.589	А	0.590	Α	0.001		0.590	А	0.001	
3.	Sunset Blvd. and	AM	0.884	D	0.902	Е	0.902	Е	0.000		0.902	Е	0.000	
	Church Ln.	PM	0.814	D	0.844	D	0.844	D	0.000		0.844	D	0.000	
4.	Sunset Blvd. and	AM	0.823	D	0.777	С	0.781	С	0.004		0.781	С	0.004	
	San Diego Fwy. N/B On/Off-Ramps	PM	0.544	Α	0.553	А	0.555	Α	0.002		0.555	А	0.002	
5.	Sunset Blvd. and	AM	0.892	D	0.913	Е	0.925	Е	0.012	*	0.925	E	0.012	*
	Veteran Ave.	PM	0.820	D	0.840	D	0.845	D	0.005		0.845	D	0.005	
6.	Sunset Blvd. and	AM	0.941	E	0.971	E	0.982	Е	0.011	*	0.982	E	0.011	*
	Bellagio Wy.	PM	1.008	F	1.063	F	1.067	F	0.004		1.067	F	0.004	
7.	Sunset Blvd. and	AM	0.599	А	0.604	в	0.614	в	0.010		0.614	в	0.010	
	Westwood Blvd.	PM	0.609	в	0.624	В	0.626	В	0.002		0.626	в	0.002	
8.	Sunset Blvd. and	AM	0.505	А	0.504	А	0.508	А	0.004		0.508	A	0.004	
	Stone Canyon Rd.	PM	0.604	В	0.616	В	0.618	В	0.002		0.618	В	0.002	
9.	Sunset Blvd. and	AM	0.833	D	0.850	D	0.859	D	0.009		0.859	D	0.009	
	Hilgard Ave./Copa De Oro Rd.	PM	0.851	D	0.901	E	0.905	E	0.004		0.905	E	0.004	
10.		AM	1.001	F	1.026	F	1.028	F	0.002		1.028	F	0.002	
	Beverly Glen Blvd.	PM	1.066	F	1.124	F	1.125	F	0.001		1.125	F	0.001	
11.	Sunset Blvd. (East I/S) and	AM	1.039	F	1.066	F	1.071	F	0.005		1.071	F	0.005	
	Beverly Glen Blvd.	PM	1.087	F	1.205	F	1.205	F	0.000		1.205	F	0.000	
12.	San Diego Fwy. N/B Off-Ramp and	AM	0.506	Α	0.470	А	0.473	Α	0.003		0.473	A	0.003	
	Sepulveda Blvd.	PM	0.564	А	0.487	Α	0.487	Α	0.000		0.487	А	0.000	
13.	Montana Ave. and	AM	0.931	E	1.081	F	1.086	F	0.005		1.056	F	-0.025	
	Sepulveda Blvd.	PM	0.890	D	0.874	D	0.876	D	0.002		0.846	D	-0.028	
14.	Montana Ave. and	AM	1.012	F	1.188	F	1.202	F	0.014	*	1.202	F	0.014	*
	Levering Ave.	PM	0.837	D	0.957	Е	0.961	E	0.004		0.961	E	0.004	
15.	Montana Ave./Gayley Ave. and	AM	0.866	D	0.952	E	0.970	Е	0.018	*	0.940	E	-0.012	
	Veteran Ave.	PM	0.999	E	1.085	F	1.091	F	0.006		1.061	F	-0.024	

# Table 29 (cont.)Critical Movement Analysis SummaryExisting and Future Conditons (Regular Session) -- With 2002 LRDP Plus Mitigation

		Peak	Exis	ting	Futu Without		w	Future ith Proj		Future With Project + Mitigation				
No.	Intersection	Hour	CMA	LOS	CMA	LOS	CMA	LOS	Impact	CMA	LOS	Impact		
16.	Strathmore PI. and	AM	0.697	В	0.736	С	0.751	С	0.015	0.721	С	-0.015		
	Gayley Ave.	PM	0.625	в	0.712	С	0.715	, C	0.003	0.685	в	-0.027		
17.	Levering Ave. and	AM	0.491	А	0.540	А	0.543	Α	0.003	0.543	А	0.003		
	Veteran Ave.	PM	0.637	В	0.743	С	0.744	С	0.001	0.744	С	0.001		
18.	Wyton Dr. and	AM	0.427	А	0.475	А	0.483	Α	0.008	0.483	А	0.008		
	Hilgard Ave.	PM	0.300	Α	0.361	А	0.363	Α	0.002	0.363	А	0.002		
19.	, , , , , , , , , , , , , , , , , , ,	AM	0.782	С	0.830	D	0.832	D	0.002	0.832	D	0.002		
	Beverly Glen Blvd.	PM	0.787	С	0.836	D	0.837	D	0.001	0.837	D	0.001		
20.	Westholme Ave. and	AM	0.450	А	0.504	А	0.511	Α	0.007	0.511	А	0.007		
	Hilgard Ave.	PM	0.469	Α	0.551	А	0.554	Α	0.003	0.554	А	0.003		
21.		AM	0.273	А	0.288	Α	0.296	Α	0.008	0.296	А	0.008		
	Hilgard Ave.	PM	0.320	Α	0.341	А	0.344	Α	0.003	0.344	А	0.003		
22.	Le Conte Ave. and	AM	0.646	в	0.699	в	0.705	С	0.006	0.705	С	0.006		
	Gayley Ave.	PM	0.548	Α	0.583	А	0.585	Α	0.002	0.585	Α	0.002		
23.	Le Conte Ave. and	AM	0.602	в	0.651	в	0.658	В	0.007	0.658	в	0.007		
	Westwood Blvd.	PM	0.572	А	0.647	В	0.651	В	0.004	0.651	В	0.004		
24.	Le Conte Ave. and	AM	0.315	А	0.372	А	0.380	Α	0.008	0.380	А	0.008		
	Tiverton Dr.	PM	0.297	А	0.362	Α	0.363	Α	0.001	0.363	А	0.001		
25.	Le Conte Ave. and	AM	0.543	А	0.602	в	0.614	в	0.012	0.614	в	0.012		
	Hilgard Ave.	PM	0.621	В	0.716	С	0.717	С	0.001	0.717	С.	0.001		
26.	Weyburn Ave. and	AM	0.421	А	0.406	А	0.414	Α	0.008	0.387	А	-0.019		
	Gayley Ave.	PM	0.691	В	0.659	В	0.663	В	0.004	0.633	В	-0.026		
27.		AM	0.428	А	0.499	А	0.504	Α	0.005	0.504	А	0.005		
	Westwood Blvd.	PM	0.459	Α	0.587	Α	0.592	Α	0.005	0.592	А	0.005		
28.		AM	0.327	А	0.383	А	0.392	А	0.009	0.392	А	0.009		
	Tiverton Dr.	PM	0.378	А	0.463	А	0.463	Α	0.000	0.463	А	0.000		
29.	Weyburn Ave. and	AM	0.356	А	0.375	А	0.381	А	0.006	0.381	А	0.006		
	Hilgard Ave.	PM	0.525	А	0.641	В	0.643	В	0.002	0.643	В	0.002		
30.	Kinross Ave. and	AM	0.407	А	0.639	в	0.645	в	0.006	0.615	в	-0.024		
	Westwood Blvd.	PM	0.705	С	1.005	F	1.009	F	0.004	0.979	E	-0.026		

# Table 29 (cont.)Critical Movement Analysis SummaryExisting and Future Conditons (Regular Session) -- With 2002 LRDP Plus Mitigation

		Peak	Exis	ting	Futu Without		w	Future ith Proj		With Pro	Future piect + M	Aitigation
<u>No.</u> 31.	Intersection Lindbrook Dr. and Westwood Blvd.	Hour AM PM	<u>CMA</u> 0.369 0.431	LOS A A	<u>CMA</u> 0.387 0.451	LOS A A	<u>CMA</u> 0.391 0.452	LOS A A	Impact 0.004 0.001	<u>CMA</u> 0.391 0.452	LOS A A	Impact 0.004 0.001
32.	Lindbrook Dr. and Tiverton Ave.	AM PM	0.599 0.525	A A	0.653 0.577	B A	0.660 0.581	B A	0.007 0.004	0.660 0.581	B A	0.007 0.004
33.	Constitution Ave. and Sepulveda Blvd.	AM PM	0.415 0.590	A A	0.360 0.571	A A	0.361 0.571	A A	0.001 0.000	0.361 0.571	A A	0.001 0.000
34.	Wilshire Blvd. and San Vicente Blvd.	AM PM	1.006 1.142	F	1.107 1.270	F F	1.109 1.270	F	0.002 0.000	1.079 1.240	F	-0.028 -0.030
35.	Wilshire Blvd. and Sepulveda Blvd.	AM PM	1.056 1.065	F	1.162 1.152	F F	1.165 1.152	F	0.003 0.000	1.165 1.152	F	0.003 0.000
36.	Wilshire Blvd. and Veteran Ave.	AM PM	0.934 1.361	EF	0.977 1.243	E F	0.987 1.248	E F	0.010 * 0.005	0.987 1.248	E F	0.010 * 0.005
37.	Wilshire Blvd. and Gayley Ave.	AM PM	0.689 0.785	B C	0.757 0.831	C D	0.761 0.834	C D	0.004 0.003	0.731 0.804	C D	-0.026 -0.027
38.	Wilshire Blvd. and Westwood Blvd.	AM PM	0.715 0.709	c c	0.728 0.745	cc	0.732 0.745	с с	0.004	0.732 0.745	c c	0.004
39.	Wilshire Blvd. and Glendon Ave.	AM PM	0.770 0.867	C D	0.818 0.950	D E	0.822 0.951	D E	0.004	0.822 0.951	D E	0.004 0.001
40.	Wilshire Blvd. and Malcolm Ave.	AM PM	0.622 0.768	B C	0.692 0.857	B D	0.692 0.857	B D	0.000 0.000	0.679 0.807	B D	-0.013 -0.050
41.	Wilshire Blvd. and Westholme Ave.	AM PM	0.814 0.805	D D	0.950 0.938	E E	0.952 0.938	E	0.002 0.000	0.909 0.917	E	-0.041 -0.021
42.	Wilshire Blvd. and Warner Ave.	AM PM	0.757 0.635	C B	0.882 0.757	D C	0.884 0.757	D C	0.002	0.884 0.757	D C	0.002
43.	Wilshire Blvd. and Beverly Glen Blvd.	AM PM	0.846 0.849	D D	0.961 0.981	E E	0.963 0.983	E	0.002	0.933 0.953	E	-0.028
44	Ohio Ave. and Sawtelle Blvd.	AM PM	0.943 0.871	E D	0.995 0.919	E	0.996 0.919	E	0.001	0.996 0.919	E	0.001
45.	Ohio Ave. and Sepulveda Blvd.	AM PM	1.008 0.949	FE	1.166 1.032	F	1.169 1.033	F F	0.003 0.001	1.139 1.003	F	-0.027 -0.029

#### Table 29 (cont.) Critical Movement Analysis Summary Existing and Future Conditons (Regular Session) -- With 2002 LRDP Plus Mitigation

		Peak	Frie	ting	Futu Without		w	Future		With Pro	Future	Vitigation
No.	Intersection	Hour	CMA	LOS	CMA	LOS	CMA	LOS	Impact	CMA	LOS	Impact
46.	Ohio Ave. and	AM	0.819	D	0.905	Е	0.909	Е	0.004	0.882	D	-0.023
	Veteran Ave.	PM	0.989	E	1.069	F	1.071	F	0.002	1.059	F	-0.010
47.	Ohio Ave. and	AM	0.730	С	0.833	D	0.837	D	0.004	0.837	D	0.004
	Westwood Blvd.	PM	0.779	С	0.850	D	0.851	D	0.001	0.851	D	0.001
48.	Santa Monica Blvd. and	AM	0.874	D	0.922	E	0.924	Е	0.002	0.924	E	0.002
	Sawtelle Blvd.	PM	0.836	D	0.882	D	0.882	D	0.000	0.882	D	0.000
49.	Santa Monica Blvd. and	AM	0.816	D	0.872	D	0.872	D	0.000	0.872	D	0.000
	San Diego Fwy. (S/B)	PM	0.675	в	0.713	С	0.713	С	0.000	0.713	С	0.000
50.	Santa Monica Blvd. and	AM	1.039	F	1.097	F	1.098	F	0.001	1.098	F	0.001
	San Diego Fwy. (N/B)	PM	0.837	D	0.913	Е	0.913	Е	0.000	0.913	Е	0.000
51.	Santa Monica Blvd. and	AM	0.970	Е	1.115	F	1.116	F	0.001	1.116	F	0.001
	Sepulveda Blvd.	PM	1.016	F	1.181	F	1.181	F	0.000	1.181	F	0.000
52.	Santa Monica Blvd. and	AM	0.875	D	0.967	E	0.971	Е	0.004	0.941	E	-0.026
	Veteran Ave.	PM	0.914	E	1.055	F	1.056	F	0.001	1.026	F	-0.029
53.	Santa Monica Blvd. and	AM	0.812	D	0.904	Е	0.908	Е	0.004	0.878	D	-0.026
	Westwood Blvd.	PM	0.852	D	0.964	E	0.964	Е	0.000	0.934	E	-0.030
54.	Roscomare Rd. and	AM	1.195	F	1.257	F	1.258	F	0.001	1.258	F	0.001
	Mulholland Dr.	PM	0.715	С	0.751	С	0.751	С	0.000	0.751	С	0.000
55.	Roscomare Rd. and	AM	0.498	А	0.524	А	0.525	Α	0.001	0.525	А	0.001
	Stradella Rd./Linda Flora Dr.	PM	0.444	А	0.467	А	0.467	А	0.000	0.467	А	0.000
56.	Chalon Rd. and	AM	0.523	А	0.588	А	0.591	Α	0.003	0.591	А	0.003
	Bellagio Rd.	PM	0.501	А	0.527	Α	0.527	А	0.000	0.527	А	0.000
57.	Beverly Glen Blvd. and	AM	1.026	F	1.079	F	1.081	F	0.002	1.081	F	0.002
	Mulholland Dr.	PM	1.048	F	1.102	F	1.102	F	0.000	1.102	F	0.000
58.	Beverly Glen Blvd. and	AM	0.812	D	0.853	D	0.858	D	0.005	0.759	С	-0.094
	Greendale Dr.	PM	0.811	D	0.853	D	0.853	D	0.000	0.853	D	0.000
			0.011	0	0.000	U	0.000	-	0.000	0.000	D	0.00

An \* indicates a significant impact.

# Table 30

# Critical Movement Analysis Summary

## Existing and Future (Summer) Conditions -- With 2002 LRDP Plus Mitigation

		Peak	Exis	ting	Futu Without		w	Future ith Proj			With Pro	Future	e Mitigatio	'n
No.		Hour	CMA	LOS	CMA	LOS	CMA	LOS	Impact		CMA	LOS	Impact	
1.	Church Ln./Ovada Pl. and	AM	0.779	С	0.657	В	0.670	В	0.013		0.670	в	0.013	
	Sepulveda Blvd.	PM	0.971	E	1.176	F	1.208	F	0.032	*	1.208	F	0.032	*
2.	San Diego Fwy. S/B On/Off Ramps and	AM	0.973	Е	0.642	в	0.658	В	0.016		0.658	в	0.016	
	Church Ln.	PM	1.193	F	0.723	С	0.734	С	0.011		0.734	C	0.011	
3.	Sunset Blvd. and	AM	0.767	С	0.780	С	0.787	С	0.007		0.787	С	0.007	
	Church Ln.	PM	0.927	E	0.966	E	0.980	E	0.014	*	0.980	E	0.014	*
4.	Sunset Blvd. and	AM	0.760	С	0.750	С	0.761	С	0.011		0.761	С	0.011	
	San Diego Fwy. N/B On/Off-Ramps	PM	0.413	A	0.416	A	0.453	A	0.037		0.453	A	0.037	
5.	Sunset Blvd. and	AM	0.812	D	0.829	D	0.882	D	0.053	*	0.882	D	0.053	*
	Veteran Ave.	PM	0.867	D	0.892	D	0.943	E	0.051	*	0.943	E	0.053	*
6.	Sunset Blvd. and	AM	0.939	E	0.885	D	0.939	Е	0.054	*	0.939	E		*
	Bellagio Wy.	PM	1.042	F	1.066	F	1.122	F	0.056	*	1.122	F	0.054	*
7.	Sunset Blvd. and	AM	0.486	А	0.484	A	0.529	А	0.045		0.529			
	Westwood Blvd.	PM	0.565	Â	0.578	Â	0.615	B	0.045		0.615	A B	0.045	
8.	Sunset Blvd. and	AM	0.395	А	0.390	А	0.405	A	0.015		0.405			
0.	Stone Canyon Rd.	PM	0.582	A	0.590	Â	0.403	В	0.015		0.405	A B	0.015 0.027	
9.	Sunset Blvd. and	AM	0.798	С	0.813									
5.	Hilgard Ave./Copa De Oro Rd.	PM	0.798	D	0.813	D D	0.856 0.898	D D	0.043	*	0.856 0.898	D D	0.043 0.043	*
10.														
10.	Sunset Blvd. and Beverly Glen Blvd.	AM PM	0.926	E F	0.947 1.120	E	0.956 1.131	E	0.009	*	0.956	E	0.009	
								F	0.011		1.131	F	0.011	*
11.	Sunset Blvd. (East I/S) and	AM	0.885	D	0.904	E	0.925	E	0.021	*	0.925	E	0.021	*
	Beverly Glen Blvd.	PM	1.079	F	1.195	F	1.208	F	0.013	*	1.208	F	0.013	*
12.	San Diego Fwy. N/B Off-Ramp and	AM	0.434	Α	0.395	Α	0.405	А	0.010		0.405	А	0.010	
	Sepulveda Blvd.	PM	0.509	A	0.437	A	0.438	Α	0.001		0.438	А	0.001	
13.	Montana Ave. and	AM	0.668	в	0.777	С	0.804	D	0.027	*	0.774	С	-0.003	
	Sepulveda Blvd.	PM	0.850	D	0.832	D	0.855	D	0.023	*	0.825	D	-0.007	
14.	Montana Ave. and	AM	0.859	D	1.011	F	1.075	F	0.064	*	1.075	F	0.064	*
	Levering Ave.	PM	0.748	С	0.855	D	0.905	Е	0.050	*	0.905	Е	0.050	*
15.	Montana Ave./Gayley Ave. and	AM	0.778	С	0.855	D	0.933	Е	0.078	*	0.903	E	0.048	*
	Veteran Ave.	PM	0.969	Е	1.053	F	1.125	F			1.095	F	0.040	*

# Table 30 (cont.) Critical Movement Analysis Summary Existing and Future (Summer) Conditions -- With 2002 LRDP Plus Mitigation

		Peak	Exis	ting	Future Without Project		w	Future ith Proj	ect	Future With Project + Mitiga		
<u>No.</u> 16.	Intersection Strathmore PI. and Gayley Ave.	Hour AM PM	<u>CMA</u> 0.623 0.466	LOS B A	<u>CMA</u> 0.658 0.532	LOS B A	<u>CMA</u> 0.727 0.574	LOS C A	1mpact 0.069 * 0.042	<u>CMA</u> 0.697 0.544	LOS B A	Impact 0.039 0.012
17.	Levering Ave. and	AM	0.489	A	0.537	A	0.548	A	0.011	0.548	A	0.011
	Veteran Ave.	PM	0.633	B	0.741	C	0.749	C	0.008	0.749	C	0.008
18.	Wyton Dr. and	AM	0.330	A	0.363	A	0.390	A	0.027	0.390	A	0.027
	Hilgard Ave.	PM	0.300	A	0.362	A	0.384	A	0.022	0.384	A	0.022
19.	Wyton Dr./Comstock Ave. and	AM	0.609	B	0.648	B	0.658	B	0.010	0.658	B	0.010
	Beverly Glen Blvd.	PM	0.751	C	0.798	C	0.804	D	0.006	0.804	D	0.006
20.	Westholme Ave. and Hilgard Ave.	AM PM	0.390 0.404	A A	0.435 0.478	A A	0.468 0.519	A A	0.033 0.041	0.468 0.519	A A	0.033 0.041
21.	Manning Ave. and	AM	0.182	A	0.192	A	0.227	A	0.035	0.227	A	0.035
	Hilgard Ave.	PM	0.223	A	0.237	A	0.269	A	0.032	0.269	A	0.032
22.	Le Conte Ave. and Gayley Ave.	AM PM	0.567 0.519	A A	0.615 0.553	B A	0.643 0.584	B A	0.028 0.031	0.643 0.584	B A	0.028 0.031
23.	Le Conte Ave. and	AM	0.559	A	0.606	B	0.649	B	0.043	0.649	B	0.043
	Westwood Blvd.	PM	0.553	A	0.626	B	0.667	B	0.041	0.667	B	0.041
24.	Le Conte Ave. and Tiverton Dr.	AM PM	0.311 0.299	A A	0.367 0.363	A A	0.400 0.382	A A	0.033 0.019	0.400	A A	0.033 0.019
25.	Le Conte Ave. and	AM	0.404	A	0.451	A	0.504	A	0.053	0.504	A	0.053
	Hilgard Ave.	PM	0.439	A	0.508	A	0.541	A	0.033	0.541	A	0.033
26.	Weyburn Ave. and Gayley Ave.	AM PM	0.406 0.779	A C	0.389 0.753	A C	0.421 0.794	A C	0.032 0.041 *	0.393 0.764	A C	0.004 0.011
27.	Weyburn Ave. and	AM	0.412	A	0.479	A	0.507	A	0.028	0.507	A	0.028
	Westwood Blvd.	PM	0.442	A	0.576	A	0.627	B	0.051	0.627	B	0.051
28.	Weyburn Ave. and Tiverton Dr.	AM PM	0.282 0.389	A A	0.330 0.474	A A	0.368 0.486	A	0.038 0.012	0.368 0.486	A A	0.038 0.012
29.	Weyburn Ave. and	AM	0.328	A	0.345	A	0.370	A	0.025	0.370	A	0.025
	Hilgard Ave.	PM	0.493	A	0.603	B	0.640	B	0.037	0.640	B	0.037
30.	Kinross Ave. and Westwood Blvd.	AM PM	0.429 0.560	A A	0.666 0.817	B D	0.698 0.863	B D	0.032 0.046	0.668	B D	0.002 0.016

# Table 30 (cont.)

## **Critical Movement Analysis Summary**

# Existing and Future (Summer) Conditions -- With 2002 LRDP Plus Mitigation

		Peak	Exis	ting	Futu Without		w	Future /ith Proj			With Pr	Future	e Mitigatior	1
No		Hour	CMA	LOS	CMA	LOS	CMA	LOS	Impact		CMA	LOS	Impact	
31	. Lindbrook Dr. and	AM	0.364	Α	0.381	Α	0.397	Α	0.016		0.397	Α	0.016	
	Westwood Blvd.	PM	0.367	A	0.358	А	0.372	Α	0.014		0.372	Α	0.014	
32	. Lindbrook Dr. and	AM	0.294	А	0.316	А	0.342	Α	0.026		0.342	A	0.026	
	Tiverton Ave.	PM	0.311	Α	0.337	А	0.360	Α	0.023		0.360	Α	0.023	
33	. Constitution Ave. and	AM	0.376	Α	0.329	А	0.333	Α	0.004		0.333	А	0.004	
	Sepulveda Blvd.	PM	0.531	A	0.532	А	0.537	Α	0.005		0.537	Α	0.005	
34		AM	0.885	D	0.976	Е	0.982	Е	0.006		0.952	Е	-0.024	
	San Vicente Blvd.	PM	0.918	E	1.024	F	1.035	F	0.011	*	1.005	F	-0.019	
35		AM	0.973	Е	1.070	F	1.102	F	0.032	*	1.102	F	0.032	*
	Sepulveda Blvd.	PM	1.000	E	1.083	F	1.091	F	0.008		1.091	F	0.008	
36	. Wilshire Blvd. and	AM	0.847	D	0.945	E	0.990	E	0.045	*	0.990	Е	0.045	*
	Veteran Ave.	PM	1.292	F	1.191	F	1.248	F	0.057	*	1.248	F	0.057	*
37	. Wilshire Blvd. and	AM	0.647	в	0.710	С	0.729	С	0.019		0.699	в	-0.011	
	Gayley Ave.	PM	0.742	С	0.781	С	0.814	D	0.033	*	0.784	С	0.003	
38	. Wilshire Blvd. and	AM	0.699	в	0.725	С	0.741	С	0.016		0.741	С	0.016	
	Westwood Blvd.	PM	0.698	в	0.731	С	0.742	С	0.011		0.742	С	0.011	
39	. Wilshire Blvd. and	AM	0.621	в	0.660	в	0.684	в	0.024		0.684	в	0.024	
	Glendon Ave.	PM	0.721	С	0.792	С	0.802	D	0.010		0.802	D	0.010	
40	. Wilshire Blvd. and	AM	0.634	в	0.707	С	0.709	С	0.002		0.688	в	-0.019	
	Malcolm Ave.	PM	0.824	D	0.919	E	0.932	E	0.013	*	0.875	D	-0.044	
41	. Wilshire Blvd. and	AM	0.630	в	0.738	С	0.750	С	0.012		0.717	С	-0.021	
	Westholme Ave.	PM	0.778	С	0.907	E	0.915	E	0.008		0.843	D	-0.064	
42	. Wilshire Blvd. and	AM	0.757	С	0.882	D	0.893	D	0.011		0.893	D	0.011	
	Warner Ave.	PM	0.635	в	0.757	С	0.772	С	0.015		0.772	С	0.015	
43	. Wilshire Blvd. and	AM	0.703	С	0.799	С	0.811	D	0.012		0.781	С	-0.018	
	Beverly Glen Blvd.	PM	0.818	D	0.945	E	0.961	E	0.016	*	0.931	E	-0.014	
44	. Ohio Ave. and	AM	0.861	D	0.909	E	0.916	Е	0.007		0.916	Е	0.007	
	Sawtelle Blvd.	PM	0.875	D	0.923	E	0.926	E	0.003		0.926	Е	0.003	
45	. Ohio Ave. and	AM	0.815	D	0.945	Е	0.959	Е	0.014	*	0.929	Е	-0.016	
	Sepulveda Blvd.	PM	0.965	E	1.051	F	1.059	F	0.008		1.029	F	-0.022	

# Table 30 (cont.) Critical Movement Analysis Summary Existing and Future (Summer) Conditions -- With 2002 LRDP Plus Mitigation

		Peak	Exis	tina	Futu Without I		w	Future ith Proj	ect		With Pr	Future	e Mitigation
No.	Intersection	Hour	CMA	LOS	CMA	LOS	CMA	LOS	Impact		CMA	LOS	Impact
46.	Ohio Ave. and	AM	0.687	в	0.761	С	0.767	С	0.006		0.755	С	-0.006
	Veteran Ave.	PM	0.890	D	0.964	E	0.989	E	0.025	*	0.971	Е	0.007
47.	Ohio Ave. and	AM	0.561	A	0.643	в	0.658	в	0.015		0.658	в	0.015
	Westwood Blvd.	PM	0.641	в	0.699	в	0.713	С	0.014		0.713	С	0.014
48.	Santa Monica Blvd. and	AM	0.838	D	0.884	D	0.891	D	0.007		0.891	D	0.007
	Sawtelle Blvd.	PM	0.886	D	0.936	E	0.942	Е	0.006		0.942	E	0.006
49.	Santa Monica Blvd. and	AM	0.870	D	0.959	E	0.959	Е	0.000		0.959	Е	0.000
	San Diego Fwy. (S/B)	PM	0.667	в	0.705	С	0.706	С	0.001		0.706	С	0.001
50.	Santa Monica Blvd. and	AM	0.783	С	0.826	D	0.834	D	0.008		0.834	D	0.008
	San Diego Fwy. (N/B)	PM	0.737	С	0.805	D	0.809	D	0.004		0.809	D	0.004
51.	Santa Monica Blvd. and	AM	0.901	E	1.035	F	1.037	F	0.002		1.037	F	0.002
	Sepulveda Blvd.	PM	0.871	D	1.014	F	1.015	F	0.001		1.015	F	0.001
52.	Santa Monica Blvd. and	AM	0.729	С	0.806	D	0.817	D	0.011		0.787	С	-0.019
	Veteran Ave.	PM	0.873	D	1.009	F	1.026	F	0.017	*	0.996	E	-0.013
53.	Santa Monica Blvd. and	AM	0.771	С	0.860	D	0.876	D	0.016		0.846	D	-0.014
	Westwood Blvd.	PM	0.841	D	0.950	E	0.961	E	0.011	*	0.931	E	-0.019
54.	Roscomare Rd. and	AM	1.195	F	1.257	F	1.258	F	0.001		1.258	F	0.001
	Mulholland Dr.	PM	0.715	С	0.751	С	0.752	С	0.001		0.752	С	0.001
55.	Roscomare Rd. and	AM	0.498	А	0.524	A	0.526	А	0.002		0.526	А	0.002
	Stradella Rd./Linda Flora Dr.	PM	0.444	Α	0.467	A	0.467	А	0.000		0.467	A	0.000
56.	Chalon Rd. and	AM	0.523	А	0.588	А	0.600	А	0.012		0.600	А	0.012
	Bellagio Rd.	PM	0.501	Α	0.527	А	0.543	А	0.016		0.543	Α	0.016
57.	Beverly Glen Blvd. and	AM	1.026	F	1.079	F	1.090	F	0.011	*	1.090	F	0.011 *
	Mulholland Dr.	PM	1.048	F	1.102	F	1.107	F	0.005		1.107	F	0.005
58.	Beverly Glen Blvd. and	AM	0.812	D	0.853	D	0.877	D	0.024	*	0.778	С	-0.075
	Greendale Dr.	PM	0.811	D	0.853	D	0.858	D	0.005		0.858	D	0.005

An \* indicates a significant impact.

# APPENDIX A

DESCRIPTION OF BUS LINES

## APPENDIX A DESCRIPTION OF BUS LINES

Detailed below are the 19 public bus lines that collectively provide access between the campus and areas as far west as Pacific Palisades and the City of Santa Monica, as far east as Montebello, as far south as the Los Angeles International Airport (LAX) and as far north as Santa Clarita. These 19 bus lines are operated by the following six outside public transit operators: Santa Monica Municipal Bus Lines (SMMBL), Culver CityBus (CCB), the Los Angeles County Metropolitan Transportation Authority (LACMTA), the Los Angeles Department of Transportation (LADOT), the Antelope Valley Transit Authority (AVTA), and Santa Clarita Transit (SCT).

- Line 1 (SMMBL) operates between Venice Beach and the UCLA Bus Terminal on Hilgard Avenue, traveling primarily by way of Westwood Boulevard, Santa Monica Boulevard, Ocean Avenue and Main Street. In route, this line also serves Westwood Village, St. John's Hospital and the Santa Monica Place & 3rd Street Promenade. In the vicinity of the UCLA campus, Line 1 travels via Westwood Boulevard and Hilgard Avenue, stopping within walking distance of campus. Weekday access to the campus is provided by Line 1 between 6:00 AM and midnight. Ten-minute headways prevail throughout most of the day and decrease to 30-minutes after 7:00 PM. Access to the campus is also provided on Saturdays, Sundays and holidays on headways that range from 15- to 30-minutes.
- <u>Line 2 (SMMBL)</u> provides weekday service between the UCLA Bus Terminal and Venice High School and, in route, also accesses Westwood Village, the VA Hospital and the Santa Monica Place & 3rd Street Promenade. Line 2 generally travels via Wilshire Boulevard, 4th Street, Pacific Avenue and California Avenue. Line 2 provides weekday access to campus from 7:20 AM to 10:00 PM, and offers 15-

minute headways during peak travel periods, 20-minute headways throughout the remainder of the day, and 30-minute headways after 7:30 PM. Line 2 also accesses the campus on weekends and holidays with 20-minute headways in each travel direction.

- <u>Line 3 (SMMBL)</u> connects UCLA and the UCLA Bus Terminal with the El Segundo Green Line station, traveling primarily by way of Montana Avenue, Lincoln Boulevard, and Manchester Avenue. In route, Line 3 also accesses Westwood Village, Brentwood, Downtown Santa Monica and Marina Del Rey. Weekday and Saturday access to campus via Line 3 occurs between 7:00 AM and 10:00 PM. Headways in each travel direction are generally 20-minutes. Line 3 operates on Sunday but does not access the UCLA Bus Terminal.
- <u>Line 8 (SMMBL)</u> operates between the UCLA Bus Terminal and Downtown Santa Monica primarily by way of Westwood Boulevard, National Boulevard, Ocean Park Boulevard, and Main Street. Major destinations within close proximity include the Westside Pavilion, the Santa Monica Municipal Airport, the Ocean Park Industrial Park and the Santa Monica Place & 3rd Street Promenade. Line 8 provides weekday access to campus from 6:30 AM to approximately 11:15 PM. Headways are generally 15-minutes per direction until 6:30 PM, when service frequency decreases to every 30-minutes. Line 8 also serves UCLA on weekends and holidays, with 30-minute headways in each travel direction.
- Line 12 (SMMBL) provides weekday service between the UCLA Bus Terminal and the Pico/Robertson intersection. Line 12 also extends beyond the Pico/Robertson intersection to serve the Rimpau Transit Center during peak weekday travel periods. Near the UCLA campus, this line travels via Westwood Boulevard and stops within short walking distance of the campus. Beyond UCLA, Line 12 travels primarily by

way of Westwood Boulevard, Sepulveda Boulevard, Palms Boulevard, Robertson Boulevard and Pico Boulevard. Direct access is provided to Westwood Village, Westside Pavilion, Mar Vista Park and Hamilton High School. In the study area, weekday service is provided from 7:00 AM to 10:00 PM with approximately 20minute headways in each direction. Line 12 operates on weekends and holidays from 7:15 AM to 6:15 PM with 30-minute headways.

- <u>UCLA Commuter (SMMBL)</u> provides peak period service between National Place and Overland Avenue, and Ackerman Plaza on the UCLA campus. It provides connections with other Santa Monica Municipal Bus Lines routes, as well as Culver City Bus and MTA routes. In the study area, it operates along Westwood Boulevard/Plaza. It operates 10 northbound runs in the morning on a 14 to 22 minute headway. During the evening, this route provides 11 southbound runs on an 18 to 20 minute headway. This line does not operate during the mid-day, evening, weekends or holidays.
- Line 431 (LADOT) provides peak period express bus service between Westwood and Downtown Los Angeles, traveling via the Santa Monica (I-10) Freeway between the two destinations. In the study area, Line 431 travels along Gayley Avenue and stops within close walking distance of the campus. This line allows Westwood passengers to board only in the morning and alight only in the evening. Four eastbound runs to Downtown Los Angeles are provided in the morning, and four westbound runs to Westwood are provided in the afternoon. The morning trips serve the project area between 6:20 AM and 7:50 AM on 30-minute headways, while the afternoon trips serve the project vicinity from 5:30 PM to 6:50 PM on 25- to 30minute headways. This peak period express bus service does not operate on weekends or holidays.

- <u>Line 534 (LADOT)</u> provides peak period express bus service between Downtown Los Angeles and West Los Angeles, with service to Westwood. Line 534 accesses the UCLA campus at Wilshire Boulevard and Glendon Avenue, as well as Wilshire Boulevard and Westwood Boulevard. These stops are walking distance to campus. The morning trips serve campus with 4 runs between 7:35 AM and 9:35 AM, with headways ranging from 30-50 minutes. The afternoon, eastbound trips depart Westwood 4 times between 3:20 PM and 5:29 PM with headways ranging from 30-52 minutes. This peak period express bus service does not operate on weekends or holidays.
- Line 573 (LADOT) provides peak period express bus service between 0 Encino/Granada Hills and Westwood/Century City. Service also occasionally extends to Santa Clarita. In the vicinity of project, Line 573 travels along Gayley Avenue and stops within close walking distance of the project site. There are generally no boarding/alighting restrictions placed upon passengers, with the exception of passengers traveling between Westwood and Century City who may not use this line as a "local" service. Southbound runs to Westwood/Century City access the project area in the morning between 6:30 AM and 10:30 AM, and in the evening at approximately 5:30 PM and 6:15 PM. Northbound service to Encino/Granada Hills accesses the project area between 7:15 AM and 10:15 AM, offers a 12:20 PM bus, and serves the area again between 2:20 PM and 7:00 PM. Morning and evening headways generally range from 15- to 20-minutes in the peak direction of travel (southbound in AM and northbound in PM) and transitions to 30- to 45-minute headways during off-peak hours. This express bus service does not operate on weekends or holidays.

- o Line 6 (CCB) operates between the UCLA Bus Terminal and the LAX Transit Center and, in route, also accesses Westwood Village and the Fox Hills Mall. Line 6 generally travels via Sepulveda Boulevard. In the campus vicinity, it also travels along Le Conte Avenue and Westwood Boulevard and stops within walking distance of the project site. Line 6 provides weekday access to the campus from about 5:45 AM to 11:45 PM, and offers 12-minute headways during peak travel periods, 20minute headways midday, and 60-minute headways at night. Line 6 also accesses the campus area on Saturdays, Sundays and holidays with 30- to 40-minute headways in each travel direction.
- Line 786 (AVTA) provides peak period commuter service between Lancaster
   (Lancaster Transit Center) and West LA (Santa Monica Boulevard and Fairfax
   Avenue) with a stop in Westwood. The Westwood stop is at the intersection of
   Wilshire Boulevard and Westwood Boulevard which is within walking distance from
   the UCLA campus or UCLA shuttle system stops. Line 786 makes two morning
   (westbound) runs, arriving in Westwood at 7:26 AM and 7:56 AM. The evening
   routes to Lancaster (eastbound) depart from Westwood at 5:05 PM and 5:35 PM.
   Line 786 does not provide service for weekends nor holidays.
- o Lines 792 and 797 (SCT) provide peak period express service between Santa Clarita (Santa Clarita Metrolink Station) and Century City, with two stops in Westwood. In the study area, service is provided at the intersections of Gayley Avenue and Strathmore Drive and further south of the campus at Wilshire Boulevard and Glendon Avenue which is within walking distance from the UCLA campus or UCLA shuttle system stops. In the morning peak period, Line 797 provides service between 6:45 AM and 8:17 AM, with approximately 30- to 60-minute headways. In the evening, it operates from 4:56 PM to 6:51 PM, with headways ranging from 30-

55 minutes. Line 792 provides the reverse commute with morning departures from Westwood between 7:13 AM and 8:46 AM and evening arrivals between 4:07 PM to 6:12 PM. Both lines do not operate on weekends or holidays.

- o Lines 2 and 302 (MTA) provide weekday service between Pacific Palisades and Downtown Los Angeles and, in route, also access UCLA. These lines generally travel along Sunset Boulevard until they reach Downtown Los Angeles, where they traverse Broadway and Hill Street. In the vicinity of the campus, Lines 2 and 302 travel by way of Gayley, Le Conte and Hilgard Avenues, and stop within close walking distance of the project site. Together, these lines provide weekday access to the project area from 6:00 AM to 1:00 AM, and generally offer at least 10-minute headways throughout most of the AM and PM peak travel periods, and 20- to 40minute headways the remainder of the time. Although Line 302 operates weekdays only, MTA Line 2 accesses the project area on weekends and holidays with 12- to 24-minute headways in each travel direction.
- o Lines 20 and 21 (MTA) operate between Santa Monica and Downtown Los Angeles and, in route, accesses Westwood Village, Beverly Hills, LA County Art Museum, La Brea Tar Pits, several Metro Red Line Stations, Southwestern University and MacArthur Park. These lines generally travel by way of Westwood Boulevard, Wilshire Boulevard and 7th Street. In the study area, Lines 20 and 21 traverses along Hilgard Avenue, Le Conte Avenue, Westwood Boulevard, and Wilshire Boulevard and stops within close walking distance of the project site. Line 20 provides weekday service from 5:30 AM to 4:15 AM with 10- to 20-minute headways per direction. Line 21 operates during the weekdays between 6:30 AM and 8:00 PM with 25- to 30-minute headways per direction, but become more frequent (i.e., every 10- to 20-minutes) in the westbound direction for the morning peak hour and in the

eastbound direction for the afternoon peak travel period. Service is also provided on weekends and holidays via Line 20 with 10- to 35-minute headways throughout most of the day. Line 21 does not operate on Sundays or holidays. A variation of this route operates as Line 22 and serves San Vicente Boulevard, but does not serve the UCLA Transit Center.

 Line 429 (MTA) provides peak period express bus service between Westwood and Hollywood, traveling primarily by way of Sunset Boulevard and Hollywood Boulevard. Near the study area, this line travels along Westwood Boulevard, Le Conte Avenue, and Hilgard Avenue. Line 429 provides four runs each direction on weekday mornings, and five eastbound and four westbound runs on weekday afternoons. Morning eastbound service accesses the campus area between 5:50 AM and 8:15 AM on 55-minute headways, while morning westbound runs operate on 35- to 55-minute headways between 7:15 AM and 10:00 AM. On weekday afternoons, eastbound buses access the campus area between 3:30 PM and 6:00 PM every 30- to 60-minutes, and the westbound buses serve the area from 5:00 PM to 7:30 PM on 60-minute headways. No service is provided on weekends or holidays.

o Lines 233 and 561 (MTA) generally operate between the community of Westwood and the Sylmar/San Fernando Metrolink Station, with periodic service extensions to the LAX Bus Center on the southern end of the route. Line 561 periodically travels to the community of Lake View Terrace (Line 233) instead of the Metrolink Station, on the northern end of the route. The basic route travels primarily by way of Sunset Boulevard, Sepulveda Boulevard, the I-405 Freeway and Van Nuys Boulevard. Major destinations served include the UCLA community, the Federal Building, the Sherman Oaks Galleria, the Van Nuys Metrolink/Amtrak Station and the Panorama

Mall. When the route extends south to the LAX Transit Center, it also serves the Fox Hills Mall and the Metro Green Line at the Aviation Boulevard/I-105 Station. In the campus vicinity, Line 561 travels by way of Westwood Boulevard, Le Conte Avenue, Hilgard Avenue, and traverses the north portion of campus via Sunset Boulevard. Weekday access to the project area occurs between 5:00 AM and 12:30 AM. Headways in each direction generally range from 10 to 20 minutes during peak travel hours and 30 minutes for the remainder of the day, except after 9:00 PM when frequencies decrease to hourly service. Weekday service extensions to the LAX Transit Center generally occur during the same hours, but on 60-minute headways. Line 561 also operates on weekends and holidays with similar service characteristics to those described for weekdays, but with longer headways (i.e., 30-minutes per direction in the project vicinity). Line 233 operates as a variation to Line 561 and serves the UCLA Transit Center only in the southbound direction.

Line 576 (MTA) provides peak period express bus service between Pacific Palisades and south Los Angeles and, in route, also serves the communities of Brentwood, Westwood, Beverly Hills and Vernon. This line generally travels by way of Sunset Boulevard, La Cienega Boulevard, the Santa Monica (I-10) Freeway, Western Avenue and Vernon Avenue. In the project vicinity, Line 576 travels along Gayley, Le Conte, and Hilgard Avenues and stops within short walking distance of the campus. Line 576 provides five westbound trips during the morning peak period and seven eastbound trips during the afternoon peak period. The morning westbound buses access the project area between 6:50 AM and 9:15 AM on approximately 35-minute headways, and the afternoon eastbound buses serve the project vicinity between 3:00 PM and 5:50 PM on 20- to 40- minute headways. This express bus service operates on weekdays only.

Line 720 (MTA) provides rapid bus service between Santa Monica and Montebello (Montebello Metrolink Station), and, in route, also serves Brentwood, Westwood, Koreatown, Downtown LA and East LA. In the vicinity of the campus, Line 720 stops at Wilshire Boulevard and Westwood Boulevard. This route generally runs along Wilshire Boulevard, but travels along 6<sup>th</sup> Street in Downtown Los Angeles and Whittier Boulevard east of Downtown. Westbound morning buses access Westwood at approximately 5:00 AM and continually serve on 2-12 minute headways until approximately 12:45 PM. Service is provided in the afternoon until 6:30 PM with approximate 10 minute headways in both directions. Weekend service operates on 10-15 minute headways.

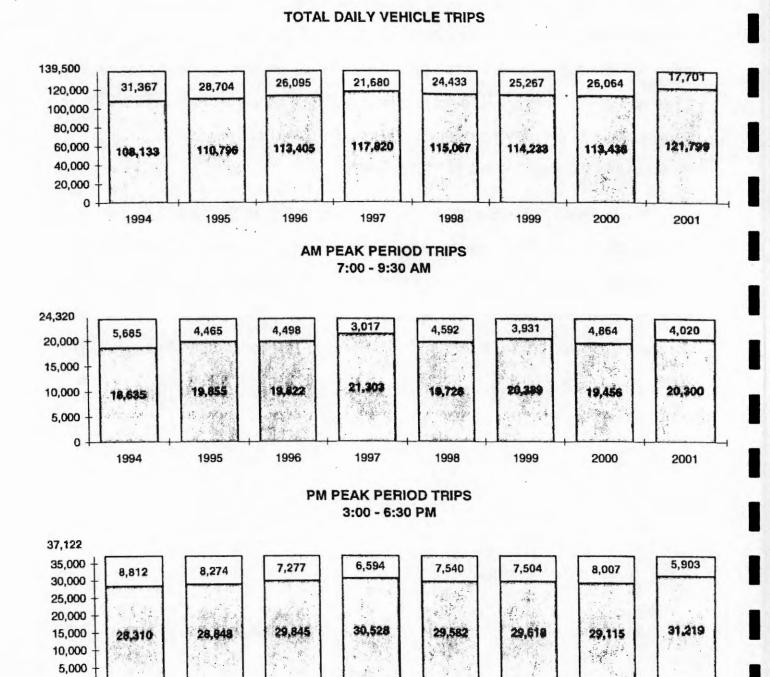
# APPENDIX B

HISTORICAL CORDON COUNT VOLUMES

## APPENDIX B HISTORICAL CORDON COUNT VOLUMES

A "cordon count" of all vehicles entering and exiting the UCLA campus has been conducted annually. In summary, the Cordon Count study complies with the Traffic Mitigation Monitoring Agreement (TMMA) and UCLA's Long Range Development Plan (Existing LRDP). The study is used to compare UCLA's annual average weekday Fall vehicle trips with the daily trip cap (139,500 vehicles), AM Peak trip cap (24,320 vehicles) and PM Peak trip cap (37,122 vehicles).

As shown in Graph 1 (Source: 2001 UCLA Trip Cap, March 18, 2002), UCLA has consistently remained below the trip cap. The historical cordon counts show that the campus was below the trip cap by 12.7 percent, 16.5 percent and 15.9 percent for the daily, AM Peak and PM Peak periods, respectively. In addition, while campus trips have generally fluctuated from year to year, they have increased by less than 8 percent since 1996.



# Graph 1 TOTAL DAILY AND PEAK PERIOD VEHICLE TRIPS Historical Comparison

B-2

1997

1998

1999

Trips Remaining in Cap

2000

2001

1996

Actual Vehicle Trips

1995

0

# APPENDIX C

# COMPUTER MODEL SUMMARY

# APPENDIX C COMPUTER MODEL SUMMARY

## Introduction

This report documents the procedures and results of the computerized transportation model developed to forecast traffic flows in and around the University of California at Los Angeles ("UCLA") campus in the year 2011. The model was developed as part of the ongoing Long Range Development Plan and was conducted to assist in the decision-makers in analyzing potential near- and long-term transportation impacts of the plan. However, not only does this report present information to more effectively make current decisions, the report documents the model, itself as an important tool which can be utilized to help monitor the growth within the University and surrounding area.

The transportation model being used is based on a computer model developed by the Southern California Association of Governments ("SCAG"). The SCAG model incorporates a regional land use database that was developed in close consultation with the local jurisdictions. The highway network was also developed based on input from transportation agencies throughout the region. The parameters within the model (trip generation rates, roadway capacity, etc.) have been calibrated to closely replicate the transportation patterns unique to the Southern California region.

The modeling software being utilized to edit networks and assign trips is EMME/2. This software is in use for other subregion studies in the Los Angeles area and for detailed transportation studies throughout the United States. Also utilized are a series of micro-computer programs specially developed by Crain & Associates to emulate the SCAG procedures.

C-1

### Zone System Development

The transportation planning zone system used in this study was based on the socioeconomic zones utilized by SCAG. However, there are several noteworthy variations, most of which have to do with the number of zones used. For this study it was desirable to have more detail within the campus, Westwood Village and surrounding areas and less detail in the more distant areas of Orange, San Bernardino, Riverside and Ventura Counties. To accomplish this, it was necessary to aggregate some of the outlying analysis zones into larger regional subareas. The aggregated model still represents all of the traffic volumes and distributions, but only utilizes one centroid per regional subarea. These aggregated zones are far enough from UCLA that precise individual zone connections are not necessary for accurate street and highway vehicle assignments in and near the campus. Every effort was made to ensure that area zones with like qualities and general distribution patterns were combined. Areas aggregated by this method were San Bernardino, Riverside, Orange, Ventura and distant parts of Los Angeles Counties. For the area surrounding the UCLA study area, the analysis zones used by SCAG in the regional study was further disaggregated into smaller zones.

# **Highway Network Update**

The SCAG model highway network includes all freeways and most of the significant primary and secondary streets in Los Angeles County. However, in order to more precisely represent traffic patterns within the UCLA study area, several modifications to the modeling network was made as described below.

 Additional links were added to represent numerous roadways in and around the project site. The number of lanes on the links in the study area were also updated to mirror current conditions.

C-2

- New centroids were also added to the network to represent zones that were disaggregated from the TAZ and Census Tract levels. Centroid connectors were added and also adjusted to more accurately reflect driveway and minor street locations.
- In the study area, the original two-way links representing the freeways were replaced by one-way links, whereby each freeway segment was replicated by an individual link. Likewise, the two-way links representing the freeway ramps were replaced by individual one-way links, one link for each individual ramp.
- All of the preceding modifications were made to the future 2011 model network as well as the existing 2001 model network. In addition, those improvements considered "reasonably assured" were also represented in the future 2011 model conditions.

## **Development of Demographics**

As with other sections of the model, the demographic information used was based on SCAG data produced for the regional study. Demographic information for areas outside the University study area for the year 2001 and 2011 model data sets were obtained by linear interpolation between SCAG data sets for 1997 and 2015.

Within the study area, more detail was needed in the demographic data used for trip generation purposes. Year 2000 and 2015 land use data at the census tract level was used instead of land use data at the CTP model TAZ level. The land use data at the census tract level was further divided into smaller zones or sub-zones. Disaggregation was conducted by comparing the size of each of the smaller zones devoted to each use to that of the overall zone. The demographic data within the study area is also increased, if necessary, to account for all identified proposed ("related") projects from

C-3

Table 14. The growth from the related projects is compared to the difference between the data for years 2011 and 2001. The related projects growth would be added to the year 2001 data if its growth is greater than the growth between the 2011 and 2001 data.

# APPENDIX D

I

I

# CRITICAL MOVEMENT ANALYSIS (CMA) WORKSHEETS

(Under Separate Cover)

Appendix 5 Floral and Faunal Lists

I

# TABLE A5-1ANATIVE PLANT SPECIES OBSERVED AND/OR EXPECTED TO OCCUR<br/>WITHIN THE NORTHWEST ZONE AND/OR STONE CANYON CREEK

Scientific Name	Common Name					
CYPERACEAE						
Cyperus eragrostis	Tall Flat-sedge ✔					
IRIDACEAE						
Sisyrinchium bellum	Blue-eyed Grass ◆✓					
LILIACEAE						
Yucca whipplei	Our Lord's Candle •					
POACEAE						
Distichlis spicata	Salt Grass 🖌					
Leymus condensatus	Giant Rye Grass 🔸					
Festuca megulura	Foxtail Fescue •					
Melica imperfecta	California Melic ✓					
Nassella lepida	Foothill Needlegrass • ✓					
Nassella pulchra	Purple Needlgrass •					
ACERACEAE						
Acer macrophyllum	Big-leaf Maple ✓					
ANACARDIACEAE						
Malosma laurina	Laurel Sumac • 🗸					
Toxicodendron diversilobum	Poison Oak •					
ASTERACEAE						
Artemisa californica	Costal Sagebrush • 🗸					
Artemisia dracunculus	Wild Tarragon •					
Baccharis pilularis	Coyote Brush ◆✓					
Baccharis glutinosa	Mule Fat •					
Encelia californica	Bush Sunflower •					
Gnaphalium bicolor	Two-tone Everlasting •					
Gnaphalium californicum	Green Everlasting •					
Hazardia squarrosa	Saw-toothed Goldenbush •					
Hazardia stenolepis	Common Hazardia •					
Isocoma sp.						
Stephanomeria sp.	Coastal Isocoma • Stephanomeria •					
CACTACEAE						
Opuntia littoralis	Coastal Prickly Pear •					
Opuntia occidentalis	Western Prickly Pear •					
CAPRIFOLIACEAE						
Sambucus mexicana	Blue Elderberry ◆✓					
CONVOLVULACEAE						
Calystegia sp.	Morning Glory •					
CUCURBITACEAE						
Marah macrocarpus	Wild Cucumber •					

#### TABLE A5-1A NATIVE PLANT SPECIES OBSERVED AND/OR EXPECTED TO OCCUR WITHIN THE NORTHWEST ZONE AND/OR STONE CANYON CREEK

Scientific Name	Common Name				
FABACEAE					
Astragulus sp.	Milkvetch •				
Astragalus gambelianus	Dwarf Locoweed •				
Lotus scoparius	Deer Weed •				
Lupinus spp.	Lupines •				
Trifolium spp.	Clovers •				
FAGACEAE					
Quercus agrifolia	Coast Live Oak ◆✓				
Quercus chrysolepis	Canyon Live Oak ✓				
JUGLANDACEAE					
Juglans californica	California Black Walnut 🕶				
LAMIACEAE					
Salvia mellifera	Black Sage ◆✓				
Trichostema lanatum	Wooly Blue Curls •				
PLATANACEAE					
Platanus racemosa	California Sycamore • 🗸				
POLYGONACEAE					
	Buckwheat✓				
Eriogonum sp.	Duckwhicat .				
PORTULACACEAE					
Claytonia perfoliata	Miners Lettuce				
ROSACEAE					
Cercocarpus betuloides	Mountain Mahogany •				
Heteromeles arbutifolia	Toyon •				
Prunus ilicifolia	Holly-leaved Cherry •				
SALICACEAE					
Salix laevigata	Red Willow ◆✓				
SAXIFRAGACEAE					
Ribes speciosum	Fuchsia-flowered Gooseberry •				
SCROPHULARIACEAE					
Keckiella ternata	Wand Penstemon •				
Mimulus longiflorus	Bush Monkey Flower •				
Mimulus aurantiacus	Sticky Monkey Flower 🖌				
SOLANACEAE					
Datura sp.	Jimson Weed •				
Solanum douglasii	Douglas Nightshade • 🗸				
Solanum xantii	Purple Nightshade •				
VERBANACEAE					
Verbena lasiostachys	Vervain •				
VISCACEAE Pharadandron macrophyllum	Big-leaf Mistletoe ✓				
Phoradendron macrophyllum	stal Sage Scrub at University of California Los Angeles, Surveys performed Winter				

Source:

 Longcore, Travis, 1997. Biological Assessment, Coastal Sage Scrub at University of California, Los Angeles. Surveys performed Winter ✓ EIP field surveys performed 5 December 2001
 The Northwest Campus Development Phase II Supplemental Environmental Impact Report did not address plant species.

Scientific Name	Common Name					
CUPRESSACEAE						
Cupressus sp.	Cypress • ✓					
Juniperus sp	Juniper ◆✓					
Juniperus chinensis	Chinese Juniper •					
PINACEAE						
Cedrus deodara	Deodar Cedar ◆✓					
Pinus canariensis	Canary Island Pine ◆✔					
Pinus halepensis	Aleppo Pine 🕶					
CYPERACEAE						
Cyperus alternifolius	Umbrella Plant ◆✓					
TAXODIACEAE <sup>‡</sup>						
Sequoia sempervirens	Coast Redwood ♦✔					
Sequoia giganteum	Giant Sequoia ✓					
POACEAE						
Avena spp.	Wild Oats ◆✓					
Bromus	Brome grass *					
Bromus diandrus	Ripgut Grass ◆✓					
Bromus tectorum	Cheat Grass ✓					
Bromus sp.	Hungarian Brome •					
Bromus sp.	Spanish Brome 🔶					
Festuca sp.	Fescue ◆✓					
Cortaderia sp.	Pampas Grass ◆✓					
Digitaria sanguinalis	Hairy Crab Grass 🔹					
Ehrharta calycina	Veldt Grass • ✓					
Lolium multiflorum	Italian Rye Grass ◆✓					
Phalaris aquatica	Harding Grass • 🗸					
Piptatherum miliaceum	Smilo Grass ◆✓					
AIZOACACEAE						
Carpobrotus edulis	Hottentot Fig (Iceplant) ♦√					
ANACARDIACEAE						
Schinus terebinthifolius	Brazilian Pepper Tree 🕶					
Rhus sp.	Rhus 🗸					
ANNONACEAE						
Annona cherimoya	Cherimoya •					
APIACEAE						
Foeniculum vulgare	Sweet Fennel • 🗸					
APOCYNACEAE						
Nerium oleander	Oleander •					
Vinca minor	Periwinkle 🕶					
ARACEAE						
Philodendron bipinnatifidum	Philodendron 🗸					

# TABLE A5-1B NON-NATIVE PLANT SPECIES OBSERVED AND/OR EXPECTED TO OCCUR WITHIN THE NORTHWEST ZONE AND/OR STONE CANYON CREEK

Scientific Name	Common Name				
ARALIACEAE					
Hedera canariensis	Algerian Ivy • 🗸				
Hedera helix	English Ivy • 🗸				
Aralia chinensis	Chinese Angelica 🗸				
ARECACEAE					
Washingtonia filifera	California Fan Palm ♥✔				
ASTERACEAE					
Conyza bonariensis	Little Horseweed •				
Conyza canadensis	Horseweed •				
Delaria odorata (Senecio mikanoides)	German Ivy 🗸				
Iva axillaris	Poverty Weed •				
Picris echioides	Bristly Ox-tongue 🗸				
Santolina chameacyparissus	Lavender Cotton •				
Senecio vulgaris	Common Groundsel •				
Sonchus oleraceus	Sow Thistle ♥✔				
Taraxacum officinale	Dandelion • 🗸				
BRASSICACEAE					
Brassica nigra	Black Mustard • 🗸				
Raphanus sativus	Radish 🖌				
CHENOPODIACEAE					
Atriplex semibaccata	Australian Saltbush •				
Salsola tragus	Russian Thistle 🕶				
CISTACEAE					
Cistus sp.	Rock-rose ◆✓				
Cistus incanus	Rock-rose ◆✓				
CONVOLVULACEAE					
Convolvulus arvensis	Bindweed •				
CRASSULACEAE					
Crassula ovata	Jade Plant •				
EUPHORBIACEAE					
Ricinus communis	Castor Bean ♦✓				
ELAGNACEAE					
Elaeagnus multiflora	Cherry Elaeagnus 🗸				
FABACEAE					
Acacia spp	Acacias ◆✓				
Acacia baileyana	Bailey Acacia 🔹				
Acacia melanoxylon	Black Acacia 🗸				
Albizia distachaya	Plume Albizia •				
Albizia julibrissin	Silk Tree •				
Cassia corymbosa	Flowery Senna •				
Ceratonia siliqua	St. John's Bread, Carob •				
Medicago lupulina	Black Medic 🗸				

# TABLE A5-1B NON-NATIVE PLANT SPECIES OBSERVED AND/OR EXPECTED TO OCCUR WITHIN THE NORTHWEST ZONE AND/OR STONE CANYON CREEK

Scientific Name	Common Name				
FAGACEAE	TINGIA				
Lithocarpus densiflora	Tanbark Oak •				
Quercus ilex	Holly Oak •				
Quercus engelmannii	Engelman Oak +				
Quercus suber	Cork Oak •				
Quercus wislizenii	Interior Live Oak 🕶				
FLACOURTIACEAE					
Xylosma congestum	Xylosma •				
GERANIACEAE					
Erodium spp.	Filarees 🕶				
Geranium molle	Dove's- Foot Crane's-Bill ✓				
HAMAMELIDACEAE					
Liquidambar stryaciflua	American Sweet Gum ✓				
LAMIACEAE					
Marrubium vulgare	Horehound •				
Rosemarinus officinalis	Rosemary •				
Teucrium fruticans	Germander •				
MALVACEAE					
Malacothamnus fasciculatus	Bush Mallow •				
Malva parviflora	Cheeseweed •				
MORACEAE					
Ficus pumila	Creeping Fig ◆				
Ficus rubiginosa	Rusty-leaf Fig				
MYOPORACEAE					
Myoporum sp.	Myoporum ◆✓				
MENISPERMACEAE					
Cocculus laurifolius	Cocculus				
MYRTACEAE					
Eucalyptus spp.	Eucalyptus *				
Callistemon citrinus	Lemon Bottlebrush •				
Syzygium paniculatum	Australian Bush Cherry ↔✓				
NYCTAGINACEAE					
Bougainvillea sp.	Bougainvillea 🖌				
OLEACEAE					
Forsythia intermedia	Golden Bells ✓				
Olea europea	Olive Tree +				
ONAGRACEAE					
Ludwigia sp.	Water Primrose +				
OXALIDACEAE					
Oxalis sp.	Wood Sorrel ◆✓				
PASSIFLORACEAE					
PASSIFLORACEAE Passiflora sp.	Passion Vine ◆✓				

Scientific Name	Common Name				
PITTOSPORACEAE					
Pittosporum undulatum	Victorian Box Tree •				
Pittosporum tobira	Japanese Pittosporum 🗸				
PLANTAGINACEAE					
Plantago lanceolata	English Plantain •				
Plantago major	Common Plantain 🗸				
PLUMBAGINACEAE					
Plumbago auriculata	Cape Plumbago 🔹				
POLYGONACEAE					
Rumex crispus	Curly Dock 🕶				
PRIMULACEAE					
Anagallis arvensis	Scarlet Pimpernel 🕶				
RHAMNACEAE					
Ceanothus thrysiflorus	Blue-blossom •				
Rhamnus sp.	Coffeeberry •				
ROSACEAE					
Cotoneaster parneyi	Red Clusterberry • ✓				
Duchesnea indica	Indian Strawberry 🗸				
Eriobotyra japonica	Loquat •				
Prunus trilobata	Double-flowering plum shrub •				
Prunus caroliniana	American Cherry Laurel •				
Prunus persica	Peach ✓				
SOLANACEAE					
Nicotiana glauca	Tree Tobacco 🕶				
TROPAEOLACEAE					
Tropaeolum majus	Garden Nasturtium ✓				
ULMACEAE					
Ulmus parvifolia	Chinese Elm ♦✓				
VERBANACEAE					
Lantana montevidensis	Creeping Lantana 🕶				
VITACEAE <sup>‡</sup>					
Vitis girdiana	Desert Wild Grape ◆✓				

 Longcore, Travis, et al., 1997; Biological Assessment, Coastal Sage Scrub at University of California, Los Angeles; surveys performed winter 1996
 EIP field surveys performed 5 December 2001 and 22 April 2002
 The Northwest Campus Development Phase II Supplemental Environmental Impact Report did not address plant species. Source:

# TABLE A5-2 WILDLIFE SPECIES OBSERVED AND/OR EXPECTED TO OCCUR ON THE UCLA CAMPUS<sup>1,2</sup>

	UCLA CAMPUS"2					
Scientific Name	Common Name					
Amphibians						
PLETHODONTIDAE						
Batrachoseps attenuatus	California slender salamander •					
Reptiles						
IGUANIDAE						
Sceloporus occidentalis	western fence lizard•					
Uta stansburiana	side-blotched lizard 🔶					
Eumeces skiltonianus	western skink 🗸					
Birds						
ACCIPITRIDAE						
Accipiter stiatus	sharp-shinned hawk •					
Acipiter cooperi	Cooper's hawk ◆✓					
Buteo lineatus	red-shouldered hawk •					
Buteo jamaicensis	red-tailed hawk ✓					
FALCONIDAE						
Falco sparverius	American kestrel+					
LARIDAE						
Larus delawarensis	ring-billed gull ✓					
COLUMBIDAE						
Columba livia *	rock dove (common pigeon)					
Streptopelia chinensis *	spotted dove +✓					
Zenaida macroura	mourning dove $+ \bullet \checkmark \Diamond$					
TYTONIDAE						
Tyto alba	barn owl+					
STRIGIDAE						
Bubo virginianus	great horned owl •					
TROCHILIDAE						
Archilochus alexandri	black-chinned hummingbird 🛇					
Calypte anna	Anna's hummingbird + ◆√◊					
Selasphorus sasin	Allen's hummingbird ◆✓◊					
PICIDAE						
Colaptes auratus	northern flicker •					
Picoides pubescences	downy woodpecker 🗸					
TIMALIIDAE						
Chamaea fasciata	wrentit •					
PARIDAE						
Baeolophus inornatus	oak titmouse 🔹					
TROGLODYTIDAE						
Thryomanes bewickii	Bewick's wren ✓◊					

Scientific Name	Common Name					
TYRANNIDAE						
Sayornis nigricans	black phoebe ✔ ♦◊					
an and a second the transmitter of the second se						
HIRUNDINIDAE Historia	cliff swallow •					
Hirundo pyrrhonota						
CORVIDAE						
Aphelocoma californicas	western scrub jay • 🗸 🛇					
Corvus brachyrhynchos	American crow + 🗸 🛇					
Corvus corax	common raven ◆✓◊					
Euphagus cyanocephalus	Brewer's blackbird •					
AEGITHALIDAE						
Psaltriparus minimus	bushtit ◆√◊					
MUSCICAPIDAE						
Regulus calendula	ruby-crowned kinglet 🗸					
Polioptila caerulea	blue-gray gnatcatcher 🗸					
Catharus guttatus	hermit thrush 🗸					
TURDIDAE						
Turdus migratorius	American robin ◆✓◊					
MIMIDAE						
Mimus polyglottos	northern mockingbird + $\bullet \checkmark \Diamond$					
BOMBYCILLIDAE						
Bombycilla cedrorum	cedar waxwing ◆✓◊					
STURNIDAE						
Sturnus vulgaris *	European starling $+\checkmark$					
PARULADAE						
Dendroica coronata	yellow-rumped warbler •√◊					
Dendroica townsendi	Townsend's warbler 🗸					
Wilsonia pusilla	Wilson's warbler ✓					
Vermivora celata	orange-crowned warbler * 🗸 🛇					
Vermivora ruficapilla	Nashville warbler 0					
Geothlypis trichas	common yellowthroat •					
EMBERIZIDAE						
Melospiza melodia	song sparrow ◆✓◊					
Pipilo crissalis	California towhee ◆√◊					
Pipilo erythropthalmus	spotted towhee ◆✓◊					
Zonotrichia atricapilla	golden-crowned sparrow •					
Zonotrichia leucophyrs	white-crowned sparrow •					
ICTERIDAE						
Molothrus ater	brown-headed cowbird+					

TABLE A5-2 WII	WILDLIFE SPECIES OBSERVED AND/OR EXPECTED TO OCCUR ON THE UCLA CAMPUS <sup>1,2</sup>				
Scienti	ific Name Common Name				
FRINGILLIDAE Carpodacus mexicanus Carduelis psaltria Junco hyemalis	house finch + ◆√◊ lesser goldfinch ◆◊ dark-eyed junco+				
PASSERIDAE Passer domesticus *	house sparrow •				
Thraupidae Piranga ludoviciana	western tanager◊				
Mammals					
DIDELPHIDAE Didelphis virginiana *	Virginia opossum •				
CERVIDAE Odocoileus hemionus	mule deer ♦√				
PROCYONIDAE Procyon lotor	raccoon 🗸				
CANIDAE Canis latrans	coyote •				
SCIURIDAE Spermophilus beecheyi Sciurus niger *	California ground squirrel ◆✓ fox squirrel ✓				
GEOMYIDAE Thomomys bottae	Botta's pocket gopher ◆				
MURIDAE Rattus norvegicus * Mus musculus * Neotoma fuscipes	Norway rat house mouse dusky-footed woodrat				
LEPORIDAE Sylvilagus audubonii	Audubon cottontail 🗸 🔶				

Taxonomy and nomenclature follow American Ornithologists' Union (1983) and supplements for birds, and Laundenslayer et al. (1991) for 1. amphibians, reptiles, and mammals.

This is not intended to be an exhaustive list of all bird species that may occur at one time or another on the project sites during their migration; rather, it includes only those species that are most commonly observed in residential areas of coastal Los Angeles County. 2.

Non-native species

Sources: + UCLA Northwest Campus Development Phase II Supplemental EIR. • Longcore, Travis, et al., 1997; Biological Assessment, Coastal Sage Scrub at University of California, Los Angeles; surveys performed winter 1996.

✓ EIP field surveys performed S December 2001.

EIP field surveys performed 22 April 2002.

Appendix 6 Supplementary Geology Information

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# DETAILED DESCRIPTION OF GEOLOGY AND SOILS FOR THE UCLA CAMPUS

This appendix provides information to supplement that provided in Section IV.G (Geology, Soils, and Seismicity) related to seismic hazards and underlying soil characteristics.

Data used in preparation of this section was obtained from various sources, including the General Soil Map of Los Angeles County (Soil Conservation Service 1969); previous environmental documentation and geotechnical reports prepared for the UCLA campus; and other campus data sources. This section also incorporates information gained from personal communication with staff of the California Department of Conservation, Division of Mines and Geology (CDMG) and Geotechnologies, Inc. Full bibliographic entries for all reference material are provided in Subsection 5 (References) of this section.

## **Regional Geology**

The macro-geology of Southern California is composed of several large plates moving relative to each other. The primary line of contact between these plates is the San Andreas Fault zone, which lies about 41 miles northeast of the UCLA campus. The area west of the San Andreas Fault is known as the Pacific Plate, which is moving north relative to the North American Plate that lies on the east side of the fault.

The geologic formations in the Los Angeles Basin belong to two geomorphic provinces: the Transverse Ranges and the Peninsular Ranges. The Peninsular Ranges comprise the coastal mountains that run from Los Angeles to Baja California. The Transverse Ranges trend east-west across the northern part of the Basin and comprise the Santa Monica, Verdugo, and San Gabriel Mountains and the San Fernando Valley. The rock types exposed in the vicinity of the campus include Jurassic (1,763–144 million years old [myo]), Cretaceous (97–66 myo), and Late Miocene (11–5 myo) marine sedimentary rocks. The Peninsular Ranges trend northwest-southeast and comprise numerous groups of hills (e.g., Baldwin Hills, Beverly Hills, Elysian Hills, Renetto Hills) rising toward the Santa Ana Mountains. The sediments exposed in the vicinity of the campus include Pleistocene nonmarine sedimentary deposits (2 million–10 thousand years old). The underlying marine sedimentary rocks are of Late Pleistocene age (more than 2 myo).

The Santa Monica Mountains, to the north of the campus, form the central portion of the Transverse Ranges, running about 275 miles eastward from Point Arguello (just north of Santa Barbara) into the Mojave Desert. Consisting of several large areas of uplifted basement rocks, these mountainous blocks are seismically active and are transected by a north-west-trending branch of the Santa Monica Fault and numerous small faults.

# Local Geology

Situated at the boundary between the Northwestern Block of the Los Angeles Basin (generally, the San Fernando Valley area) and the Southwestern Block (the portion of the basin south of the Santa Monica Mountains), the campus lies near the buried Hollywood Fault and northwest of the Newport-Inglewood Fault. This is a geologically complex location and the UCLA campus is underlain by a variety of rock types.

The rocks of both the Southwest and Northwest Blocks consist chiefly of marine clastic and organic sedimentary strata of middle Miocene to Recent age, including igneous rocks of middle Miocene age. In the vicinity of the campus, the lower sequence consists of marine sandstone, siltstone, and minor amounts of conglomerate and locally containing marine mollusks and foraminifera. These formations, as much as 1,000 feet thick in the area of the campus, evidently were derived from sources east of the Newport-Inglewood Fault and deposited in a shallow marine environment.

## **Campus Soil Types and Characteristics**

UCLA lies on the gently rolling terrain of older alluvial deposits, which were originally deposited as alluvial fan material resulting from erosion of the southern slopes of the Santa Monica Mountains by sediment-loaded streams. The elevated alluvial terrace surfaces in the vicinity of the campus have been incised as a result of flows from the higher elevations of the Santa Monica Mountains in a southerly direction into the Los Angeles Basin. The south-sloping surface topography results from drainage patterns of Dry and Stone Canyons, located north of the campus. Weathered on the surface to a red or brown color, these deposits generally consist of unconsolidated and poorly sorted clays, sands, and gravels that have been uplifted and are often cut by small displacement faults.

Older alluvial deposits of continental origin and Upper Pleistocene (Holocene) and Pleistocene age predominantly underlie the campus. According to the General Soil Map for Los Angeles County (Soil Conservation Service 1969), which is illustrated in Figure 4.5-1 (General Soil Map), the UCLA campus traverses two different mapping units that are named by the major soil series that occur within each unit. These two major soil series are defined as Pleasanton-Ojai and Hanford associations. Soils of these associations occur on gently sloping to moderately sloping alluvial fans and terraces between elevations from near sea level to 3,500 feet. These soils are used extensively for residential and industrial development in the Los Angeles basin.

Pleasanton soils are over 60 inches deep, are well drained, and have moderately slow subsoil permeability. They have light-brown to dark-brown loam or silt loam surface layers from 12 to 36 inches thick. The subsoil is brown to reddish-brown clay or silty clay loam to an average depth of 48 inches. The substratum is very gravelly, stratified material of variable textures. Pleasanton soils occur principally north and northeast of Santa Monica. These soils become more gravelly near the mountains. Available water-holding capacity is from 7.5 to 9.0 inches for 69 inches of soil depth. Inherent fertility is low.

Ojai soils are over 60 inches deep, are well drained, and have moderately slow subsoil permeability. They have grayish-brown and brown, slightly acid loam surface layers about 25 inches thick. The subsoil is reddish-brown and brown, slightly acid and neutral clay loam about 28 inches thick. The substratum is reddish-yellow, slightly acid, sandy loam that has lenses of gravelly sandy loam and is stratified. Available water-holding capacity is from 9.0 to 11.0 inches for 60 inches of soil depth. Inherent fertility is low.

Hanford soils are over 60 inches deep, are well drained, and have moderately rapid subsoil permeability. They have pale-brown coarse sandy loam surface layers about 8 inches thick underlain by light yellowish-brown coarse sandy loam and gravelly loamy coarse sand substratum. Typically they are slightly acid to mildly alkaline throughout but occasionally are calcareous in the lower part. Thin layers of coarser material may occur below 40 inches. Available water-holding capacity is from 5.0 to 7.5 inches for 60 inches of soil depth. Inherent fertility is moderate.

Extensive grading and fill for campus development and landscaping over the last 74 years has resulted in extensive alteration to surface and near-surface natural geologic features. Figure 4.5-1 (General Soil Map) shows the soil patterns as they were presumed to be before urbanization occurred.

Except for the area under the Arroyo Bridge, the large arroyo of Stone Canyon has been completely filled through the east-central portion of the Core Campus. Earth used to fill this area was taken from hilltops adjoining both sides of the arroyo. In fact, man-made fill covers much of the campus to varying depths. Because borrow sites were often near the areas filled, it is sometimes difficult to

distinguish between fill and natural soils. However, explorations for specific campus projects have reported unconsolidated materials and voids.

# Faulting

Based on criteria established by the California Division of Mines and Geology (CDMG), faults may be categorized as active, potentially active, or inactive. Active faults are those that show evidence of displacement within the last 11,000 years. Potentially active faults are those that show evidence of displacement during the last 1.6 million years. Faults showing no evidence of displacement within the last 1.6 million years.

Geologic studies have found that the Los Angeles Basin is a geologically complex area with over one hundred active faults. Studies completed since the Northridge Earthquake of 1994 indicate that the six major fault systems in the Los Angeles area are capable of generating large earthquakes. Many of the faults traversing the Southern California area have the potential of generating strong ground motions in the Los Angeles Basin.

Regionally, the UCLA campus lies within a seismically active area bounded by two important faults in the Santa Monica Fault zone, which contains the Malibu Coast/Santa Monica/Raymond/Sierra Madre/Cucamonga Fault zone and the Newport-Inglewood Fault. Figure 4.5-2 (Regional Seismicity) shows the approximate location of the campus in relation to these major fault systems.

The closest known active fault to the campus is the Hollywood Fault. The next closest known active fault is the Newport-Inglewood Fault. The northern end of the active Alquist-Priolo zoned portion of the Newport-Inglewood Fault is located approximately four miles to the southeast of the southern portion of the campus, while the extreme northern potentially active portion of the fault (which is not designed as an Alquist-Priolo zone by CDMG) is located approximately 2 miles south of the southern portion of the campus. The potentially active Santa Monica Fault is also located in close proximity to the campus. According to Dibblee (1991), the closest segment may lie in close segment may be located approximately 1½ miles south of the southern most portion of the campus.

The potentially active Charnock and Overland Faults are also in relatively close proximity to the campus. The closest traces of the Charnock and Overland Faults are approximately one mile to the south and one mile to the southeast, respectively, of the southern portion of the campus. Other

significant active faults within proximity of the campus include the Malibu Coast Fault, the Palos Verdes Fault, the Sierra Madre–San Fernando Fault, and the Verdugo Fault.

In addition to known faults, movement along buried blind thrust faults that have no obvious surface features can also occur due to the continued north-south compression across the greater Los Angeles area. In fact, until the time of the 1987 Whittier Narrows earthquake, the importance of folds and thrust belts in the region was not fully recognized. The Elysian Park Fault zone is one of these fold and thrust belts, which extends along the east and north flanks of the Los Angeles basin for a distance of approximately 60 miles. The Elysian Park Seismic zone is approximately 13 miles from the campus. Seismologists believe that activity on the Santa Monica thrust fault, the northern extension of the Elysian Park Structure fault, may have played a part in the ground shaking that occurred during the January 1994 Northridge earthquake.

In 1972, the Alquist-Priolo Special Studies Zones Act, now known as the Alquist-Priolo Earthquake Fault Zoning Act, was passed into law. The Act defines "active" and "potentially active" faults utilizing the same aging criteria as that used by the CDMG, which is indicated above. However, the established policy is to "zone" only those potentially active faults that have a relatively high potential for ground rupture. Therefore, not all faults termed "potentially active" by the CDMG are zoned under the Alquist-Priolo Act. There are no known active or potentially active faults at the campus, nor is the campus located in an Earthquake Fault zone as defined by the Alquist-Priolo Earthquake Fault Zoning Act of 1994.

### Historic and Future Seismicity

As with all of Southern California, the UCLA campus has experienced seismic activity from various regional faults. The historic seismic record indicates that sixty-three earthquakes of magnitude 5.0 and greater have occurred within 60 miles of the campus between the years 1800 and 2001, according to the CDMG web site (2001). The seismic potential of an active or potentially active fault is generally evaluated by estimating the magnitude of an earthquake that may be expected to occur along the fault. A commonly used measure of a fault's ability to result in displacement is Maximum Credible Earthquake (MCE), which is defined as the largest earthquake (measured in magnitude [M] on the Richter Scale) that appears to be reasonably capable of occurring under the presently known geologic framework. The MCE resulting in the highest peak horizontal acceleration in the project area would be a magnitude 7.5 event on the Santa Monica–Hollywood Fault.

The strongest, most recent event near the campus was the January 1994 Northridge earthquake (Richter magnitude 6.7). The epicenter of this event was approximately 12 miles north of the campus. The October 1987 Whittier Narrows earthquake (Richter magnitude 5.9) occurred approximately 21 miles east of the campus on a buried thrust fault located beneath the Elysian Park-Montebello Hills area of Los Angeles County. As with the Northridge earthquake, no surface fault ruptures were observed.

Another measure of seismic potential used is the maximum probable earthquake (MPE). The MPE is defined as the largest Richter magnitude seismic event that appears to be reasonably expected within a 100-year period. The MPE associated with the Santa Monica fault would be a magnitude 7.0 event.

MCE and MPE have been used for many years to describe the Richter magnitude of an earthquake that could occur along a particular fault. Recent revisions incorporated by the State into the California Building Code (CBC), based on recommendations identified by the Seismology Committee of the Structural Engineers Association of California, have eliminated the use of MCE and MPE. The 1997 code revisions require that the moment magnitude (Mw) of the "characteristic earthquake" be used in geotechnical calculations for design purposes. The new criteria for describing the energy release (i.e., the "size" of the earthquake along a particular fault segment) were determined by the Seismology Committee to represent a more reliable descriptor of future fault activity than the MCE or the MPE. While the moment magnitude value may differ slightly from the MCE or MPE identified in this EIR, the new method for describing future fault activity does not alter the assumptions or conclusions of this EIR because the development under the LRDP Update would be required by State law and regulation to comply with adopted geotechnical design criteria at the time each structure is designed and constructed.

Estimated maximum earthquake magnitudes resulting from potential seismic activity on various active faults are shown below in Table A6-1 (Estimated Maximum Credible Earthquake Magnitudes [Mw] for Major Faults within 20 Miles of the Campus).

TABLE A6-1	ESTIMATED MAXIMUM EARTHQUAKE MAGNITUDES (Mw) FOR MAJOR FAULTS WITHIN 20 MILES OF THE CAMPUS				
	Fault	Magnitude			
Santa Monica		6.6			
Hollywood		6.4			

Fault	Magnitude		
Malibu Coast	6.7		
Newport-Inglewood (Los Angeles Basin)	6.9		
Northridge (East Oak Ridge)	6.9		
Palos Verdes	7.1		
Compton Thrust	6.8		
Verdugo	6.7		
Elysian Park Thrust	6.7		
Raymond	6.5		
Anacapa-Dume	7.3		
Sierra Madre (San Fernando)	6.7		
Sierra Madre	7.0		
Santa Susana	6.6		
San Gabriel	7.0		

## TABLE A6-1 ESTIMATED MAXIMUM EARTHQUAKE MAGNITUDES (Mw) FOR MAJOR FAULTS WITHIN 20 MILES OF THE CAMPUS

Source: Geotechnologies 2002, Table 1

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Appendix 7 Air Quality Data and Health Risk Assessment

Air Quality Model Output

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### TOTAL OPERATIONAL EMISSIONS

# Project Number: 10328-07 Project Name: UCLA LRDP Update

### Existing Daily Campus Emissions

Emissions Source	Regular Session Emissions in Pounds per Day				Summer Session Emissions in Pounds per Day					
	co	ROC	NOx	SOx	PM <sub>10</sub>	co	ROC	NOx	SOx	PM <sub>10</sub>
Construction Activities	209.6	37.5	298.2	10.8	24.9	209.6	37.5	298.2	10.8	24.9
Stationary Sources	631.2	44.4	163.3	69.6	73.4	631.2	44.4	163.3	69.6	73.4
Landscape Maintenance	31.9	4.9	0.2	0.0	0.1	31.9	4.9	0.2	0.0	0.1
Consumer Products		114.2					12.2			
Motor Vehicles	15,379.3	1,251.4	1,632.9	7.4	785.3	14,681.5	1,180.6	1,563.3	6.6	696.6
Totals	16,252.0	1,452.4	2,094.6	87.8	883.7	15,554.2	1,279.6	2,025.0	87.0	795.0

Future Without Project Daily Campus Emissions (Year 2010)

Emissions Source			jular Session in Pounds p		Summer Session Emissions in Pounds per Day						
	co	ROC	NOx	SOx	PM10	co	ROC	NOx	SOx	PM10	
Construction Activities	163.9	31.0	265.3	10.8	45.0	163.9	31.0	265.3	10.8	45.0	
Stationary Sources	699.7	49.2	181.0	77.1	81.4	699.7	49.2	181.0	77.1	81.4	
Landscape Maintenance	35.4	5.4	0.2	0.0	0.1	35.4	5.4	0.2	0.0	0.1	
Consumer Products		148.4					46.4				
Motor Vehicles	10,169.7	917.7	965.0	5.5	841.6	8,875.5	800.9	842.2	4.8	734.5	
Totals	11,068.7	1,151.7	1,411.5	93.4	968.1	9,774.5	932.9	1,288.7	92.7	861.0	

Future With LRDP Update Daily Campus Emissions (Year 2010)

			gular Session in Pounds p		Summer Session Emissions in Pounds per Day					
Emissions Source	co	ROC	NOx	SOx	PM <sub>10</sub>	co	ROC	NOx	SOx	PM10
Construction Activities	163.9	31.0	265.3	10.8	45.0	163.9	31.0	265.3	10.8	45.0
Stationary Sources	777.3	54.7	201.1	85.7	90.4	777.3	54.7	201.1	85.7	90.4
Landscape Maintenance	39.3	6.0	0.2	0.0	0.1	39.3	6.0	0.2	0.0	0.1
Consumer Products		177.0					49.5			
Motor Vehicles	10,274.7	927.2	975.0	5.5	850.3	9,699.9	875.3	920.5	5.2	802.7
Totals	11,255.2	1,195.9	1,441.6	102.0	985.8	10,680.4	1,016.5	1,387.1	101.7	938.2

### LRDP Update Without TDM Daily Campus Emissions (Year 2010)

			gular Session s in Pounds p		Summer Session Emissions in Pounds per Day					
Emissions Source	CO	ROC	NOx	SOx	PM <sub>10</sub>	co	ROC	NOx	SOx	PM10
Construction Activities	163.9	31.0	265.3	10.8	45.0					
Stationary Sources	777.3	54.7	201.1	85.7	90.4					
Landscape Maintenance	39.3	6.0	0.2	0.0	0.1					
Consumer Products		177.0								
Motor Vehicles	11,010.9	993.6	1,044.9	5.9	911.2					
Totals	11,991.4	1,262.3	1,511.5	102.4	1,046.7	0.0	0.0	0.0	0.0	0.0

#### Net Increase in Daily Campus Emissions (Year 2010)

			gular Session in Pounds p		Summer Session Emissions in Pounds per Day					
Analysis Condition	co	ROC	NOx	SOx	PM10	co	ROC	NOx	SOx	PM10
Total LRDP Baseline	11,068.7	1,151.7	1,411.5	93.4	968.1	9,774.5	932.9	1,288.7	92.7	861.0
Total LRDP Update	11,255.2	1,195.9	1,441.6	102.0	985.8	10,680.4	1,016.5	1,387.1	101.7	938.2
Net Increase	186.5	44.2	30.1	8.6	17.7	905.9	83.6	98.4	9.0	77.2

### TDM Reduction in Daily Campus Emissions (Year 2010)

	Regular Session Emissions in Pounds per Day						Summer Session Emissions in Pounds per Day				
Analysis Condition	CO	ROC	NOx	SOx	PM10	co	ROC	NOx	SOx	PM10	
Total LRDP Update	11,255.2	1,195.9	1,441.6	102.0	985.8						
LRDP Update Without TDM	11,991.4	1,262.3	1,511.5	102.4	1,046.7						
Net Reduction	736.2	66.4	69.9	0.4	60.9	0.0	0.0	0.0	0.0	0.0	
Percent Reduction	6.1%	5.3%	4.6%	0.4%	5.8%						

#### CONSTRUCTION EMISSIONS ESTIMATES **CONSTRUCTION PHASE - Existing Campus Construction Activities**

# Project Number: 10328-07 Project Name: UCLA LRDP Update

# Construction Equipment Emissions Emissions = F x G x H

	F	G			н								
	Hours/ Emission Factors in Pounds per Hour <sup>1</sup>							Emissions in Pounds per Day					
Equipment Type	Quantity	Day	CO	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10	
Generator Sets	13	2	1.479	0.054	0.002	0.0006	0.00025	38.5	1.4	0.1	0.0	0.0	
Fork Lift - 50 Hp	6	6	0.18	0.053	0.441	0	0.031	6.5	1.9	15.9	0.0	1.1	
Fork Lift - 175 Hp	3	6	0.52	0.17	1.54	0	0.93	9.4	3.1	27.7	0.0	16.7	
Water Truck	2	4	1.8	0.19	4.17	0.45	0.26	14.4	1.5	33.4	3.6	2.1	
Tracked Loader	0	8	0.201	0.095	0.83	0.076	0.059		-				
Tracked Tractor	0	8	0.35	0.12	1.26	0.14	0.112			-		-	
Scraper	0	7	1.25	0.27	3.84	0.46	0.41	-	-	-			
Wheeled Dozer	1	6	0.572	0.12	0.713	0.35	0.165	3.4	0.7	4.3	2.1	1.0	
Wheeled Loader	3	6	0.572	0.23	1.9	0.182	0.17	10.3	4.1	34.2	3.3	3.1	
Wheeled Tractor	0	8	3.58	0.18	1.27	0.09	0.14			-		-	
Roller	0	8	0.3	0.065	0.87	0.067	0.05	-	-				
Motor Grader	0	8	0.151	0.039	0.713	0.086	0.061			-	-	-	
Miscellaneous	0	в	0.675	0.15	1.7	0.143	0.14		-				
Crane	4	6	0.75078	0.25026	1.91866	0.16684	0.12513	18.0	6.0	46.0	4.0	3.0	
Backhoe	3	3.5	0.572	0.23	1.9	0.17	0.182	6.0	2.4	20.0	1.8	1.9	
Paving Equipment	0	8	0.675	0.15	1.7	0.143	0.14					-	
Subtotal								106.4	21.2	181.5	14.8	28.9	

<sup>1</sup> Emission Factors from SCAQMD CEQA Air Quality Handbook (1993), Tables A9-8-A, A9-8-B, A9-8-C, and A9-8-D.

# On-Road Vehicle Source Emissions Emissions = F x G x H x I

	F	G Trips/	H Miles/	Emission	n Factors in	Pounds per 1	00 Trips	per Mile		Emissions	in Pounds p	er Day	
Vehicle Type	Quantity	Vehicle	Trip	co	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM10
Haul Trucks <sup>2</sup>	80	2	50	1.42511	0.22467	1.982379	0	0.012118	114.0	18.0	158.6	0.0	1.0
Construction Employees <sup>3</sup>	90	3.7	-	2.2	0.82	1.16	0	0.22	7.3	2.7	3.9	0.0	0.7
Subtotal									121.3	20.7	162.5	0.0	1.7

<sup>2</sup> Emission factors from EMFAC7G (Year 2001, 100% heavy-duty diesel, 90F) <sup>3</sup> Emission factors from URBEMIS7G (Year 2001, construction worker trips)

# Stationary Source Emissions Emissions = F x G

	F Units or	G ctors in Poun	ds per Day	Emissions	in Pounds p	er Day	
Emissions Source	1,000 sf	ROC	NOx	PM <sub>10</sub>	ROC	NOx	PM <sub>10</sub>
Stationary Sources	0	0.168	0.137	0.008	0.0	0.0	0.0

<sup>4</sup> Emission Factors from URBEMIS7G (2000).

Asphalt Paving ROC Emissions = 2.62 lbs per acre x A / B<sup>5</sup>

	A Acres of	B Days of	ROC Emissions
Emissions Source	Paving	Paving	(lbs/day)
Asphalt Paving	0	1	0.0

<sup>5</sup> Emission Factors from URBEMIS7G (2000).

Architectural Coatings ROC Emissions = 0.0185 lbs per square foot x A<sup>6</sup>

A

	Surface	ROC
	Areal	Emissions
Emissions Source	Day	(Ibs/day)
Architectural Coatings	0	0.0

<sup>6</sup> Emission Factors from URBEMIS7G (2000).

#### **Total Construction Phase Emissions**

	Emissions in Pounds per Day								
Emissions Source	co	ROC	NOx	SOx	PM10				
Construction Equipment	106.4	21.2	181.5	14.8	28.9				
On-Road Vehicles	121.3	20.7	162.5	0.0	1.7				
Stationary Equipment		0.0	0.0	-	0.0				
Asphalt Paving	-	0.0							
Architectural Coatings		0.0							
Total	227.8	41.9	343.9	14.8	30.6				

### CONSTRUCTION EMISSIONS ESTIMATES SITE EXCAVATION AND GRADING PHASE

### Project Number: 10328-07 Project Name: UCLA LRDP

Construction Scenario: Scenario 1: Construction of Hedrick North, Excavation for Dykstra Parking, and Sproul 1st Floor Renovation

### **Construction Equipment Emissions**

Emissions = F x G x H

	F	G			н							
		Hours/	En	ission Fact	tors in Pour	nds per Hor	ur <sup>1</sup>		Emissions	in Pounds p	er Day	
Equipment Type	Quantity	Day	co	ROC	NO <sub>x</sub>	SO,	PM <sub>10</sub>	co	ROC	NO <sub>x</sub>	SO,	PM <sub>to</sub>
Generator Sets <50 HP	6	2	1.479	0.054	0.002	0.0006	0.00025	17.7	0.6	0.0	0.0	0.0
Fork Lift - 50 Hp	2	5	0.18	0.053	0.441	0	0.031	1.8	0.5	4.4	0.0	0.3
Fork Lift - 175 Hp	4	5	0.52	0.17	1.54	0	0.93	10.4	3.4	30.8	0.0	18.6
Water Truck	1	2	1.8	0.19	4.17	0.45	0.26	3.6	0.4	8.3	0.9	0.5
Tracked Loader	0	6	0.201	0.095	0.83	0.076	0.059					-
Tracked Tractor	0	6	0.35	0.12	1.26	0.14	0.112	-		-	-	-
Scraper	1	7	1.25	0.27	3.84	0.46	0.41	8.8	1.9	26.9	3.2	2.9
Wheeled Dozer	1	5	0.572	0.12	0.713	0.35	0.165	2.9	0.6	3.6	1.8	0.8
Wheeled Loader	2	5	0.572	0.23	1.9	0.182	0.17	5.7	2.3	19.0	1.8	1.7
Wheeled Tractor	0	6	3.58	0.18	1.27	0.09	0.14	-	-	-	-	-
Roller	0	6	0.3	0.065	0.87	0.067	0.05			-	-	-
Motor Grader	0	6	0.151	0.039	0.713	0.086	0.061	- 1				
Crane	2	4	0.75078	0.25026	1.91866	0.16684	0.12513	6.0	2.0	15.3	1.3	1.0
Backhoe	3	3.5	0.572	0.23	1.9	0.17	0.182	6.0	2.4	20.0	1.8	1.9
Miscellaneous	0	6	0.675	0.15	1.7	0.143	0.14	-		-	-	-
Subtotal								62.9	14.2	128.3	10.8	27.7

<sup>1</sup> Emission Factors from SCAQMD CEQA Air Quality Handbook (1993), Tables A9-8-A, A9-8-B, A9-8-C, and A9-8-D.

**On-Road Vehicle Source Emissions** 

### Emissions = F x G x H x I

	F	G Trips/	H Miles/	Emission	Factors in	I Pounds per 1	100 Trips	per Mile		Emissions	in Pounds p	er Day	
Vehicle Type	Quantity	Vehicle	Trip	co	ROC	NOx	SO <sub>x</sub>	PM <sub>10</sub>	co	ROC	NOx	SO,	PM10
Haul Trucks <sup>2</sup>	68	2	50	1.42511	0.22467	1.982379	0	0.012118	96.9	15.3	134.8	0.0	0.8
Construction Employees <sup>3</sup>	50	3.7	10.6	2.2	0.82	1.16	0	0.22	4.1	1.5	2.1	0.0	0.4
Subtotal									101.0	16.8	136.9	0.0	1.2

<sup>2</sup> Emission factors from EMFAC7G (Year 2001, 100% heavy-duty diesel, 90F)

<sup>3</sup> Emission factors from URBEMIS7G (Year 2001, construction worker trips)

### Site Grading

PM<sub>10</sub> Emissions = (10.0 lbs per day x A) - B<sup>4</sup>

	А	c	)	PM <sub>10</sub>
	Acres/	Rule 403	Reduction	Emissions
Emissions Source	Day	%	lbs	(lbs/day)
Site Grading	5	68%	34.0	16.0

<sup>4</sup> Emission Factors from URBEMIS7G (2000).

### **Total Site Grading Phase Emissions**

	Emissions in Pounds per Day							
Emissions Source	co	ROC	NOx	SO,	PM10			
Construction Equipment	62.9	14.2	128.3	10.8	27.7			
On-Road Vehicles	101.0	16.8	136.9	0.0	1.2			
Site Grading	-		-	-	16.0			
Total	163.9	31.0	265.3	10.8	45.0			
SCAQMD Threshold	550.0	75.0	100.0	150.0	150.0			
Exceeds Threshold?	No	No	Yes	No	No			

### CONSTRUCTION EMISSIONS ESTIMATES SITE EXCAVATION AND GRADING PHASE

#### Project Number: 10328-07 Project Name: UCLA LRDP

Construction Scenario: Scenario 2: Construction of Hedrick North, Dykstra Parking, Rieber North, and Rieber West, and Renovation of Hedrick 1st Floor

### **Construction Equipment Emissions**

Emissions = F x G x H

	F	G			н							
		Hours/	Err	hission Fact	ors in Pour	nds per Hor	ur <sup>1</sup>		Emissions	in Pounds p	er Day	
Equipment Type	Quantity	Day	co	ROC	NOx	SO,	PM <sub>10</sub>	CO	ROC	NOx	SO,	PM10
Generator Sets <50 HP	12	2	1.479	0.054	0.002	0.0006	0.00025	35.5	1.3	0.0	0.0	0.0
Fork Lift - 50 Hp	4	5	0.18	0.053	0.441	0	0.031	3.6	1.1	8.8	0.0	0.6
Fork Lift - 175 Hp	8	5	0.52	0.17	1.54	0	0.93	20.8	6.8	61.6	0.0	37.2
Water Truck	0	2	1.8	0.19	4.17	0.45	0.26	-		-		-
Tracked Loader	0	6	0.201	0.095	0.83	0.076	0.059		-		-	
Tracked Tractor	0	6	0.35	0.12	1.26	0.14	0.112		-	-	-	-
Scraper	0	7	1.25	0.27	3.84	0.46	0.41		-		-	
Wheeled Dozer	0	5	0.572	0.12	0.713	0.35	0.165		-			
Wheeled Loader	3	5	0.572	0.23	1.9	0.182	0.17	8.6	3.5	28.5	2.7	2.6
Wheeled Tractor	0	6	3.58	0.18	1.27	0.09	0.14					-
Roller	0	6	0.3	0.065	0.87	0.067	0.05	-		-		-
Motor Grader	0	6	0.151	0.039	0.713	0.086	0.061			-		-
Crane	5	4	0.75078	0.25026	1.91866	0.16684	0.12513	15.0	5.0	38.4	3.3	2.5
Backhoe	5	3.5	0.572	0.23	1.9	0.17	0.182	10.0	4.0	33.3	3.0	3.2
Miscellaneous	0	6	0.675	0.15	1.7	0.143	0.14			-		-
Subtotal								93.5	21.6	170.6	9.1	46.1

<sup>1</sup> Emission Factors from SCAQMD CEQA Air Quality Handbook (1993), Tables A9-8-A, A9-8-B, A9-8-C, and A9-8-D.

#### **On-Road Vehicle Source Emissions**

Emissions = F x G x H x I

	F	G Trips/	H Miles/	Emission	Factors in	I Pounds per	100 Trips	per Mile		Emissions i	n Pounds p	er Day	
Vehicle Type	Quantity	Vehicle	Trip	co	ROC	NOx	SQ,	PM <sub>10</sub>	co	ROC	NOx	SO,	PM <sub>10</sub>
Haul Trucks <sup>2</sup>	8	2	50	1.42511	0.22467	1.982379	0	0.012118	11.4	1.8	15.9	0.0	0.1
Construction Employees <sup>3</sup>	70	3.7	10.6	2.2	0.82	1.16	0	0.22	5.7	2.1	3.0	0.0	0.6
Subtotal									17.1	3.9	18.9	0.0	0.7

<sup>2</sup> Emission factors from EMFAC7G (Year 2001, 100% heavy-duty diesel, 90F)

<sup>3</sup> Emission factors from URBEMIS7G (Year 2001, construction worker trips)

### Site Grading

PM<sub>10</sub> Emissions = (10.0 lbs per day x A) - B<sup>4</sup>

	A	C	)	PM <sub>10</sub>
	Acres/	Rule 403	Reduction	Emissions
Emissions Source	Day	%	lbs	(lbs/day)
Site Grading	0	68%	0.0	0.0

<sup>4</sup> Emission Factors from URBEMIS7G (2000).

### **Total Site Grading Phase Emissions**

	Emissions in Pounds per Day							
Emissions Source	co	ROC	NOx	SO,	PM <sub>10</sub>			
Construction Equipment	93.5	21.6	170.6	9.1	46.1			
On-Road Vehicles	17.1	3.9	18.9	0.0	0.7			
Site Grading		-			0.0			
Total	110.6	25.6	189.5	9.1	46.7			
SCAQMD Threshold	550.0	75.0	100.0	150.0	150.0			
Exceeds Threshold?	No	No	Yes	No	No			

### BUILDING NUMBERS AND SQUARE FOOTAGE

	Exis	ting	Under Cons	t./Approved	LRDP Base	eline Total	Propose	d LRDP	Total Wit	h LRDP
ZONE	Square Feet	Buildings	Square Feet	Buildings	Square Feet	Buildings	Square Feet	Buildings	Square Feet	Buildings
Botanical Garden	0	0	19,100	1	19,100	1			19,100	1
Bridge	330,568	4	0	0	330,568	4			330,568	4
Campus Services	411,072	8	0	0	411,072	8			411,072	8
Central	1,007,125	15	69,950	3	1,077,075	18			1,077,075	18
Core - North	2,609,439	35	138,600	3	2,748,039	38			2,748,039	38
Core South	3,662,968	33	514,280	3	4,177,248	36			4,177,248	36
Health Sciences	3,287,991	24	-183,595	-2	3,104,396	22			3,104,396	22
Northwest	2,100,079	40	65,100	1	2,165,179	41			2,165,179	41
Southwest	472,453	13	882,000	1	1,354,453	14			1,354,453	14
Other	0	0	0	0	0	0	1,706,500	10	1,706,500	10
Totals	13,881,695	172	1,505,435	10	15,387,130	182	1,706,500	10	17.093.630	192
	100.0%		10.8%		110.8%		12.3%		123.1%	

### STATIONARY SOURCE EMISSIONS

Analysis Scenario	Percent of		Emiss	ions in Tons Per	Year	
Existing Uses and Operations	Existing	CO	VOC	NOx	SOx	PM10
		115.2	8.1	29.8	12.7	13.4
	т	nis Equates to				
			Emissi	ons in Pounds P	er Day	
		CO	VOC	NOx	SOx	PM10
Existing Uses and Operations	100.0%	631.2	44.4	163.3	69.6	73.4
LRDP Baseline Uses and Oper-	110.8%	699.7	49.2	181.0	77.1	81.4
Total with LRDP Update	123.1%	777.3	54.7	201.1	85.7	90.4
LANDSCAPE MAINTENANCE	EMISSIONS					
	Number of			Factors in Pound		-
Analysis Scenario	'Business Units'	CO	VOC	NOx	SOx	PM10
		1.149	0.175	0.007	0	0.0041
l						

			Emissi	ons in Pounds F	Per Day	
		CO	VOC	NOx	SOx	PM10
Existing Uses and Operations	28	31.9	4.9	0.2	0.0	0.1
LRDP Baseline Uses and Oper.	31	35.4	5.4	0.2	0.0	0.1
Total with LRDP Update	34	39.3	6.0	0.2	0.0	0.1

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### URBEMIS 2001 For Windows 6.2.2

File Name: Project Name: Project Location: C:\Program Files\URBEMIS 2001 For Windows\Projects2k\UCLA LRDP Fut UCLA LRDP Update - Future Baseline Use Traffic Volumes in 2010 - R South Coast Air Basin (Los Angeles area)

SUMMARY REPORT (Pounds/Day - Summer)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

			ROG	NOx	CO	PM10	S02
TOTALS	(ppd,	unmitigated)	917.72	965.03	10,169.67	841.61	5.46

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#### URBEMIS 2001 For Windows 6.2.2

File Name: Project Name: Project Location: C:\Program Files\URBEMIS 2001 For Windows\Projects2k\UCLA LRDP Fut UCLA LRDP Update - Future Baseline Use Traffic Volumes in 2010 - R South Coast Air Basin (Los Angeles area)

DETAIL REPORT (Pounds/Day - Summer)

### UNMITIGATED OPERATIONAL EMISSIONS

University/college (4 yrs	ROG	NOx	CO	PM10	SO2
	917.72	965.03	10,169.67	841.61	5.46
TOTAL EMISSIONS (lbs/day)	917.72	965.03	10,169.67	841.61	5.46

Includes correction for passby trips. Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 70 Season: Summer

EMFAC Version: EMFAC2001 (10/2001)

Summary of Land Uses:

Unit Type	Trip Rate	Size Total Trips		
University/college	(4 yrs128,056.00 trips / UCLA campus	1.00	128,056.00	

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	68.23	4.70	94.50	0.80
Light Truck < 3,750 lbs	10.33	11.00	88.90	0.10
Light Truck 3,751- 5,750	18.56	1.80	97.60	0.60
Med Truck 5,751- 8,500	0.30	12.50	79.20	8.30
Lite-Heavy 8,501-10,000	0.05	18.20	72.70	9.10
Lite-Heavy 10,001-14,000	0.01	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.05	9.10	27.30	63.60
Heavy-Heavy 33,001-60,000	0.03	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.00	0.00	0.00	100.00
Motorcycle	1.56	90.90	9.10	0.00
School Bus	0.11	0.00	0.00	100.00
Motor Home	0.77	0.00	100.00	0.00

Travel Conditions						
	Residential		Commercial			
	Home -	Home-	Home-			
	Work	Shop	Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
<pre>% of Trips - Residential</pre>	20.0	37.0	43.0			

% of Trips - Commercial (by land use) University/college (4 yrs)

5.0 2.5 92.5

Page: 4

Changes made to the default values for Operations The mitigation option switch changed from on to off. The light auto percentage changed from 61.4 to 68.23. The light truck < 3750 lbs percentage changed from 9.3 to 10.33. The light truck 3751-5750 percentage changed from 16.7 to 18.56. The med truck 5751-8500 percentage changed from 7.2 to 0.30. The lite-heavy truck 8501-10000 percentage changed from 1.1 to 0.05. The lite-heavy truck 10001-14000 percentage changed from 0.3 to 0.01. The med-heavy truck 14001-33000 percentage changed from 1.1 to 0.05. The heavy-heavy truck 33001-60000 percentage changed from 0.7 to 0.03. The motorcycle percentage changed from 1.4 to 1.56. The school bus percentage changed from 0.1 to 0.11. The motorhome percentage changed from 0.7 to 0.77. The operational emission year changed from 2002 to 2010. The operational winter selection item changed from 3 to 2. The operational summer temperature changed from 90 to 70. The operational summer selection item changed from 8 to 4. The travel mode environment settings changed from both to: none The default/nodefault travel setting changed from nodefault to: nodefault Side Walks/Paths: No Sidewalks changed to: Side Walks/Paths: Complete Coverage Street Trees Provide Shade: No Coverage changed to:Street Trees Provide Shade: Moderate Coverage Pedestrian Circulation Access: No Destinations changed to: Pedestrian Circulation Access: Most Destinations Visually Interesting Uses: No Uses Within Walking Distance changed to: Visually Interesting Uses: Large Number and Variety Street System Enhances Safety: No Streets changed to: Street System Enhances Safety: Most Streets Pedestrian Safety from Crime: No Degree of Safety changed to: Pedestrian Safety from Crime: High Degree of Safety Visually Interesting Walking Routes: No Visual Interest changed to: Visually Interesting Walking Routes: Moderate Level Transit Service: Dial-A-Ride or No Transit Service changed to: Transit Service: 15-30 Minute Bus within 1/4 Mile Interconnected Bikeways: No Bikeway Coverage changed to: Interconnected Bikeways: Moderate Coverage Bike Routes Provide Paved Shoulders: No Routes changed to: Bike Routes Provide Paved Shoulders: Few Routes Safe Vehicle Speed Limits: No Routes Provided changed to:Safe Vehicle Speed Limits: Few Destinations Safe School Routes: No Schools changed to: Safe School Routes: University/College Within Cycling Distance Uses w/in Cycling Distance: No Uses w/in Cycling Distance changed to:Uses w/in Cycling Distance: Large Number and Variety Mitigation measure Project Density Meets Transit Level of Service Requirements:6 has been changed from off to on. Mitigation measure Provide Transit Shelters Benches:2 has been changed from off to on. Mitigation measure Provide Street Lighting:0.5 has been changed from off to on. Mitigation measure Provide Route Signs and Displays:0.5 has been changed from off to on. Mitigation measure Provide Bus Turnouts:1 has been changed from off to on.

Page: 1

URBEMIS 2001 For Windows 6.2.2

File Name: Project Name: Project Location: C:\Program Files\URBEMIS 2001 For Windows\Projects2k\UCLA LRDP Fut UCLA LRDP Update - Future Baseline Use Traffic Volumes in 2010 - S South Coast Air Basin (Los Angeles area)

SUMMARY REPORT (Pounds/Day - Summer)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

		ROG	NOx	CO	PM10	S02
TOTALS (ppd,	unmitigated)	800.94	842.23	8,875.51	734.51	4.77

### URBEMIS 2001 For Windows 6.2.2

File Name: Project Name: Project Location: C:\Program Files\URBEMIS 2001 For Windows\Projects2k\UCLA LRDP Fut UCLA LRDP Update - Future Baseline Use Traffic Volumes in 2010 - S South Coast Air Basin (Los Angeles area)

DETAIL REPORT (Pounds/Day - Summer)

# UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	PM10	SO2
University/college (4 yrs	800.94	842.23	8,875.51	734.51	4.77
TOTAL EMISSIONS (lbs/day)	800.94	842.23	8,875.51	734.51	4.77

Includes correction for passby trips. Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 70 Season: Summer

EMFAC Version: EMFAC2001 (10/2001)

Summary of Land Uses:

Unit Type	Trip Rate	Size T	otal Trips
University/college	(4 yrs111,760.00 trips / UCLA campus	1.00	111,760.00

Vehicle Assumptions:

Travel Conditions

Fleet Mix:

Vehicle Type F	ercent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	68.23	4.70	94.50	0.80
Light Truck < 3,750 lbs	10.33	11.00	88.90	0.10
Light Truck 3,751- 5,750	18.56	1.80	97.60	0.60
Med Truck 5,751- 8,500	0.30	12.50	79.20	8.30
Lite-Heavy 8,501-10,000	0.05	18.20	72.70	9.10
Lite-Heavy 10,001-14,000	0.01	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.05	9.10	27.30	63.60
Heavy-Heavy 33,001-60,000	0.03	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.00	0.00	0.00	100.00
Motorcycle	1.56	90.90	9.10	0.00
School Bus	0.11	0.00	0.00	100.00
Motor Home	0.77	0.00	100.00	0.00

	Residential			Commercial		
	Home- Work	Home- Shop	Home- Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
<pre>% of Trips - Residential</pre>	20.0	37.0	43.0			

% of Trips - Commercial (by land use) University/college (4 yrs)

# Changes made to the default values for Operations

The mitigation option switch changed from on to off. The light auto percentage changed from 61.4 to 68.23. The light truck < 3750 lbs percentage changed from 9.3 to 10.33. The light truck 3751-5750 percentage changed from 16.7 to 18.56. The med truck 5751-8500 percentage changed from 7.2 to 0.30. The lite-heavy truck 8501-10000 percentage changed from 1.1 to 0.05. The lite-heavy truck 10001-14000 percentage changed from 0.3 to 0.01. The med-heavy truck 14001-33000 percentage changed from 1.1 to 0.05. The heavy-heavy truck 33001-60000 percentage changed from 0.7 to 0.03. The motorcycle percentage changed from 1.4 to 1.56. The school bus percentage changed from 0.1 to 0.11. The motorhome percentage changed from 0.7 to 0.77. The operational emission year changed from 2002 to 2010. The operational winter selection item changed from 3 to 2. The operational summer temperature changed from 90 to 70. The operational summer selection item changed from 8 to 4. The travel mode environment settings changed from both to: none The default/nodefault travel setting changed from nodefault to: nodefault Side Walks/Paths: No Sidewalks changed to: Side Walks/Paths: Complete Coverage Street Trees Provide Shade: No Coverage changed to:Street Trees Provide Shade: Moderate Coverage Pedestrian Circulation Access: No Destinations changed to: Pedestrian Circulation Access: Most Destinations Visually Interesting Uses: No Uses Within Walking Distance changed to: Visually Interesting Uses: Large Number and Variety Street System Enhances Safety: No Streets changed to: Street System Enhances Safety: Most Streets Pedestrian Safety from Crime: No Degree of Safety changed to: Pedestrian Safety from Crime: High Degree of Safety Visually Interesting Walking Routes: No Visual Interest changed to: Visually Interesting Walking Routes: Moderate Level Transit Service: Dial-A-Ride or No Transit Service changed to: Transit Service: 15-30 Minute Bus within 1/4 Mile Interconnected Bikeways: No Bikeway Coverage changed to: Interconnected Bikeways: Moderate Coverage Bike Routes Provide Paved Shoulders: No Routes changed to: Bike Routes Provide Paved Shoulders: Few Routes Safe Vehicle Speed Limits: No Routes Provided changed to:Safe Vehicle Speed Limits: Few Destinations Safe School Routes: No Schools changed to: Safe School Routes: University/College Within Cycling Distance Uses w/in Cycling Distance: No Uses w/in Cycling Distance changed to: Uses w/in Cycling Distance: Large Number and Variety Mitigation measure Project Density Meets Transit Level of Service Requirements:6 has been changed from off to on. Mitigation measure Provide Transit Shelters Benches:2 has been changed from off to on. Mitigation measure Provide Street Lighting:0.5 has been changed from off to on. Mitigation measure Provide Route Signs and Displays:0.5 has been changed from off to on. Mitigation measure Provide Bus Turnouts:1 has been changed from off to on.

# URBEMIS 2001 For Windows 6.2.2

File Name: Project Name: Project Location: C:\Program Files\URBEMIS 2001 For Windows\Projects2k\UCLA LRDP Pro UCLA LRDP Update - LRDP Traffic Volumes in 2010 - Regular Session South Coast Air Basin (Los Angeles area)

# SUMMARY REPORT (Pounds/Day - Summer)

OPERATIONAL	(VEHICLE)	EMISSION	ESTIMATE	S			
			ROG	NOx	CO	PM10	SO2
TOTALS (ppd	l, unmitiga	ated)	927.20	975.00	10,274.66	850.30	5.52

# URBEMIS 2001 For Windows 6.2.2

File Name: Project Name: Project Location: C:\Program Files\URBEMIS 2001 For Windows\Projects2k\UCLA LRDP Pro UCLA LRDP Update - LRDP Traffic Volumes in 2010 - Regular Session South Coast Air Basin (Los Angeles area)

DETAIL REPORT (Pounds/Day - Summer)

### UNMITIGATED OPERATIONAL EMISSIONS

University/college (4 yrs	ROG	NOx	CO	PM10	SO2
	927.20	975.00	10,274.66	850.30	5.52
TOTAL EMISSIONS (lbs/day)	927.20	975.00	10,274.66	850.30	5.52

Includes correction for passby trips. Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 70 Season: Summer

EMFAC Version: EMFAC2001 (10/2001)

Summary of Land Uses:

Unit Type	Trip Rate	Size I	Total Trips
University/college	(4 yrs129,378.00 trips / UCLA campus	1.00	129,378.00

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	68.23	4.70	94.50	0.80
Light Truck < 3,750 lbs	s 10.33	11.00	88.90	0.10
Light Truck 3,751- 5,750	0 18.56	1.80	97.60	0.60
Med Truck 5,751- 8,50	0.30	12.50	79.20	8.30
Lite-Heavy 8,501-10,000	0.05	18.20	72.70	9.10
Lite-Heavy 10,001-14,00	0 0.01	0.00	66.70	33.30
Med-Heavy 14,001-33,00	0.05	9.10	27.30	63.60
Heavy-Heavy 33,001-60,00	0.03	0.00	0.00	100.00
Line Haul > 60,000 lbs	s 0.00	0.00	0.00	100.00
Urban Bus	0.00	0.00	0.00	100.00
Motorcycle	1.56	90.90	9.10	0.00
School Bus	0.11	0.00	0.00	100.00
Motor Home	0.77	0.00	100.00	0.00

Trave.	L Cond	lition	S
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	Residential			Commercial		
	Home- Work	Home - Shop	Home- Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

% of Trips - Commercial (by land use)
University/college (4 yrs)

2.5 5.0 92.5

Changes made to the default values for Operations The mitigation option switch changed from on to off. The light auto percentage changed from 61.4 to 68.23. The light truck < 3750 lbs percentage changed from 9.3 to 10.33. The light truck 3751-5750 percentage changed from 16.7 to 18.56. The med truck 5751-8500 percentage changed from 7.2 to 0.30. The lite-heavy truck 8501-10000 percentage changed from 1.1 to 0.05. The lite-heavy truck 10001-14000 percentage changed from 0.3 to 0.01. The med-heavy truck 14001-33000 percentage changed from 1.1 to 0.05. The heavy-heavy truck 33001-60000 percentage changed from 0.7 to 0.03. The motorcycle percentage changed from 1.4 to 1.56. The school bus percentage changed from 0.1 to 0.11. The motorhome percentage changed from 0.7 to 0.77. The operational emission year changed from 2002 to 2010. The operational winter selection item changed from 3 to 2. The operational summer temperature changed from 90 to 70. The operational summer selection item changed from 8 to 4. The travel mode environment settings changed from both to: none The default/nodefault travel setting changed from nodefault to: nodefault Side Walks/Paths: No Sidewalks changed to: Side Walks/Paths: Complete Coverage Street Trees Provide Shade: No Coverage changed to:Street Trees Provide Shade: Moderate Coverage Pedestrian Circulation Access: No Destinations changed to: Pedestrian Circulation Access: Most Destinations Visually Interesting Uses: No Uses Within Walking Distance changed to: Visually Interesting Uses: Large Number and Variety Street System Enhances Safety: No Streets changed to: Street System Enhances Safety: Most Streets Pedestrian Safety from Crime: No Degree of Safety changed to: Pedestrian Safety from Crime: High Degree of Safety Visually Interesting Walking Routes: No Visual Interest changed to: Visually Interesting Walking Routes: Moderate Level Transit Service: Dial-A-Ride or No Transit Service changed to: Transit Service: 15-30 Minute Bus within 1/4 Mile Interconnected Bikeways: No Bikeway Coverage changed to: Interconnected Bikeways: Moderate Coverage Bike Routes Provide Paved Shoulders: No Routes changed to: Bike Routes Provide Paved Shoulders: Few Routes Safe Vehicle Speed Limits: No Routes Provided changed to:Safe Vehicle Speed Limits: Few Destinations Safe School Routes: No Schools changed to: Safe School Routes: University/College Within Cycling Distance Uses w/in Cycling Distance: No Uses w/in Cycling Distance changed to:Uses w/in Cycling Distance: Large Number and Variety Mitigation measure Project Density Meets Transit Level of Service Requirements:6 has been changed from off to on. Mitigation measure Provide Transit Shelters Benches:2 has been changed from off to on. Mitigation measure Provide Street Lighting:0.5 has been changed from off to on. Mitigation measure Provide Route Signs and Displays:0.5 has been changed from off to on. Mitigation measure Provide Bus Turnouts:1 has been changed from off to on.

URBEMIS 2001 For Windows 6.2.2

File Name: Project Name: Project Location: C:\Program Files\URBEMIS 2001 For Windows\Projects2k\UCLA LRDP Pro UCLA LRDP Update - LRDP Traffic Volumes in 2010 - Summer Session South Coast Air Basin (Los Angeles area)

SUMMARY REPORT (Pounds/Day - Summer)

OPERATIONAL (VEHICLE) EMISSION ESTIMATES ROG NOX CO PM10 SO2 TOTALS (ppd, unmitigated) 875.33 920.46 9,699.93 802.74 5.21

# URBEMIS 2001 For Windows 6.2.2

File Name: Project Name: Project Location: C:\Program Files\URBEMIS 2001 For Windows\Projects2k\UCLA LRDP Pro UCLA LRDP Update - LRDP Traffic Volumes in 2010 - Summer Session South Coast Air Basin (Los Angeles area)

# DETAIL REPORT (Pounds/Day - Summer)

### UNMITIGATED OPERATIONAL EMISSIONS

University/college (4 yrs	ROG	NOx	CO	PM10	SO2
	875.33	920.46	9,699.93	802.74	5.21
TOTAL EMISSIONS (lbs/day)	875.33	920.46	9,699.93	802.74	5.21

Includes correction for passby trips. Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 70 Season: Summer

EMFAC Version: EMFAC2001 (10/2001)

Summary of Land Uses:

Unit Type	Trip Rate	Size To	tal Trips
University/college	(4 yrs122,141.00 trips / UCLA campus	1.00	122,141.00

Vehicle Assumptions:

Travel Conditions

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	68.23	4.70	94.50	0.80
Light Truck < 3,750 lbs	10.33	11.00	88.90	0.10
Light Truck 3,751- 5,750	18.56	1.80	97.60	0.60
Med Truck 5,751- 8,500	0.30	12.50	79.20	8.30
Lite-Heavy 8,501-10,000	0.05	18.20	72.70	9.10
Lite-Heavy 10,001-14,000	0.01	0.00	66.70	33.30
Med-Heavy 14,001-33,000	0.05	9.10	27.30	63.60
Heavy-Heavy 33,001-60,000	0.03	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.00	0.00	0.00	100.00
Motorcycle	1.56	90.90	9.10	0.00
School Bus	0.11	0.00	0.00	100.00
Motor Home	0.77	0.00	100.00	0.00

		Residentia	1			
	Home- Work	Home - Shop	Home- Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
<pre>% of Trips - Residential</pre>	20.0	37.0	43.0			

% of Trips - Commercial (by land use)
University/college (4 yrs)

5.0 2.5 92.5

Changes made to the default values for Operations The mitigation option switch changed from on to off. The light auto percentage changed from 61.4 to 68.23. The light truck < 3750 lbs percentage changed from 9.3 to 10.33. The light truck 3751-5750 percentage changed from 16.7 to 18.56. The med truck 5751-8500 percentage changed from 7.2 to 0.30. The lite-heavy truck 8501-10000 percentage changed from 1.1 to 0.05. The lite-heavy truck 10001-14000 percentage changed from 0.3 to 0.01. The med-heavy truck 14001-33000 percentage changed from 1.1 to 0.05. The heavy-heavy truck 33001-60000 percentage changed from 0.7 to 0.03. The motorcycle percentage changed from 1.4 to 1.56. The school bus percentage changed from 0.1 to 0.11. The motorhome percentage changed from 0.7 to 0.77. The operational emission year changed from 2002 to 2010. The operational winter selection item changed from 3 to 2. The operational summer temperature changed from 90 to 70. The operational summer selection item changed from 8 to 4. The travel mode environment settings changed from both to: none The default/nodefault travel setting changed from nodefault to: nodefault Side Walks/Paths: No Sidewalks changed to: Side Walks/Paths: Complete Coverage Street Trees Provide Shade: No Coverage changed to:Street Trees Provide Shade: Moderate Coverage Pedestrian Circulation Access: No Destinations changed to: Pedestrian Circulation Access: Most Destinations Visually Interesting Uses: No Uses Within Walking Distance changed to: Visually Interesting Uses: Large Number and Variety Street System Enhances Safety: No Streets changed to: Street System Enhances Safety: Most Streets Pedestrian Safety from Crime: No Degree of Safety changed to: Pedestrian Safety from Crime: High Degree of Safety Visually Interesting Walking Routes: No Visual Interest changed to: Visually Interesting Walking Routes: Moderate Level Transit Service: Dial-A-Ride or No Transit Service changed to: Transit Service: 15-30 Minute Bus within 1/4 Mile Interconnected Bikeways: No Bikeway Coverage changed to: Interconnected Bikeways: Moderate Coverage Bike Routes Provide Paved Shoulders: No Routes changed to: Bike Routes Provide Paved Shoulders: Few Routes Safe Vehicle Speed Limits: No Routes Provided changed to:Safe Vehicle Speed Limits: Few Destinations Safe School Routes: No Schools changed to: Safe School Routes: University/College Within Cycling Distance Uses w/in Cycling Distance: No Uses w/in Cycling Distance changed to: Uses w/in Cycling Distance: Large Number and Variety Mitigation measure Project Density Meets Transit Level of Service Requirements:6 has been changed from off to on. Mitigation measure Provide Transit Shelters Benches:2 has been changed from off to on. Mitigation measure Provide Street Lighting:0.5 has been changed from off to on. Mitigation measure Provide Route Signs and Displays:0.5 has been changed from off to on. Mitigation measure Provide Bus Turnouts:1 has been changed from off to on.

# TOTAL OPERATIONAL EMISSIONS

Project Number: 10328-07 Project Name: UCLA LRDP Update

# Future Without LRDP Update Daily Campus Emissions

			ular Session in Pounds p					nmer Session in Pounds p		
Emissions Source	CO	ROC	NOx	SOx	PM <sub>10</sub>	CO	ROC	NOx	SOx	PM10
Construction Activities	163.9	31.0	265.3	10.8	45.0	163.9	31.0	265.3	10.8	45.0
Stationary Sources	699.7	49.2	181.0	77.1	81.4	699.7	49.2	181.0	77.1	81.4
Landscape Maintenance	35.4	5.4	0.2	0.0	0.1	35.4	5.4	0.2	0.0	0.1
Consumer Products		148.4					46.4			
Motor Vehicles	10,169.7	917.7	965.0	5.5	841.6	8,875.5	800.9	842.2	4.8	734.5
Totals	11,068.7	1,151.7	1,411.5	93.4	968.1	9,774.5	932.9	1,288.7	92.7	861.0

# Alternative 1: No Project/Continued Implementation and Extension of the 1990 LRDP through 2010/2011

			ular Session in Pounds p					nmer Session in Pounds p		
Emissions Source	co	ROC	NOx	SOx	PM10	CO	ROC	NOx	SOx	PM <sub>10</sub>
Construction Activities	163.9	31.0	265.3	10.8	45.0	163.9	31.0	265.3	10.8	45.0
Stationary Sources	777.3	54.7	201.1	85.7	90.4	777.3	54.7	201.1	85.7	90.4
Landscape Maintenance	39.3	6.0	0.2	0.0	0.1	39.3	6.0	0.2	0.0	0.1
Consumer Products		148.4					46.4			
Motor Vehicles	10,278.3	927.5	975.3	5.6	850.6	9,556.3	862.3	906.8	5.2	790.8
Totals	11,258.8	1,167.6	1,441.9	102.1	986.1	10,536.8	1,000.4	1,373.4	101.7	926.3

# Alternative 3: Regular Session Growth Only

			ular Session in Pounds p					mer Session in Pounds p		
Emissions Source	CO	ROC	NOx	SOx	PM10	со	ROC	NOx	SOx	PM10
Construction Activities	163.9	31.0	265.3	10.8	45.0	163.9	31.0	265.3	10.8	45.0
Stationary Sources	777.3	54.7	201.1	85.7	90.4	702.4	49.9	197.2	77.1	81.4
Landscape Maintenance	39.3	6.0	0.2	0.0	0.1	36.6	5.6	0.2	0.0	0.1
Consumer Products		177.0					49.5			
Motor Vehicles	10,155.5	916.4	963.6	5.5	840.4	9,152.2	825.9	868.5	4.9	757.4
Totals	11,136.0	1,185.1	1,430.2	102.0	975.9	10,055.1	961.9	1,331.2	92.8	883.9

# Net Change in Daily Campus Emissions With Alternative 1

Regular Session Emissions in Pounds per Day				Summer Session Emissions in Pounds per Day						
Analysis Condition	co	ROC	NOx	SOx	PM10	со	ROC	NOx	SOx	PM10
Proposed Project	11,068.7	1,151.7	1,411.5	93.4	968.1	9,774.5	932.9	1,288.7	92.7	861.0
Alternative 1	11,258.8	1,167.6	1,441.9	102.1	986.1	10,536.8	1,000.4	1,373.4	101.7	926.3
Net Change	190.1	15.9	30.4	8.7	18.0	762.3	67.5	84.7	9.0	65.3

# Net Change in Daily Campus Emissions With Alternative 3

		Regular Session Emissions in Pounds per Day						nmer Session in Pounds p		
Analysis Condition	со	ROC	NOx	SOx	PM <sub>10</sub>	CO	ROC	NOx	SOx	PM <sub>t0</sub>
Proposed Project	11,068.7	1,151.7	1,411.5	93.4	968.1	9,774.5	932.9	1,288.7	92.7	861.0
Alternative 1	11,136.0	1,185.1	1,430.2	102.0	975.9	10,055.1	961.9	1,331.2	92.8	883.9
Net Change	67.3	33.5	18.7	8.6	7.8	280.6	29.0	42.5	0.1	22.9

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

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#### **Roadway Data**

Intersection: Analysis Condition: Church Ln.-Ovada Ln./Sepulveda Blvd. Exisiting Traffic Volume (Regular Session)

							No. of	Average	Speed
					Roadw	ay Type	Lanes	A.M.	P.M.
North-South	Roadway:	S	epulveda	Blvd.	At C	Grade	4	15	15
East-West R	Roadway:	C	hurch Ln.	Ovada Ln.	At C	Grade	4	15	15
A.M. Peak H	lour Traffic	Volumes			P.M. Peak	K Hour Traff	fic Volumes		
N			1		N			1	
L	605	1,490	3			218	311	3	
W	<	v	>	E	W	<	v	>	E
1 ^			^	2	523	^		^	5
151 >			<	140	54	>		<	94
76 v			v	77	18	v		v	66
500	<	^	>			<	^	>	
	32	509	82			5	2,517	210	

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,610	N-S Road:	3,577
E-W Road:	1,005	E-W Road:	912

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

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	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Fee
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,610	12.31	2.25	1.73	1.22
East-West Road	2.6	2.2	1.7	1,005	12.31	0.32	0.27	0.21
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	3,577	12.31	3.08	2.38	1.67
East-West Road	2.6	2.2	1.7	912	12.31	0.29	0.25	0.19

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	8.4	9.2	6.0
50 Feet from Roadway Edge	7.8	8.4	5.4
100 Feet from Roadway Edge	7.2	7.7	4.9

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

### **Roadway Data**

Intersection:	Sunset Blvd./Church Ln.
Analysis Condition:	Exisiting Traffic Volume (Regular Session)

							No. of	Average	Speed
					Roadw	ay Type	Lanes	A.M.	P.M.
North-South F	Roadway:	C	hurch Ln.		At C	Grade	4	15	15
East-West Ro	adway:	S	Sunset Blvd.		At C	Brade	4	15	15
A.M. Peak Ho	our Traffic	Volumes			P.M. Peak	Hour Traffi	c Volumes		
N			1		N			1	
	1,153	175	479			849	89	425	
N	<	v	>	E	W	<	v	>	E
115 ^			^	448	490	^		٨	446
1,389 >			<	1,290	1,529	>		<	1,017
133 v			v	30	54	v		v	42
	<	٨	>			<	^	>	
	65	4	42			133	23	68	
s					S				
Highest Traffic	c Volume:	s (Vehicles	per Hour)						
N-S	Road:	2,374				N-S Road:	2,322		
E-W	Road:	4,145				E-W Road:	4,072		

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С				
	Reference CO Concentrations			Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors	25 Feet	50 Feet	100 Feet	
A.M. Peak Traffic Hour									
North-South Road	2.6	2.2	1.7	2,374	12.31	0.76	0.64	0.50	
East-West Road	7.0	5.4	3.8	4,145	12.31	3.57	2.75	1.94	
P.M. Peak Traffic Hour									
North-South Road	2.6	2.2	1.7	2,322	12.31	0.74	0.63	0.49	
East-West Road	7.0	5.4	3.8	4,072	12.31	3.51	2.71	1.90	

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	10.1	10.1	6.6
50 Feet from Roadway Edge	9.2	9.1	6.0
100 Feet from Roadway Edge	8.2	8.2	5.3

## Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

119 v

S

< 326 264

### **Roadway Data**

Intersection: Analysis Condition:

197 v

S

Sunset Blvd./Veteran Ave. Exisiting Traffic Volume (Regular Session)

			No. of	Average	Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Veteran Ave.	At Grade	2	15	15
East-West Roadway:	Sunset Blvd.	At Grade	4	15	15
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		
N		N			
0	0 0		0	0	
<u>w</u> < v		<u>w</u> <	v	> [	E
1.759 >	< 1,169	1,236 >		-	1,079
1,759	1,109	1,230 -			1,079

Highest Traffic Volumes (Vehicles per Hour)

59

N-S Road:	918	N-S Road:	1,150
E-W Road:	3,590	E-W Road:	3,020

334

328

# **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С				
	Reference CO Concentrations			Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Fee	
A.M. Peak Traffic Hour									
North-South Road	2.7	2.2	1.7	918	12.31	0.31	0.25	0.19	
East-West Road	7.0	5.4	3.8	3,590	12.31	3.09	2.39	1.68	
P.M. Peak Traffic Hour									
North-South Road	2.7	2.2	1.7	1,150	12.31	0.38	0.31	0.24	
East-West Road	7.0	5.4	3.8	3,020	12.31	2.60	2.01	1.41	

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	9.2	8.8	6.0
50 Feet from Roadway Edge	8.4	8.1	5.4
100 Feet from Roadway Edge	7.7	7.5	4.9

<sup>2</sup> Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

5 Sunset Blvd. & Veteran Ave.xls

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

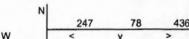
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

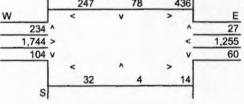
#### **Roadway Data**

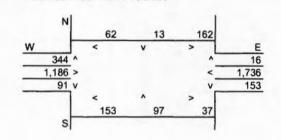
 Intersection:
 Sunset Blvd./Bellagio Way

 Analysis Condition:
 Exisiting Traffic Volume (Regular Session)

				Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Bellagio Way	At Grade	2	15	10
East-West Roadway:	Sunset Blvd.	At Grade	4	15	10
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		







Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,026	N-S Road:	694
E-W Road:	3,616	E-W Road:	3,572

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations			Traffic	Emission	Estimated CO Concentrations		
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,026	12.31	0.34	0.28	0.21
East-West Road	7.0	5.4	3.8	3,616	12.31	3.11	2.40	1.69
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	694	18.24	0.34	0.28	0.22
East-West Road	7.0	5.4	3.8	3,572	18.24	4.56	3.52	2.48

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	9.3	10.7	7.0
50 Feet from Roadway Edge	8.5	9.6	6.3
100 Feet from Roadway Edge	7.7	8.5	5.5

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

### **Roadway Data**

Intersection: Sunset Blvd./Westwood Blvd. Analysis Condition: Exisiting Traffic Volume (Regular Session)

						No. of	Average	e Speed
				Roadw	ay Type	Lanes	A.M.	P.M.
North-South Roadway:	V	Vestwood Bh	by	At C	Grade	4	20	20
East-West Roadway:	S	unset Blvd.		At C	Brade	4	20	20
A.M. Peak Hour Traffic	Volumes			P.M. Peak	Hour Traff	ic Volumes		
N		1		N				
0	0	0			0	0	0	
N<	v	> _	E	W	<	v	>	E
0 ^		^	0	0	^		^	(
1,601 >		<	1,346	1,201			<	1,687
389 v		×	138	134	1		v	67
<	^	>			<	^	>	
28	0	33		-	223	0	166	
s				S				
Highest Traffic Volumes	(Vehicles	per Hour)						
N-S Road:	588				N-S Road:	590		
E-W Road:	3,364				E-W Road:	3,245		

### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A,	A2	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Fee
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	588	9.33	0.14	0.12	0.09
East-West Road	7.0	5.4	3.8	3,364	9.33	2.20	1.70	1.19
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	590	9.33	0.14	0.12	0.09
East-West Road	7.0	5.4	3.8	3,245	9.33	2.12	1.64	1.15

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	8.1	8.1	5.2
50 Feet from Roadway Edge	7.6	7.6	4.9
100 Feet from Roadway Edge	7.1	7.0	4.5

## Project Number: 10328-07 Project Title: UCLA LRDP

# **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year:

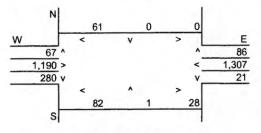
Northwest Coastal LA County 5.8 3.6 0.7 2002

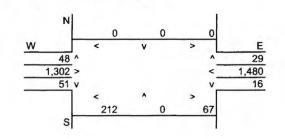
#### **Roadway Data**

Intersection:	Sunset Blvd./Stone Canyon Rd.
Analysis Condition:	Exisiting Traffic Volume (Regular Session)

			No. of	Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Stone Canyon Rd.	At Grade	2	20	20
East-West Roadway:	Sunset Blvd.	At Grade	4	20	20
A.M. Peak Hour Traffic Vol	umes	P.M. Peak Hour Traf	fic Volumes		







Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	412	N-S Road:	346
E-W Road:	2,987	E-W Road:	3,093

# **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	412	9.33	0.10	0.08	0.07
East-West Road	7.0	5.4	3.8	2,987	9.33	1.95	1.51	1.06
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	346	9.33	0.09	0.07	0.05
East-West Road	7.0	5.4	3.8	3,093	9.33	2.02	1.56	1.10

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	7.9	7.9	5.1
50 Feet from Roadway Edge	7.4	7.4	4.7
100 Feet from Roadway Edge	6.9	7.0	4.4

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

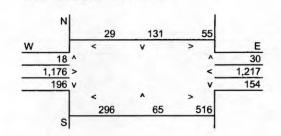
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

Intersection: Analysis Condition: Sunset Blvd.-Hilgard Ave./Copa De Oro Rd. Exisiting Traffic Volume (Regular Session)

			No. of	Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Copa De Oro Rd.	At Grade	2	15	15
East-West Roadway:	Sunset Blvd Hilgard Ave.	At Grade	4	15	15
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		

N 93 33 34 W E -37 27 ^ 944 > 1,198 407 258 v 176 37 117 s



Highest Traffic Volumes (Vehicles per Hour)

N-S Roa	d: 1,088	N-S Road:	1,358
E-W Roa	d: 2,737	E-W Road:	3,148

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference CO Concentrations		Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,088	12.31	0.36	0.29	0.23
East-West Road	7.0	5.4	3.8	2,737	12.31	2.36	1.82	1.28
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,358	12.31	0.45	0.37	0.28
East-West Road	7.0	5.4	3.8	3,148	12.31	2.71	2.09	1.47

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	8.5	9.0	5.8
50 Feet from Roadway Edge	7.9	8.3	5.3
100 Feet from Roadway Edge	7.3	7.6	4.8

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year:

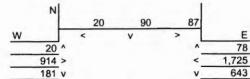
Northwest Coastal LA County 5.8 3.6 0.7 2002

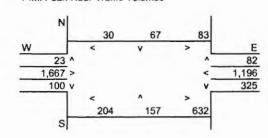
### **Roadway Data**

Sunset Blvd.- Beverly Glen Blvd./Bel Air Rd. Intersection: Exisiting Traffic Volume (Regular Session) Analysis Condition:

480

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Beverly Glen Blvd./ Bel Air Rd.	At Grade	4	10	10
East-West Roadway:	Sunset Blvd.	At Grade	4	10	10





Highest Traffic Volumes (Vehicles per Hour)

105

S

N-S Road:	1,578	N-S Road:	1,485
E-W Road:	3,927	E-W Road:	3,985

Е

78

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,578	18.24	0.75	0.63	0.49
East-West Road	7.0	5.4	3.8	3,927	18.24	5.02	3.87	2.72
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,485	18.24	0.70	0.60	0.46
East-West Road	7.0	5.4	3.8	3,985	18.24	5.09	3.93	2.76

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	11.6	11.6	7.7
50 Feet from Roadway Edge	10.3	10.3	6.8
100 Feet from Roadway Edge	9.0	9.0	5.9

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

Intersection: Analysis Condition: Sunset Blvd. (east IS) & Beverly Glen Blvd. Exisiting Traffic Volume (Regular Session)

							No. of	Average	e Speed
					Roadw	ay Type	Lanes	A.M.	P.M.
North-South	Roadway:	B	everly Gler	Blvd.	At C	Grade	4	10	10
East-West R	oadway:	S	unset Blvd	(east IS)	At G	Grade	4	10	10
A.M. Peak Ho	our Traffic	Volumes			P.M. Peak	Hour Traf	fic Volumes		
N			1		N				
-	0	917	147			0	602	90	
W	<	v	> L	<u> </u>	W	<	v	>	E
0 ^			^	44	0			^.	106
0 >			<_	1,570		>		<	
0 v			v_	0	0	v		v	997
	<	^	>			<	*	>	
	0	628	1,040			0	1,061	1,363	
S					S				

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,585	N-S Road:	4,023
E-W Road:	2,801	E-W Road:	2,556

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Fee
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,585	18.24	1.23	1.04	0.80
East-West Road	7.0	5.4	3.8	2,801	18.24	3.58	2.76	1.94
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	4,023	18.24	5.14	3.96	2.79
East-West Road	2.6	2.2	1.7	2,556	18.24	1.21	1.03	0.79

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	10.6	12.2	8.0
50 Feet from Roadway Edge	9.6	10.8	7.1
100 Feet from Roadway Edge	8.5	9.4	6.1

### Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

Intersection: Montana Ave./Sepulveda Blvd. Analysis Condition: Exisiting Traffic Volume (Regular Session)

							No. of	Average	Speed
					Roady	way Type	Lanes	A.M.	P.M.
North-South	Roadway:	S	epulveda Bl	vd.		Grade	4	15	15
East-West F	Roadway:	M	lontana Ave		At	Grade	2	15	15
A.M. Peak H	Hour Traffic	Volumes			P.M. Pea	k Hour Traff	ic Volumes		
N			1		N			1	
_ L	86	925	437			32	321	46	
N	<	v	> _	E	W	<	v	>	
11 ^			^	92	12	2 ^		^	5
349 >			<	111	79	) >		<	3
80 v	6		v	70	39	v		v	
	<	~	>			<	^	>	
	97	317	515			148	1,583	104	
s					S	6			
Highest Traf	fic Volumes	(Vehicles	per Hour)						
N	-S Road:	2.004				N-S Road:	2,531		

### **Roadway CO Contributions and Concentrations**

1,574

Emissions = (A x B x C) / 100,0001

E-W Road:

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conce	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,004	12.31	1.73	1.33	0.94
East-West Road	2.7	2.2	1.7	1,574	12.31	0.52	0.43	0.33
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,531	12.31	2.18	1.68	1.18
East-West Road	2.7	2.2	1.7	1,237	12.31	0.41	0.33	0.26

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

E-W Road:

1,237

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	8.0	8.4	5.4
50 Feet from Roadway Edge	7.6	7.8	5.0
100 Feet from Roadway Edge	7.1	7.2	4.6

### Project Number: 10328-07 Project Title: UCLA LRDP

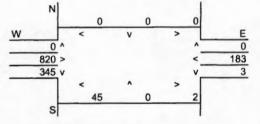
### **Background Information**

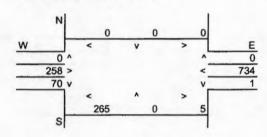
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

# **Roadway Data**

Intersection: Analysis Condition: Montana Ave./Levering Ave. Exisiting Traffic Volume (Regular Session)

			No. of	Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Levering Ave.	At Grade	2	15	10
East-West Roadway:	Montana Ave.	At Grade	2	15	10
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	395	N-S Road:	341
E-W Road:	1,393	E-W Road:	1,327

### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	Estimated CO Concentrations		
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Fee
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	395	12.31	0.13	0.11	0.08
East-West Road	7.6	5.7	4.0	1,393	12.31	1.30	0.98	0.69
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	341	18.24	0.17	0.14	0.11
East-West Road	7.6	5.7	4.0	1,327	18.24	1.84	1.38	0.97

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	7.2	7.8	5.0
50 Feet from Roadway Edge	6.9	7.3	4.7
100 Feet from Roadway Edge	6.6	6.9	4.4

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

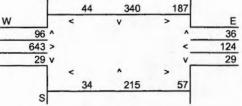
Nearest Air Monitoring Station measuring CO:	
Background 1-hour CO Concentration (ppm):	
Background 8-hour CO Concentration (ppm):	
Persistence Factor:	
Analysis Year:	

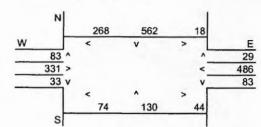
Northwest Coastal LA County 5.8 3.6 0.7 2002

### **Roadway Data**

Intersection: Analysis Condition: Montana Ave./ Gayley Ave. - Veteran Ave. Exisiting Traffic Volume (Regular Session)

			No. of	Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Gayley Ave Veteran Ave.	At Grade	4	15	15
East-West Roadway:	Montana Ave.	At Grade	2	15	15
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		
N	1	N			





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	918	N-S Road:	1,090
E-W Road:	1,076	E-W Road:	1,275

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A1	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	ated CO Concentrations		
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	918	12.31	0.29	0.25	0.19
East-West Road	7.6	5.7	4.0	1,076	12.31	1.01	0.75	0.53
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,090	12.31	0.35	0.30	0.23
East-West Road	7.6	5.7	4.0	1,275	12.31	1.19	0.89	0.63

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	7.1	7.3	4.7
50 Feet from Roadway Edge	6.8	7.0	4.4
100 Feet from Roadway Edge	6.5	6.7	4.2

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

### **Roadway Data**

Intersection: Strathmore PI./Gayley Ave. Analysis Condition: Exisiting Traffic Volume (Regular Session)

			No. of	Average	Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Gayley Ave.	At Grade	4	20	20
East-West Roadway:	Strathmore PI.	At Grade	2	20	20
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		
N	1	N		1	
9	323 537	12	216	149	
W < V	> E	W <	v	>	E
1 ^	^ 39	11 ^		^	409
113 >	< 20	125 >		<	201
11 v	v 105	20 v		v	358
< ^	>	<	^	> [	
7	163 378	18	238	328	
s		S			

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,072	N-S Road:	1,178
E-W Road:	1,192	E-W Road:	1,570

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A,	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	Concentrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Fee
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,072	9.33	0.26	0.22	0.17
East-West Road	7.6	5.7	4.0	1,192	9.33	0.85	0.63	0.45
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,178	9.33	0.29	0.24	0.19
East-West Road	7.6	5.7	4.0	1,570	9.33	1.11	0.84	0.59

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.9	7.2	4.6
50 Feet from Roadway Edge	6.7	6.9	4.4
100 Feet from Roadway Edge	6.4	6.6	4.1

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO:	
Background 1-hour CO Concentration (ppm):	
Background 8-hour CO Concentration (ppm):	
Persistence Factor:	
Analysis Year:	

# **Roadway Data**

Intersection: Analysis Condition:

S

Levering Ave./Veteran Ave. Exisiting Traffic Volume (Regular Session)

5.8 3.6 0.7 2002

Northwest Coastal LA County

							No. of	Averag	e Speed
					Roadw	ay Type	Lanes	A.M.	P.M.
North-South F	Roadway:	V	eteran Ave.		At G	Grade	2	20	20
East-West Ro	adway:	L	evering Ave		At G	Grade	2	20	20
A.M. Peak Ho	our Traffic \	/olumes			P.M. Peak	Hour Traf	fic Volumes		
N	39	402			N		324	23	
w	<	V	>	E	w	<	V	>	E
46 ^			^	1	3	^		^	74
0 >			<	0	27	>		<	115
300 v			v	0	47	v		v	63
	<	A .	>			<	٨	>	

190

S

518

Highest Traffic Volumes (Vehicles per Hour)

55

405

5

N-S Road:	1,167	N-S Road:	1,216
E-W Road:	440	E-W Road:	386

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	1,167	9.33	0.83	0.62	0.44
East-West Road	2.7	2.2	1.7	440	9.33	0.11	0.09	0.07
P.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	1,216	9.33	0.86	0.65	0.45
East-West Road	2.7	2.2	1.7	386	9.33	0.10	0.08	0.06

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

# Total Roadway CO Concentrations

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) × Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.7	6.8	4.3
50 Feet from Roadway Edge	6.5	6.5	4.1
100 Feet from Roadway Edge	6.3	6.3	4.0

Project Number: 10328-07 Project Title: UCLA LRDP

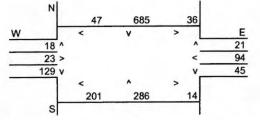
# **Background Information**

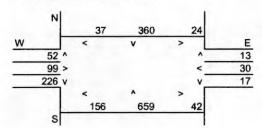
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

Intersection:	Wyton Dr./Hilgard Ave.
Analysis Condition:	Exisiting Traffic Volume (Regular Session)

			No. of	Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Hilgard Ave.	At Grade	4	20	20
East-West Roadway:	Wyton Dr.	At Grade	2	20	20
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,360	N-S Road:	1,460
E-W Road:	512	E-W Road:	600

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A1	A <sub>2</sub>	A <sub>3</sub>	B	С			
	Reference CO Concentrations		Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,360	9.33	0.89	0.69	0.48
East-West Road	2.7	2.2	1.7	512	9.33	0.13	0.11	0.08
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,460	9.33	0.95	0.74	0.52
East-West Road	2.7	2.2	1.7	600	9.33	0.15	0.12	0.10

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.8	6.9	4.4
50 Feet from Roadway Edge	6.6	6.7	4.2
100 Feet from Roadway Edge	6.4	6.4	4.0

<sup>2</sup> Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

18 Wyton Dr. & Hilgard Ave.xls

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year:

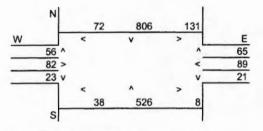
Northwest Coastal LA County 5.8 3.6 0.7 2002

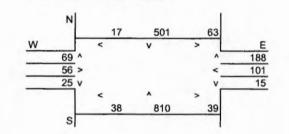
### **Roadway Data**

Intersection:

Wyton Dr. - Comstock Ave./Beverly Glen Blvd. Exisiting Traffic Volumes (Regular Session) Analysis Condition:

			No. of	Average Speed	
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Beverly Glen Blvd.	At Grade	4	20	20
East-West Roadway:	Wyton Dr Comstock Ave.	At Grade	2	20	20
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,656	N-S Road:	1,648
E-W Road:	396	E-W Road:	462

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,656	9.33	1.08	0.83	0.59
East-West Road	2.7	2.2	1.7	396	9.33	0.10	0.08	0.06
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,648	9.33	1.08	0.83	0.58
East-West Road	2.7	2.2	1.7	462	9.33	0.12	0.09	0.07

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.0	4.4
50 Feet from Roadway Edge	6.7	6.7	4.2
100 Feet from Roadway Edge	6.5	6.5	4.1

Project Number: 10328-07 Project Title: UCLA LRDP

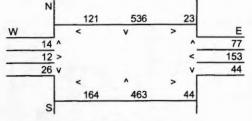
#### **Background Information**

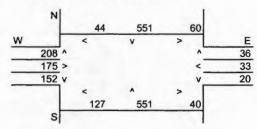
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

### **Roadway Data**

Intersection: Analysis Condition: Westholme Ave./Hilgard Ave. Exisiting Traffic Volume (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Hilgard Ave.	At Grade	4	20	20
East-West Roadway:	Westholme Ave.	At Grade	2	20	20
A.M. Peak Hour Traffic Volu	imes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,277	N-S Road:	1,450
E-W Road:	490	E-W Road:	739

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	ated CO Concentrations		
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,277	9.33	0.83	0.64	0.45
East-West Road	2.7	2.2	1.7	490	9.33	0.12	0.10	0.08
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,450	9.33	0.95	0.73	0.51
East-West Road	2.7	2.2	1.7	739	9.33	0.19	0.15	0.12

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.8	6.9	4.4
50 Feet from Roadway Edge	6.5	6.7	4.2
100 Feet from Roadway Edge	6.3	6.4	4.0

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

0 v

S

778

#### **Roadway Data**

Intersection: Analysis Condition:

0 v

S

Manning Ave./Hilgard Ave. Exisiting Traffic Volume (Regular Session)

							No. of	Average	e Speed
					Road	way Type	Lanes	A.M.	P.M.
North-Sc	outh Roadway:	H	Hilgard Ave.		At	Grade	4	20	20
East-We	est Roadway:		Manning Ave.		At	Grade	2	20	20
A.M. Pea	ak Hour Traffic	Volumes			P.M. Pea	k Hour Traf	fic Volumes		
	N				r	N			
	0	652	10		1.1.1.1	0	958	98	1
W	<	v	>	E	W	_ <	v	>	E
	0 ^		^	70		0 ^		^	53
	0 >		<	0	(	0 >			0

Highest Traffic Volumes (Vehicles per Hour)

0

783

N-S Road:	1,515	N-S Road:	1,887	
E-W Road:	98	E-W Road:	187	

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A1	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,515	9.33	0.99	0.76	0.54
East-West Road	2.7	2.2	1.7	98	9.33	0.02	0.02	0.02
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,887	9.33	1.23	0.95	0.67
East-West Road	2.7	2.2	1.7	187	9.33	0.05	0.04	0.03

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.8	7.1	4.5
50 Feet from Roadway Edge	6.6	6.8	4.3
100 Feet from Roadway Edge	6.4	6.5	4.1

<sup>2</sup> Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

11

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

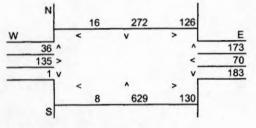
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

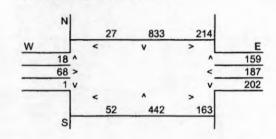
### **Roadway Data**

Intersection: Analysis Condition:

Le Conte Ave./Gayley Ave Exisiting Traffic Volume (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Gayley Ave.	At Grade	4	20	20
East-West Roadway:	Le Conte Ave.	At Grade	4	20	20
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,252	N-S Road:	1,693
E-W Road:	817	E-W Road:	993

# **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	ted CO Concentrations		
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,252	9.33	0.82	0.63	0.44
East-West Road	2.6	2.2	1.7	817	9.33	0.20	0.17	0.13
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,693	9.33	1.11	0.85	0.60
East-West Road	2.6	2.2	1.7	993	9.33	0.24	0.20	0.16

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.8	7.1	4.5
50 Feet from Roadway Edge	6.6	6.9	4.3
100 Feet from Roadway Edge	6.4	6.6	4.1

### Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

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### **Roadway Data**

122 ^

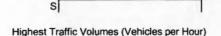
311 >

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 Intersection:
 Le Conte Ave./Westwood Ave.

 Analysis Condition:
 Exisiting Traffic Volume (Regular Session)

			No. of	Average	Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Westwood Ave.	At Grade	6	20	20
East-West Roadway:	Le Conte Ave.	At Grade	4	20	20
A.M. Peak Hour Traffic Vol	umes	P.M. Peak Hour Trat	fic Volumes		
N		N		1	
86	171 42	197	578	72	
W < .	>   E	W <	v	>	F



124

N-S Road:	1,541	N-S Road:	1,685
E-W Road:	1,035	E-W Road:	1,266

84

295

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194

898

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations			Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	6.1	4.9	3.5	1,541	9.33	0.88	0.70	0.50
East-West Road	2.6	2.2	1.7	1,035	9.33	0.25	0.21	0.16
P.M. Peak Traffic Hour								
North-South Road	6.1	4.9	3.5	1,685	9.33	0.96	0.77	0.55
East-West Road	2.6	2.2	1.7	1,266	9.33	0.31	0.26	0.20

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.9	7.1	4.5
50 Feet from Roadway Edge	6.7	6.8	4.3
100 Feet from Roadway Edge	6.5	6.6	4.1

<sup>2</sup> Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

23 Le Conte Ave. & Westwood Blvd.xls

**EIP** Associates

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

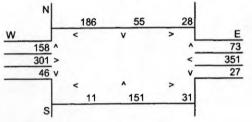
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

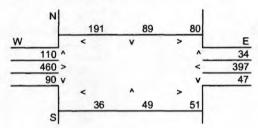
### **Roadway Data**

Intersection: Analysis Condition:

Le Conte Ave./Tiverton Ave. Exisiting Traffic Volume (Regular Session)

			No. of	Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Tiverton Ave.	At Grade	2	20	20
East-West Roadway:	Le Conte Ave.	At Grade	4	20	20
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	651	N-S Road:	553
E-W Road:	1,053	E-W Road:	1,284

### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations			Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	651	9.33	0.16	0.13	0.10
East-West Road	7.0	5.4	3.8	1,053	9.33	0.69	0.53	0.37
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	553	9.33	0.14	0.11	0.09
East-West Road	7.0	5.4	3.8	1,284	9.33	0.84	0.65	0.46

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.7	6.8	4.3
50 Feet from Roadway Edge	6.5	6.6	4.1
100 Feet from Roadway Edge	6.3	6.3	4.0

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

Intersection: Le Conte Ave./Hilgard Ave. Analysis Condition: Exisiting Traffic Volume (Regular Session)

								No. of	Average	Speed
						Roady	way Туре	Lanes	A.M.	P.M.
North-Sout	th Roadway:	H	lilgard	Ave.		At	Grade	4	20	20
East-West	Roadway:	L	e Con	te Ave		At	Grade	4	20	20
A.M. Peak	Hour Traffic	Volumes				P.M. Pea	k Hour Traf	fic Volumes		
N				1		N			1	
	353	243		5			367	555	27	
W	<	v	>		E	W	<	v	>	E
295				^	29	330			^	33
48				<	145	164			<	67
26	v			v	19	12	2 v		v,	21
	<	^	>				<	^	>	
	41	475		5			70	486	54	
S						5	5			

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,400	N-S Road:	1,798
E-W Road:	908	E-W Road:	1,010

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A,	A2	A <sub>3</sub>	в	C			
	Reference CO Concentrations			Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,400	9.33	0.91	0.71	0.50
East-West Road	2.6	2.2	1.7	908	9.33	0.22	0.19	0.14
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,798	9.33	1.17	0.91	0.64
East-West Road	2.6	2.2	1.7	1,010	9.33	0.25	0.21	0.16

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.9	7.2	4.6
50 Feet from Roadway Edge	6.7	6.9	4.4
100 Feet from Roadway Edge	6.4	6.6	4.2

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

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#### **Roadway Data**

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Intersection: Weyburn Ave./Gayley Ave. Analysis Condition: Exisiting Traffic Volume (Regular Session)

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108

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							No. of	Average	Speed
					Roady	way Type	Lanes	A.M.	P.M.
North-South	Roadway:	G	Sayley Ave.		At	Grade	4	20	20
East-West R	loadway:	v	Veyburn Ave.		At	Grade	2	20	20
A.M. Peak H	our Traffic	Volumes			P.M. Pea	k Hour Traffi	c Volumes		
N					h			1	
	180	406	47			567	824	90	
W	<	v	>	E	W	<	v	>	E



N-S Road:	1,783	N-S Road:	2,323
E-W Road:	853	E-W Road:	1,234

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80

52

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,783	9.33	1.16	0.90	0.63
East-West Road	2.7	2.2	1.7	853	9.33	0.21	0.18	0.14
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,323	9.33	1.52	1.17	0.82
East-West Road	2.7	2.2	1.7	1,234	9.33	0.31	0.25	0.20

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	7.2	7.6	4.9
50 Feet from Roadway Edge	6.9	7.2	4.6
100 Feet from Roadway Edge	6.6	6.8	4.3

## Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year:

Northwest Coastal LA County 5.8 3.6 0.7 2002

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### **Roadway Data**

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Intersection:	Weyburn Ave./Westwood Blvd.
Analysis Condition:	Exisiting Traffic Volume (Regular Session)

								No. of	Average	e Speed
						Roadw	ay Type	Lanes	A.M.	P.M.
North-South	Roadway:	V	Vestwo	od Blv	d.	At G	rade	4	20	20
East-West F	Roadway:	v	Veybur	n Ave.		At G	rade	2	20	20
A.M. Peak H	Hour Traffic	Volumes				P.M. Peak	Hour Traf	fic Volumes		
N				1		N				
	37	292		5		100 million (100 million)	87	760	32	
W	<	٧	>		E	W	<	v	>	E
98 ^				۸	54	59	^		^	57
101 >	•			<	88	81	>		<	183

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,554	N-S Road:	1,842
E-W Road:	423	E-W Road:	626

35

### **Roadway CO Contributions and Concentrations**

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1,068

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Emissions = (A x B x C) / 100,0001

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	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,554	9.33	1.02	0.78	0.55
East-West Road	2.7	2.2	1.7	423	9.33	0.11	0.09	0.07
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,842	9.33	1.20	0.93	0.65
East-West Road	2.7	2.2	1.7	626	9.33	0.16	0.13	0.10

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.9	7.2	4.6
50 Feet from Roadway Edge	6.7	6.9	4.3
100 Feet from Roadway Edge	6.4	6.6	4.1

<sup>2</sup> Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

70

Project Number: 10328-07 Project Title: UCLA LRDP

## **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year:

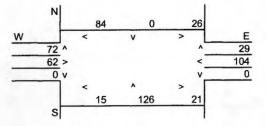
Northwest Coastal LA County 5.8 3.6 0.7 2002

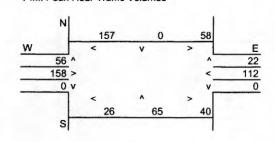
## **Roadway Data**

Weyburn Ave./Tiverton Dr. Intersection: Exisiting Traffic Volume (Regular Session) Analysis Condition:

			No. of	Average Speed	
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Tiverton Dr.	At Grade	2	20	20
East-West Roadway:	Weyburn Ave.	At Grade	2	20	20
A.M. Peak Hour Traffic Vol	umes	P.M. Peak Hour Traf	fic Volumes		

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	337	N-S Road:	358
E-W Road:	337	E-W Road:	509

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	337	9.33	0.24	0.18	0.13
East-West Road	2.7	2.2	1.7	337	9.33	0.08	0.07	0.05
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	358	9.33	0.09	0.07	0.06
East-West Road	7.6	5.7	4.0	509	9.33	0.36	0.27	0.19

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

## **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.1	6.3	3.9
50 Feet from Roadway Edge	6.0	6.1	3.8
100 Feet from Roadway Edge	6.0	6.0	3.8

Project Number: 10328-07 Project Title: UCLA LRDP

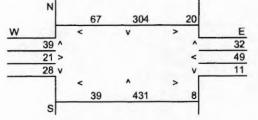
## **Background Information**

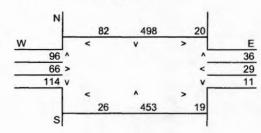
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

Intersection:	Weyburn Ave./ Hilgard Ave.
Analysis Condition:	Exisiting Traffic Volume (Regular Session)

		No. of	Average Speed		
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Hilgard Ave.	At Grade	2	20	20
East-West Roadway:	Weyburn Ave.	At Grade	2	20	20
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	893	N-S Road:	1,185
E-W Road:	243	E-W Road:	413

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	893	9.33	0.63	0.48	0.33
East-West Road	2.7	2.2	1.7	243	9.33	0.06	0.05	0.04
P.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	1,185	9.33	0.84	0.63	0.44
East-West Road	2.7	2.2	1.7	413	9.33	0.10	0.08	0.07

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.5	6.7	4.3
50 Feet from Roadway Edge	6.3	6.5	4.1
100 Feet from Roadway Edge	6.2	6.3	4.0

Project Number: 10328-07 Project Title: UCLA LRDP

# Background Information

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

 Intersection:
 Kinross Ave./Westwood Blvd.

 Analysis Condition:
 Exisiting Traffic Volume (Regular Session)

Average Speed No. of Roadway Type Lanes A.M. P.M. North-South Roadway: Westwood Blvd. At Grade 4 20 20 At Grade 20 20 Kinross Ave. 4 East-West Roadway: P.M. Peak Hour Traffic Volumes A.M. Peak Hour Traffic Volumes N Ν 103 98 766 21 347 Е W > E w 65 67 ^ 111 23 ۸ 138 > 98 42 43 > 40 v 11 178 v 27

Highest Traffic Volumes (Vehicles per Hour)

47

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1,098

43

N-S Road:	1,586	N-S Road:	1,938
E-W Road:	216	E-W Road:	680

## **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,586	9.33	1.04	0.80	0.56
East-West Road	2.6	2.2	1.7	216	9.33	0.05	0.04	0.03
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,938	9.33	1.27	0.98	0.69
East-West Road	2.6	2.2	1.7	680	9.33	0.17	0.14	0.11

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

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105

761

101

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	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.9	7.2	4.6
50 Feet from Roadway Edge	6.6	6.9	4.4
100 Feet from Roadway Edge	6.4	6.6	4.2

## Project Number: 10328-07 Project Title: UCLA LRDP

## **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

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908

279

## **Roadway Data**

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Intersection:	Lindbrook Dr./ Westwood Blvd.
Analysis Condition:	Exisiting Traffic Volume (Regular Session)

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246

						No. of	Average	Speed		
						Roadwa	у Туре	Lanes	A.M.	P.M.
North-So	uth Roadway:	V	Vestwo	ood Bh	vd.	At Gr	ade	4	20	20
East-Wes	st Roadway:	L	indbro	ok Dr.		At Gr	ade	4	20	20
A.M. Pea	k Hour Traffic	Volumes				P.M. Peak I	Hour Traf	fic Volumes		
N				_		N				
	23	426		7			57	831	23	
W	<	v	>	L	E	W	<	v	>	E
26	5 ^			^	36	24 /			^	98
116	5 >			<	157	151 >			<	319
42	2 v			v	119	63 \	'		v	173

Highest Traffic Volumes (Vehicles per Hour)

1,039

N-S Road:	1,879	N-S Road:	2,259
E-W Road:	681	E-W Road:	1,043

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A1	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations			Traffic	Emission	Estimated CO Concentrations		
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,879	9.33	1.23	0.95	0.67
East-West Road	2.6	2.2	1.7	681	9.33	0.17	0.14	0.11
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,259	9.33	1.48	1.14	0.80
East-West Road	2.6	2.2	1.7	1,043	9.33	0.25	0.21	0.17

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	7.2	7.5	4.8
50 Feet from Roadway Edge	6.9	7.2	4.5
100 Feet from Roadway Edge	6.6	6.8	4.3

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

213

187

## **Roadway Data**

Intersection: Lindbrook Dr./ Tiverton Ave. Analysis Condition: Exisiting Traffic Volume (Regular Session)

						No. of	Average	e Speed
				Roadwa	y Type	Lanes	A.M.	P.M.
North-South Roadway	<i>r</i> . 1	Fiverton Ave.		At Gr	ade	2	20	20
East-West Roadway:		indbrook Dr.		At Gr	ade	4	20	20
A.M. Peak Hour Traffi	c Volumes			P.M. Peak	Hour Traf	fic Volumes		
N 6	108	51		N	76	281	97	
W <	v	>	E	W	<	۷	>	
69 ^		^	160	64			^	5
327 >		<	275	278	>		<	35
14 v		v	55	29	v		V.	28
	^	· ·			<	۸	>	1

Highest Traffic Volumes (Vehicles per Hour)

244

91

s

N-S Road:	1,176	N-S Road:	1,026
E-W Road:	1,532	E-W Road:	1,257

664

## **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference CO Concentrations			Traffic	Emission	Estimated CO Concentrations		
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,176	9.33	0.30	0.24	0.19
East-West Road	7.0	5.4	3.8	1,532	9.33	1.00	0.77	0.54
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,026	9.33	0.26	0.21	0.16
East-West Road	7.0	5.4	3.8	1,257	9.33	0.82	0.63	0.45

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

# **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	7.1	6.9	4.5
50 Feet from Roadway Edge	6.8	6.6	4.3
100 Feet from Roadway Edge	6.5	6.4	4.1

## Project Number: 10328-07 Project Title: UCLA LRDP

# **Background Information**

Nearest Air Monitoring Station measuring CO:	
Background 1-hour CO Concentration (ppm):	
Background 8-hour CO Concentration (ppm):	
Persistence Factor:	
Analysis Year:	

Northwest Coastal LA County 5.8 3.6 0.7 2002

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1,179

#### **Roadway Data**

Intersection: Analysis Condition:

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Constitution Ave./Sepulveda Blvd. Exisiting Traffic Volume (Regular Session)

						No. of	Average	e Speed
				Roadway T	ype L	anes	A.M.	P.M.
North-South Roadway:         Sepulveda Blvd.           East-West Roadway:         Constitution Ave.		eda Blvd.	At Grad	e	4	20	20	
		ution Ave.	At Grad	e	2	20	20	
A.M. Pea	k Hour Traffic Vol	umes		P.M. Peak Ho	ur Traffic V	/olumes		
N				N				
	126 1	,110	2		57	421	2	
W	< \	/ >	E	W	<	V	>	E
100	) ^		^ 2	348 ^			^	5

Highest Traffic Volumes (Vehicles per Hour)

357

34

N-S Road:	1,697	N-S Road:	2,012	
E-W Road:	235	E-W Road:	444	

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,697	9.33	1.11	0.86	0.60
East-West Road	2.7	2.2	1.7	235	9.33	0.06	0.05	0.04
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,012	9.33	1.31	1.01	0.71
East-West Road	2.7	2.2	1.7	444	9.33	0.11	0.09	0.07

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

## **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	7.0	7.2	4.6
50 Feet from Roadway Edge	6.7	6.9	4.4
100 Feet from Roadway Edge	6.4	6.6	4.1

Project Number: 10328-07 Project Title: UCLA LRDP

## **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

370

200

#### **Roadway Data**

Intersection: Wilshire Blvd./San Vicente Blvd. Analysis Condition: Exisiting Traffic Volume (Regular Session)

					No. of	Average	Speed
			Roadw	ay Type	Lanes	A.M.	P.M.
North-South Roadway:	San Vicente	Blvd.	At C	Grade	4	10	10
East-West Roadway:	Wilshire Blvd	d.	At G	Grade	8	10	10
A.M. Peak Hour Traffic Vo	lumes		P.M. Peak	K Hour Traffic	c Volumes		
N 39	264 1,339		N	59	363	1,613	
W <	v >	E	W	<	۷	>	E
54 ^	^	1,159	36	^		^	1,271
1,426 >	<	2,471	1,506	>		<	2,561
52 v	v	75	38	v		v	142

Highest Traffic Volumes (Vehicles per Hour)

222

97

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N-S Road:	3,077	N-S Road:	3,712
E-W Road:	6,595	E-W Road:	7,293

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,000<sup>1</sup>

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	3,077	18.24	1.46	1.24	0.95
East-West Road	5.7	4.6	3.4	6,595	18.24	6.86	5.53	4.09
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	3,712	18.24	1.76	1.49	1.15
East-West Road	5.7	4.6	3.4	7,293	18.24	7.58	6.12	4.52

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) × Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	14.1	15.1	10.1
50 Feet from Roadway Edge	12.6	13.4	8.9
100 Feet from Roadway Edge	10.8	11.5	7.6

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

Intersection:	Wilshire Blvd./Sepulveda Blvd.
Analysis Condition:	Exisiting Traffic Volume (Regular Session)

							No. of	Average	Speed
					Roadway	Туре	Lanes	A.M.	P.M.
North-So	uth Roadway:	S	epulveda E	Blvd.	At Gra	de	4	10	10
East-We	st Roadway:	v	Vilshire Blv	d.	At Gra	de	8	10	10
A.M. Pea	ak Hour Traffic	Volumes			P.M. Peak H	our Traffi	c Volumes		
	N		1		N				
	244	584	213			93	305	96	
w	<	v	>	E	W	<	v	>	E
6	8 ^		^	56	116 ^			^	295
3,08	8 >		<	3,087	3,029 >			<	3,577
23	7 v		v	126	230 v			v	373

Highest Traffic Volumes (Vehicles per Hour)

234

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N-S Road:	1,800	N-S Road:	1,966
E-W Road:	6,958	E-W Road:	7,582

## **Roadway CO Contributions and Concentrations**

294

325

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	C			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	25 Feet 50 Feet	
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,800	18.24	0.85	0.72	0.56
East-West Road	5.7	4.6	3.4	6,958	18.24	7.24	5.84	4.32
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,966	18.24	0.93	0.79	0.61
East-West Road	5.7	4.6	3.4	7,582	18.24	7.88	6.36	4.70

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

# **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

676

212

170

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	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	13.9	14.6	9.8
50 Feet from Roadway Edge	12.4	13.0	8.6
100 Feet from Roadway Edge	10.7	11.1	7.3

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

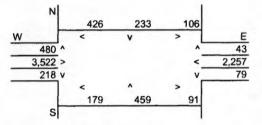
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

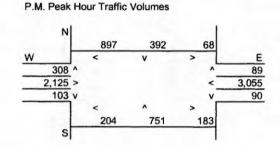
## **Roadway Data**

Intersection: Analysis Condition: Wilshire Blvd./Veteran Ave. Exisiting Traffic Volume (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Veteran Ave.	At Grade	2	15	10
East-West Roadway:	Wilshire Blvd.	At Grade	8	15	10

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,747	N-S Road:	2,505
E-W Road:	7,082	E-W Road:	6,692

## **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conce	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors'	25 Feet	50 Feet	100 Fee
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,747	12.31	0.58	0.47	0.37
East-West Road	5.7	4.6	3.4	7,082	12.31	4.97	4.01	2.96
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	2,505	18.24	1.23	1.01	0.78
East-West Road	5.7	4.6	3.4	6,692	18.24	6.96	5.62	4.15

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	11.3	14.0	9.3
50 Feet from Roadway Edge	10.3	12.4	8.2
100 Feet from Roadway Edge	9.1	10.7	7.0

## Project Number: 10328-07 Project Title: UCLA LRDP

## **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

Intersection: Wilshire Blvd./Gayley Ave. Analysis Condition: Exisiting Traffic Volume (Regular Session)

					No. of	Average	Speed
			Roadway	Туре	Lanes	A.M.	P.M.
North-South Roadway:	Gayley Ave.		At Gra	de	4	20	20
East-West Roadway:	Wilshire Blvc	d.	At Gra	de	8	20	20
A.M. Peak Hour Traffic Ve	olumes		P.M. Peak H	our Traffi	ic Volumes		
N	1		N			1	
328	138 70			800	361	119	
W <	v >	E	W	<	v	>	E
463 ^	۸	169	310 ^			^	153
2,953 >	<	2,105	2,135 >			<	2,265
219 v	v	70	106 v			v	31
<	^ >			<	^	> [	
50	296 38			84	366	135	
s			s				

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,464	N-S Road:	2,109
E-W Road:	6,118	E-W Road:	5,700

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conce	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,464	9.33	0.36	0.30	0.23
East-West Road	5.7	4.6	3.4	6,118	9.33	3.26	2.63	1.94
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,109	9.33	0.51	0.43	0.33
East-West Road	5.7	4.6	3.4	5,700	9.33	3.03	2.45	1.81

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

## **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	9.4	9.3	6.1
50 Feet from Roadway Edge	8.7	8.7	5.6
100 Feet from Roadway Edge	8.0	7.9	5.1

Project Number: 10328-07 Project Title: UCLA LRDP

## **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

Intersection: Wilshire Blvd./Westwood Blvd. Analysis Condition: Exisiting Traffic Volume (Regular Session)

W         <	20 20 20 20 imes 627 96
East-West Roadway:Wilshire Blvd.At Grade820A.M. Peak Hour Traffic VolumesP.M. Peak Hour Traffic Volumes $W$ $231$ $261$ $55$ $W$ $421$ $627$ $9$ $W$ $467$ $v$ > $E$ $W$ $< v$ > $2393$ $<$ $109$ $220$ $<$ $201$	20 20 imes <u>627 96</u> > E
East-West Roadway:Wilshire Blvd.At Grade820A.M. Peak Hour Traffic VolumesP.M. Peak Hour Traffic Volumes $W$ $231$ $261$ $55$ $E$ $W$ $421$ $627$ $9$ $467$ $421$ $627$ $9$ $2,393$ $<$ $109$ $220$ $2,018$ $>$ $20$	imes 627 96 > E
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	627 96 > E
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	> E
W         <         V         E         W         <         V         > $467^{\wedge}$ $^{\wedge}$ 109         220^{\wedge}         2,393         <	> E
467 ^         ^         109         220 ^           2,393 >         <	
2,393 > < 1,805 2,018 >	
151 ··· 116 213 ··	< 1,92
151 v v <u>116</u> <u>213 v</u>	v 16
	>
<u>115 758 109</u> <u>176 746 20</u>	746 200
S S	

Roadway CO Contributions and Concentrations

5,162

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

E-W Road:

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Fee
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,881	9.33	0.46	0.39	0.30
East-West Road	5.7	4.6	3.4	5,162	9.33	2.75	2.22	1.64
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,226	9.33	0.54	0.46	0.35
East-West Road	5.7	4.6	3.4	4,969	9.33	2.64	2.13	1.58

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

## **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	9.0	9.0	5.8
50 Feet from Roadway Edge	8.4	8.4	5.4
100 Feet from Roadway Edge	7.7	7.7	5.0

<sup>2</sup> Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

E-W Road:

4,969

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

Average Speed

A.M. 20

20

190

98

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>

P.M.

15

15

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177 1,698 233

#### **Roadway Data**

Intersection: Analysis Condition		Wilshire Blvd./Glendo Exisiting Traffic Volur	on Ave. ne (Regular Session)	)	
			Roady	vay Туре	No. of _
North-South Road	lway: (	Glendon Ave.	At	Grade	4
East-West Roadw	ay: \	Vilshire Blvd.	At	Grade	8
A.M. Peak Hour T	raffic Volumes	1	P.M. Pea	k Hour Trafi	fic Volumes
1	92 493	129		341	171
W <	v	> <u>E</u> ^ 185	W 200	< ) ^	V
2,049 >		< 1,975	2,068	3 >	
264 v		v 61	59	v	

Highest Traffic Volumes (Vehicles per Hour)

14

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N-S Road:	1,403	N-S Road:	1,187
E-W Road:	4,767	E-W Road:	4,540

## **Roadway CO Contributions and Concentrations**

131

18

Emissions = (A x B x C) / 100,000<sup>1</sup>

	A,	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic Er	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,403	9.33	0.34	0.29	0.22
East-West Road	5.7	4.6	3.4	4,767	9.33	2.54	2.05	1.51
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,187	12.31	0.38	0.32	0.25
East-West Road	5.7	4.6	3.4	4,540	12.31	3.18	2.57	1.90

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

## **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

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108

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	8.7	9.4	6.1
50 Feet from Roadway Edge	8.1	8.7	5.6
100 Feet from Roadway Edge	7.5	7.9	5.1

Project Number: 10328-07 Project Title: UCLA LRDP

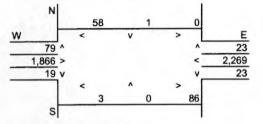
# Background Information

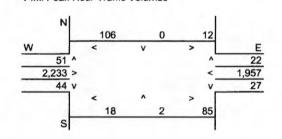
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

Intersection: Wilshire Blvd./Malcolm Ave. Analysis Condition: Exisiting Traffic Volume (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Malcolm Ave.	At Grade	2	20	20
East-West Roadway:	Wilshire Blvd.	At Grade	8	20	20
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	161	N-S Road:	193
E-W Road:	4,294	E-W Road:	4,409

# **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,000<sup>1</sup>

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference CO Concentrations		Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	161	9.33	0.04	0.03	0.03
East-West Road	5.7	4.6	3.4	4,294	9.33	2.28	1.84	1.36
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	193	9.33	0.05	0.04	0.03
East-West Road	5.7	4.6	3.4	4,409	9.33	2.35	1.89	1.40

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	8.1	8.2	5.3
50 Feet from Roadway Edge	7.7	7.7	5.0
100 Feet from Roadway Edge	7.2	7.2	4.6

Project Number: 10328-07 Project Title: UCLA LRDP

## **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

## **Roadway Data**

 Intersection:
 Wilshire Blvd./Westholme Ave.

 Analysis Condition:
 Exisiting Traffic Volume (Regular Session)

						No. of	Average	e Speed
				Roady	way Type	Lanes	A.M.	P.M.
orth-South Roadwa	y: V	Vestholme	Ave.	At	Grade	2	15	15
East-West Roadway	•	Vilshire Blv	rd.	At	Grade	8	15	15
.M. Peak Hour Trai	fic Volumes			P.M. Pea	k Hour Traff	ic Volumes		
N		1		r	4			
33	57	54			112	232	26	
V <	v	>	E	W	<	v	>	
45 ^		^	118	25	9 ^		۸	
2,135 >		<	2,464	2,38	7 >		<	1,9
71 v		v	36	5	5 v		v	
<	^	> [			7 <	^	>	
54	179	66			35	59	44	
S				5	5			
· · · · · · · · · · · · · · · · · · ·	and Atabiata							
lighest Traffic Volur	nes (venicies	sper Hour)						
N-S Road	486				N-S Road:	488		
E-W Road	4,873				E-W Road:	4,592		

## **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	486	12.31	0.16	0.13	0.10
East-West Road	5.7	4.6	3.4	4,873	12.31	3.42	2.76	2.04
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	488	12.31	0.16	0.13	0.10
East-West Road	5.7	4.6	3.4	4,592	12.31	3.22	2.60	1.92

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	9.4	9.2	6.1
50 Feet from Roadway Edge	8.7	8.5	5.6
100 Feet from Roadway Edge	7.9	7.8	5.1

## Project Number: 10328-07 Project Title: UCLA LRDP

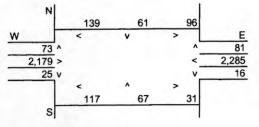
# **Background Information**

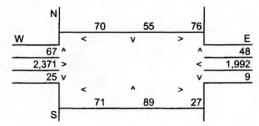
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

Intersection: Analysis Condition: Wilshire Blvd./Warner Ave. Exisiting Traffic Volume (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Warner Ave.	At Grade	2	20	20
East-West Roadway:	Wilshire Blvd.	At Grade	8	20	20
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	517	N-S Road:	405
E-W Road:	4,818	E-W Road:	4,596

## **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A1	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic Emis	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	517	9.33	0.13	0.11	0.08
East-West Road	5.7	4.6	3.4	4,818	9.33	2.56	2.07	1.53
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	405	9.33	0.10	0.08	0.06
East-West Road	5.7	4.6	3.4	4,596	9.33	2.45	1.97	1.46

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

## **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	8.5	8.3	5.5
50 Feet from Roadway Edge	8.0	7.9	5.1
100 Feet from Roadway Edge	7.4	7.3	4.7

Project Number: 10328-07 Project Title: UCLA LRDP

## **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

# **Roadway Data**

 Intersection:
 Wilshire Blvd./Beverly Glen Blvd.

 Analysis Condition:
 Exisiting Traffic Volume (Regular Session)

							No. of	Average	e Speed
					Roadway	Туре	Lanes	A.M.	P.M.
North-South	Roadway:	B	levlery G	len Blvd.	At Gra	de	4	15	15
East-West R	oadway:	v	Vilshire E	livd.	At Gra	de	8	15	15
A.M. Peak He	our Traffic	Volumes			P.M. Peak H	our Traffi	ic Volumes		
N	105	673	85		N	71	668	60	
w H	< 105	v	>	E	w	< /1	000	> 69	
97 ^				57	140 ^			^	
1,783 >			<	2,190	2,000 >			<	1,97
333 v			v	111	321 v			v	10
	<	^	>			<	٨	>	
	70	526	99			85	745	104	
s					S				

N-S Road:	1,812	N-S Road:	2,024
E-W Road:	4,578	E-W Road:	4,593

## **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,000<sup>1</sup>

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,812	12.31	0.58	0.49	0.38
East-West Road	5.7	4.6	3.4	4,578	12.31	3.21	2.59	1.92
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,024	12.31	0.65	0.55	0.42
East-West Road	5.7	4.6	3.4	4,593	12.31	3.22	2.60	1.92

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

## **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	9.6	9.7	6.3
50 Feet from Roadway Edge	8.9	8.9	5.8
100 Feet from Roadway Edge	8.1	8.1	5.2

## Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

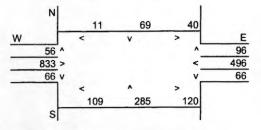
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

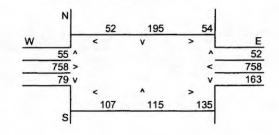
Intersection: Analysis Condition: Ohio Ave./Sawtelle Blvd. Exisiting Traffic Volume (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Sawtelle Blvd.	At Grade	4	15	15
East-West Roadway:	Ohio Ave.	At Grade	2	15	15

A.M. Peak Hour Traffic Volumes







Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	715	N-S Road:	794
E-W Road:	1,651	E-W Road:	1,920

# **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	715	12.31	0.23	0.19	0.15
East-West Road	7.6	5.7	4.0	1,651	12.31	1.54	1.16	0.81
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	794	12.31	0.25	0.21	0.17
East-West Road	7.6	5.7	4.0	1,920	12.31	1.80	1.35	0.95

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	7.6	7.8	5.0
50 Feet from Roadway Edge	7.2	7.4	4.7
100 Feet from Roadway Edge	6.8	6.9	4.4

Project Number: 10328-07 Project Title: UCLA LRDP

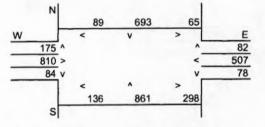
## **Background Information**

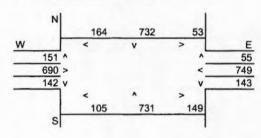
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

# **Roadway Data**

Intersection: Analysis Condition: Ohio Ave./Sepulveda Blvd. Exisiting Traffic Volume (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Sepulveda Blvd.	At Grade	4	10	15
East-West Roadway:	Ohio Ave.	At Grade	2	10	15
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,150	N-S Road:	2,002
E-W Road:	1,840	E-W Road:	2,001

# **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,150	18.24	2.75	2.12	1.49
East-West Road	2.7	2.2	1.7	1,840	18.24	0.91	0.74	0.57
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,002	12.31	1.72	1.33	0.94
East-West Road	2.7	2.2	1.7	2,001	12.31	0.66	0.54	0.42

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

# **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	9.5	8.2	6.2
50 Feet from Roadway Edge	8.7	7.7	5.6
100 Feet from Roadway Edge	7.9	7.2	5.0

Project Number: 10328-07 Project Title: UCLA LRDP

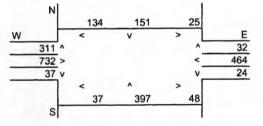
#### **Background Information**

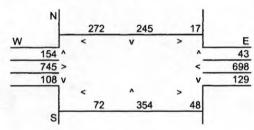
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

Intersection: Analysis Condition: Ohio Ave./ Veteran Ave. Exisiting Traffic Volume (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Veteran Ave.	At Grade	2	15	15
East-West Roadway:	Ohio Ave.	At Grade	2	15	15
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,050	N-S Road:	1,085
E-W Road:	1,715	E-W Road:	2,049

# **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference CO Concentrations			Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Fee
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,050	12.31	0.35	0.28	0.22
East-West Road	7.6	5.7	4.0	1,715	12.31	1.60	1.20	0.84
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,085	12.31	0.36	0.29	0.23
East-West Road	7.6	5.7	4.0	2,049	12.31	1.92	1.44	1.01

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

## **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	7.8	8.1	5.2
50 Feet from Roadway Edge	7.3	7.5	4.8
100 Feet from Roadway Edge	6.9	7.0	4.5

#### Project Number: 10328-07 Project Title: UCLA LRDP

## **Background Information**

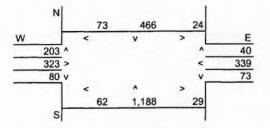
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

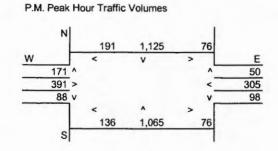
## **Roadway Data**

Intersection: Analysis Condition: Ohio Ave./ Westwood Blvd. Exisiting Traffic Volume (Regular Session)

		No. of		Average Speed			
		Roadway Type	Lanes	A.M.	P.M.		
North-South Roadway:	Westwood Blvd.	At Grade	6	20	20		
East-West Roadway:	Ohio Ave.	At Grade	2	20	20		

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,994	N-S Road:	2,678
E-W Road:	1,080	E-W Road:	1,282

# **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations			Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	6.1	4.9	3.5	1,994	9.33	1.14	0.91	0.65
East-West Road	2.7	2.2	1.7	1,080	9.33	0.27	0.22	0.17
P.M. Peak Traffic Hour								
North-South Road	6.1	4.9	3.5	2,678	9.33	1.52	1.22	0.87
East-West Road	2.7	2.2	1.7	1,282	9.33	0.32	0.26	0.20

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	7.2	7.6	4.9
50 Feet from Roadway Edge	6.9	7.3	4.6
100 Feet from Roadway Edge	6.6	6.9	4.4

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year:

Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

Intersection: Analysis Condition:

Santa Monica Blvd./Sawtelle Blvd. Exisiting Traffic Volume (Regular Session)

							No. of	Average	Speed
					Roadw	ay Type	Lanes	A.M.	P.M.
North-South F	Roadway:	5	Sawtelle Blvc	J.	At G	Grade	4	15	15
East-West Ro	adway:	S	Santa Monica	a Blvd.	At G	Grade	8	15	15
A.M. Peak Ho	ur Traffic	Volumes			P.M. Peak	Hour Traff	ic Volumes		
N			1		N			1	
-	16	130	51			15	298	71	
W	<	v	>	E	W	<	v	> [	1
21 ^			^	190	20	^		^	10
1,926 >			<	2,190	1,642	>		<	1,57
29 v			v	161	84	v		v	17
	<	*	>			<	^	> [	
	57	280	143			65	200	207	

Highest Traffic Volumes (Vehicles per Hour)

s

N-S Road:	800	N-S Road:	1,033
E-W Road:	4,661	E-W Road:	3,783

## **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations			Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	800	12.31	0.26	0.22	0.17
East-West Road	5.7	4.6	3.4	4,661	12.31	3.27	2.64	1.95
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,033	12.31	0.33	0.28	0.22
East-West Road	5.7	4.6	3.4	3,783	12.31	2.65	2.14	1.58

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

s

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	9.3	8.8	6.1
50 Feet from Roadway Edge	8.7	8.2	5.6
100 Feet from Roadway Edge	7.9	7.6	5.1

## Project Number: 10328-07 Project Title: UCLA LRDP

## **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

## **Roadway Data**

Intersection: Analysis Condition: Santa Monica Blvd./Sepulveda Blvd. Exisiting Traffic Volume (Regular Session)

							No. of	Average	Speed
					Roadw	ay Type	Lanes	A.M.	P.M.
North-South	Roadway:	S	Sepulveda B	lvd.	At C	Grade	2	15	20
East-West R	oadway:	S	Santa Monic	a Blvd.	At C	Grade	6	15	20
A.M. Peak H	our Traffic	Volumes			P.M. Peak	Hour Traffi	ic Volumes		
N			1		N	1		1	
	114	651	141			157	1,267	137	
N	<	v	>	E	W	<	v	>	
100 ^			^	72	110	^		^	
2,461 >			<	1,718	2,325	>		<	1,5
289 v			v	82	192	v		v	1
	<	*	>			<	^	> [	
	157	1,034	193			119	813	227	
s					S				

N-S Road:	2,406	N-S Road:	2,719
E-W Road:	4,839	E-W Road:	4,486

# **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С				
	Reference CO Concentrations			Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors	25 Feet	50 Feet	100 Feet	
A.M. Peak Traffic Hour									
North-South Road	2.7	2.2	1.7	2,406	12.31	0.80	0.65	0.50	
East-West Road	6.1	4.9	3.5	4,839	12.31	3.63	2.92	2.08	
P.M. Peak Traffic Hour									
North-South Road	2.7	2.2	1.7	2,719	9.33	0.69	0.56	0.43	
East-West Road	6.1	4.9	3.5	4,486	9.33	2.55	2.05	1.47	

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	10.2	9.0	6.7
50 Feet from Roadway Edge	9.4	8.4	6.1
100 Feet from Roadway Edge	8.4	7.7	5.4

Project Number: 10328-07 Project Title: UCLA LRDP

## **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

Intersection: Santa Monica Blvd./Veteran Ave. Analysis Condition: Exisiting Traffic Volume (Regular Session)

							No. of	Average	Speed
					Roady	vay Type	Lanes	A.M.	P.M.
North-South R	loadway:	V	eteran Ave.		At (	Grade	2	15	15
East-West Ro		S	Santa Monica	a Blvd.	At (	Grade	6	15	15
A.M. Peak Ho	ur Traffic	Volumes			P.M. Peal	k Hour Traf	fic Volumes		
N					N				
	48	164	84	-	w	46	337	30	
W 86 ^	<	v	·	33	146		v		(
1,874 >			<	1,623	1,486	-		<	1,58
3 v			v	14	15	v		v	7
	<	•	>			<	^	>	
	133	338	44			88	311	40	

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	753	N-S Road:	938
E-W Road:	3,767	E-W Road:	3,368

# **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

s

A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
Reference CO Concentrations			Traffic	Emission	Estimated CO Concentrations		
25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
2.7	2.2	1.7	753	12.31	0.25	0.20	0.16
6.1	4.9	3.5	3,767	12.31	2.83	2.27	1.62
2.7	2.2	1.7	938	12.31	0.31	0.25	0.20
6.1	4.9	3.5	3,368	12.31	2.53	2.03	1.45
	Referenc 25 Feet 2.7 6.1 2.7	Reference CO Conc           25 Feet         50 Feet           2.7         2.2           6.1         4.9           2.7         2.2	Reference         CO Concentrations           25 Feet         50 Feet         100 Feet           2.7         2.2         1.7           6.1         4.9         3.5           2.7         2.2         1.7	Reference CO Concentrations         Traffic           25 Feet         50 Feet         100 Feet         Volume           2.7         2.2         1.7         753           6.1         4.9         3.5         3,767           2.7         2.2         1.7         938	Reference CO Concentrations         Traffic 25 Feet         Emission 50 Feet           25 Feet         50 Feet         100 Feet         Volume         Factors1           2.7         2.2         1.7         753         12.31           6.1         4.9         3.5         3,767         12.31           2.7         2.2         1.7         938         12.31	Reference CO Concentrations         Traffic         Emission         Estimate           25 Feet         50 Feet         100 Feet         Volume         Factors <sup>1</sup> 25 Feet           2.7         2.2         1.7         753         12.31         0.25           6.1         4.9         3.5         3,767         12.31         2.83           2.7         2.2         1.7         938         12.31         0.31	Reference CO Concentrations         Traffic         Emission         Estimated CO Concentrations           25 Feet         50 Feet         100 Feet         Volume         Factors1         25 Feet         50 Feet         50 Feet           2.7         2.2         1.7         753         12.31         0.25         0.20           6.1         4.9         3.5         3,767         12.31         2.83         2.27           2.7         2.2         1.7         938         12.31         0.31         0.25

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

s

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	8.9	8.6	5.8
50 Feet from Roadway Edge	8.3	8.1	5.3
100 Feet from Roadway Edge	7.6	7.4	4.8

## Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

54 v

s

47

927

186

80

## **Roadway Data**

Intersection: Analysis Condition:

59 v

s

Santa Monica Blvd./Westwood Blvd. Exisiting Traffic Volume (Regular Session)

							No. of	Average	Speed
					Roadw	ау Туре	Lanes	A.M.	P.M.
North-Sou	th Roadway:	٧	Vestwood B	lvd.	At G	irade	4	15	15
East-West	t Roadway:	5	Santa Monic	a Blvd.	At G	irade	6	15	15
A.M. Peak	Hour Traffic	Volumes			P.M. Peak	Hour Traff	ic Volumes		
N	1		1		N	1		1	
	69	531	90		6 m - 1 - 1 - 1 - 1	116	1,173	96	
W	<	۷	>	E	W	<	v	>	E
175	^		^	148	158	^		^	183
1.362	>		<	1.420	1.324	>		<	1.387

Highest Traffic Volumes (Vehicles per Hour)

898

40

60

N-S Road:	1,911	N-S Road:	2,653
E-W Road:	3,192	E-W Road:	3,256

132

# **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations			Traffic	Emission	Estimated CO Concentrations		
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,911	12.31	0.61	0.52	0.40
East-West Road	6.1	4.9	3.5	3,192	12.31	2.40	1.92	1.37
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,653	12.31	0.85	0.72	0.56
East-West Road	6.1	4.9	3.5	3,256	12.31	2.44	1.96	1.40

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	8.8	9.1	5.9
50 Feet from Roadway Edge	8.2	8.5	5.5
100 Feet from Roadway Edge	7.6	7.8	5.0

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year:

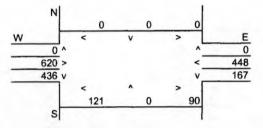
Northwest Coastal LA County 5.8 3.6 0.7 2002

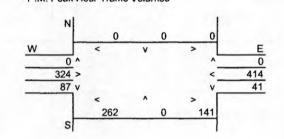
## **Roadway Data**

Intersection: Analysis Condition: Roscomare Rd./Mulholland Dr. Exisiting Traffic Volume (Regular Session)

			No. of	Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Roscomare Rd.	At Grade	2	10	20
East-West Roadway:	Mulholland Dr.	At Grade	2	10	20
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	814	N-S Road:	531
E-W Road:	1,625	E-W Road:	1,087

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	814	18.24	0.40	0.33	0.25
East-West Road	7.6	5.7	4.0	1,625	18.24	2.25	1.69	1.19
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	531	9.33	0.13	0.11	0.08
East-West Road	7.6	5.7	4.0	1,087	9.33	0.77	0.58	0.41

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

# **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	8.5	6.7	5.5
50 Feet from Roadway Edge	7.8	6.5	5.0
100 Feet from Roadway Edge	7.2	6.3	4.6

Project Number: 10328-07 Project Title: UCLA LRDP

## **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year:

Northwest Coastal LA County 5.8 3.6 0.7 2002

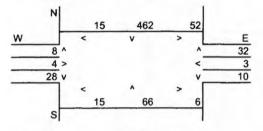
#### **Roadway Data**

Intersection:

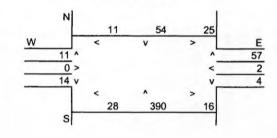
Roscomare Rd./Stradella Rd. - Linda Flora Dr. Exisiting Traffic Volume (Regular Session) Analysis Condition:

			No. of	Average Speed	
	the second se	Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Roscomare Rd.	At Grade	2	20	20
East-West Roadway:	Stradella Rd Linda Flora Dr.	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes







Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	635	N-S Road:	548
E-W Road:	107	E-W Road:	104

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	635	9.33	0.45	0.34	0.24
East-West Road	2.7	2.2	1.7	107	9.33	0.03	0.02	0.02
P.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	548	9.33	0.39	0.29	0.20
East-West Road	2.7	2.2	1.7	104	9.33	0.03	0.02	0.02

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

## **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.3	6.2	3.9
50 Feet from Roadway Edge	6.2	6.1	3.9
100 Feet from Roadway Edge	6.1	6.0	3.8

Project Number: 10328-07 Project Title: UCLA LRDP

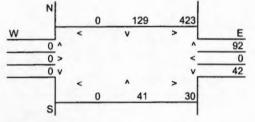
#### **Background Information**

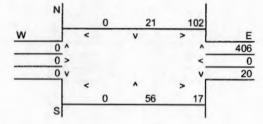
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

## **Roadway Data**

Intersection:	Chalon Rd./Bellagio Rd.
Analysis Condition:	Exisiting Traffic Volume (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Chalon Rd.	At Grade	2	20	20
East-West Roadway:	Bellagio Rd.	At Grade	2	20	20
A.M. Peak Hour Traffic Volu	Imes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	685	N-S Road:	585
E-W Road:	587	E-W Road:	545

## **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
7.6	5.7	4.0	685	9.33	0.49	0.36	0.26
2.7	2.2	1.7	587	9.33	0.15	0.12	0.09
7.6	5.7	4.0	585	9.33	0.41	0.31	0.22
2.7	2.2	1.7	545	9.33	0.14	0.11	0.09
	Reference 25 Feet 7.6 2.7 7.6	Reference CO Conc           25 Feet         50 Feet           7.6         5.7           2.7         2.2           7.6         5.7	Reference CO Concentrations           25 Feet         50 Feet         100 Feet           7.6         5.7         4.0           2.7         2.2         1.7           7.6         5.7         4.0	Reference CO Concentrations         Traffic           25 Feet         50 Feet         100 Feet         Volume           7.6         5.7         4.0         685           2.7         2.2         1.7         587           7.6         5.7         4.0         585	Reference CO Concentrations         Traffic         Emission           25 Feet         50 Feet         100 Feet         Volume         Factors <sup>1</sup> 7.6         5.7         4.0         685         9.33           2.7         2.2         1.7         587         9.33           7.6         5.7         4.0         585         9.33	Reference CO Concentrations         Traffic         Emission         Estimate           25 Feet         50 Feet         100 Feet         Volume         Factors <sup>1</sup> 25 Feet           7.6         5.7         4.0         685         9.33         0.49           2.7         2.2         1.7         587         9.33         0.15           7.6         5.7         4.0         585         9.33         0.41	Reference CO Concentrations         Traffic         Emission         Estimated CO Concentrations           25 Feet         50 Feet         100 Feet         Volume         Factors'         25 Feet         50 Feet           7.6         5.7         4.0         685         9.33         0.49         0.36           2.7         2.2         1.7         587         9.33         0.15         0.12           7.6         5.7         4.0         585         9.33         0.41         0.31

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.4	6.4	4.0
50 Feet from Roadway Edge	6.3	6.2	3.9
100 Feet from Roadway Edge	6.1	6.1	3.8

Project Number: 10328-07 Project Title: UCLA LRDP

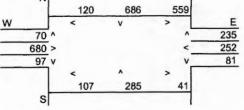
#### **Background Information**

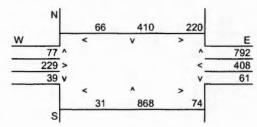
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

#### **Roadway Data**

Intersection:	Beverly Glen Blvd./Mulholland Dr.
Analysis Condition:	Exisiting Traffic Volume (Regular Session)

		No.		Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Beverly Glen Blvd.	At Grade	4	10	10
East-West Roadway:	Mulholland Dr.	At Grade	2	10	10
A.M. Peak Hour Traffic Vol	umes	P.M. Peak Hour Traf	fic Volumes		
N	1	N			1





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,955	N-S Road:	2,433
E-W Road:	1,848	E-W Road:	1,784

## **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A2	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,955	18.24	2.50	1.93	1.36
East-West Road	2.7	2.2	1.7	1,848	18.24	0.91	0.74	0.57
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,433	18.24	3.11	2.40	1.69
East-West Road	2.7	2.2	1.7	1,784	18.24	0.88	0.72	0.55

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

## **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	9.2	9.8	6.4
50 Feet from Roadway Edge	8.5	8.9	5.8
100 Feet from Roadway Edge	7.7	8.0	5.2

# Project Number: 10328-07 Project Title: UCLA LRDP

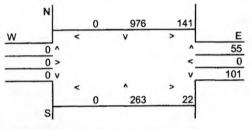
#### **Background Information**

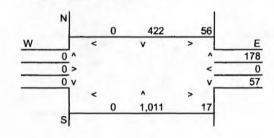
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 5.8 3.6 0.7 2002

## **Roadway Data**

Intersection: Analysis Condition: Beverly Glen Blvd./Greendale Dr. Exisiting Traffic Volume (Regular Session)

			No. of	Averag	e Speed	
		Roadway Type	Lanes	A.M.	P.M.	
North-South Roadway:	Beverly Glen Blvd.	At Grade	4	15	15	
East-West Roadway:	Greendale Dr.	At Grade	2	15	15	
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes			





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,435	N-S Road:	1,667	
E-W Road:	319	E-W Road:	308	

# **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,435	12.31	1.24	0.95	0.67
East-West Road	2.7	2.2	1.7	319	12.31	0.11	0.09	0.07
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,667	12.31	1.44	1.11	0.78
East-West Road	2.7	2.2	1.7	308	12.31	0.10	0.08	0.06

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

## **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

A.M.	P.M.	
Peak Hour	Peak Hour	8-Hour
7.1	7.3	4.7
6.8	7.0	4.4
6.5	6.6	4.2
	Peak Hour 7.1 6.8	Peak HourPeak Hour7.17.36.87.0

#### Project Number: 10328-07 Project Title: UCLA LRDP

## **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year:

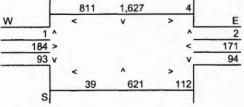
Northwest Coastal LA County 4.4 2.8 0.7 2010

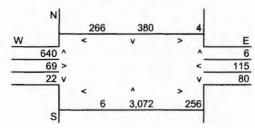
#### **Roadway Data**

Intersection:

Church Ln.-Ovada Ln./Sepulveda Blvd. Analysis Condition: Future Plus Project (Regular Session)

		No. of	Average	ge Speed	
	Roadway Type	Lanes	A.M.	P.M.	
Sepulveda Blvd.	At Grade	4	10	15	
Church LnOvada Ln.	At Grade	4	10	15	
umes	P.M. Peak Hour Traf	fic Volumes			
1	N	200	10		
	Church LnOvada Ln.	Sepulveda Blvd. At Grade Church LnOvada Ln. At Grade umes P.M. Peak Hour Traf	Roadway Type     Lanes       Sepulveda Blvd.     At Grade     4       Church LnOvada Ln.     At Grade     4       umes     P.M. Peak Hour Traffic Volumes       N     N	Roadway Type     Lanes     A.M.       Sepulveda Blvd.     At Grade     4     10       Church LnOvada Ln.     At Grade     4     10       umes     P.M. Peak Hour Traffic Volumes       N	





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	3,066	N-S Road:	4,368
E-W Road:	1,299	E-W Road:	1,118

## **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	3,066	10.78	2.31	1.78	1.26
East-West Road	2.6	2.2	1.7	1,299	10.78	0.36	0.31	0.24
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	4,368	7.30	2.23	1.72	1.21
East-West Road	2.6	2.2	1.7	1,118	7.30	0.21	0.18	0.14

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	7.1	6.8	4.7
50 Feet from Roadway Edge	6.5	6.3	4.3
100 Feet from Roadway Edge	5.9	5.8	3.8

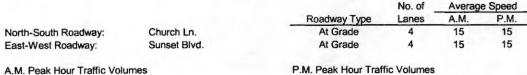
## Project Number: 10328-07 Project Title: UCLA LRDP

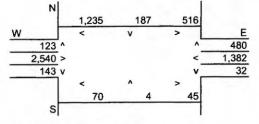
## **Background Information**

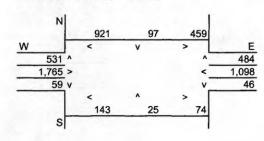
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

#### **Roadway Data**

Intersection: Analysis Condition:	Sunset Blvd./Church Li Future Plus Project Tra	n. iffic Volumes (Regular Session	n)	
			No. of	Av
		Roadway Type	Lanes	A.I
Marth Carth Dandumu	Church I.m	At Crode	4	4.







Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,545	N-S Road:	2,517
E-W Road:	5,493	E-W Road:	4,517

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A1	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,545	7.30	0.48	0.41	0.32
East-West Road	7.0	5.4	3.8	5,493	7.30	2.81	2.17	1.52
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,517	7.30	0.48	0.40	0.31
East-West Road	7.0	5.4	3.8	4,517	7.30	2.31	1.78	1.25

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	7.7	7.2	5.1
50 Feet from Roadway Edge	7.0	6.6	4.6
100 Feet from Roadway Edge	6.2	6.0	4.1

Project Number: 10328-07 Project Title: UCLA LRDP

# **Background Information**

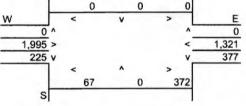
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

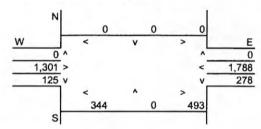
# Roadway Data

 Intersection:
 Sunset Blvd./Veteran Ave.

 Analysis Condition:
 Future Plus Project Traffic Volumes (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Veteran Ave.	At Grade	2	15	15
East-West Roadway:	Sunset Blvd.	At Grade	4	15	15
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		
N	1	N			





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,041	N-S Road:	1,240
E-W Road:	4,065	E-W Road:	3,860

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic E	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,041	7.30	0.21	0.17	0.13
East-West Road	7.0	5.4	3.8	4,065	7.30	2.08	1.60	1.13
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,240	7.30	0.24	0.20	0.15
East-West Road	7.0	5.4	3.8	3,860	7.30	1.97	1.52	1.07

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

## **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.7	6.6	4.4
50 Feet from Roadway Edge	6.2	6.1	4.0
100 Feet from Roadway Edge	5.7	5.6	3.7

Project Number: 10328-07 Project Title: UCLA LRDP

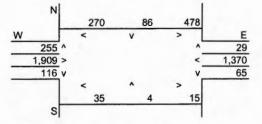
#### **Background Information**

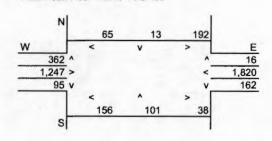
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

# **Roadway Data**

Intersection: Analysis Condition: Sunset Blvd./Bellagio Way Future Plus Project Traffic Volumes (Regular Session)

			No. of Lanes 2	Average Spee	
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Bellagio Way	At Grade	2	10	10
East-West Roadway:	Sunset Blvd.	At Grade	4	10	10
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,122	N-S Road:	749
E-W Road:	3,955	E-W Road:	3,745

## **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,122	10.78	0.33	0.27	0.21
East-West Road	7.0	5.4	3.8	3,955	10.78	2.98	2.30	1.62
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	749	10.78	0.22	0.18	0.14
East-West Road	7.0	5.4	3.8	3,745	10.78	2.83	2.18	1.53

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

## **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	7.7	7.4	5.1
50 Feet from Roadway Edge	7.0	6.8	4.6
100 Feet from Roadway Edge	6.2	6.1	4.1

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

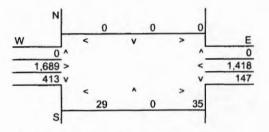
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

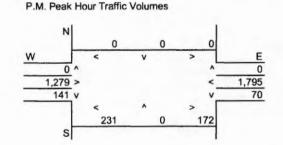
## **Roadway Data**

Intersection: Analysis Condition: Sunset Blvd./Westwood Blvd. Future Plus Project Traffic Volumes (Regular Session)

Average Speed No. of A.M. P.M. Roadway Type Lanes North-South Roadway: Westwood Blvd At Grade 4 20 20 Sunset Blvd. 20 20 East-West Roadway: At Grade 4

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	624	N-S Road:	614
E-W Road:	3,549	E-W Road:	3,446

## **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	624	5.52	0.09	0.08	0.06
East-West Road	7.0	5.4	3.8	3,549	5.52	1.37	1.06	0.74
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	614	5.52	0.09	0.07	0.06
East-West Road	7.0	5.4	3.8	3,446	5.52	1.33	1.03	0.72

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.9	5.8	3.8
50 Feet from Roadway Edge	5.5	5.5	3.6
100 Feet from Roadway Edge	5.2	5.2	3.4

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

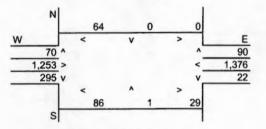
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

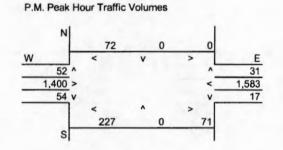
#### **Roadway Data**

Intersection: Analysis Condition: Sunset Blvd./Stone Canyon Rd. Future Plus Project Traffic Volumes (Regular Session)

No. of Average Speed Roadway Type Lanes A.M. P.M. Stone Canyon Rd. North-South Roadway: At Grade 2 20 20 East-West Roadway: Sunset Blvd. At Grade 4 20 20

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	433	N-S Road:	369
E-W Road:	3,144	E-W Road:	3,388

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A1	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	433	5.52	0.06	0.05	0.04
East-West Road	7.0	5.4	3.8	3,144	5.52	1.21	0.94	0.66
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	369	5.52	0.05	0.04	0.03
East-West Road	7.0	5.4	3.8	3,388	5.52	1.31	1.01	0.71

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.7	5.8	3.8
50 Feet from Roadway Edge	5.4	5.5	3.5
100 Feet from Roadway Edge	5.1	5.1	3.3

#### Project Number: 10328-07 Project Title: UCLA LRDP

## **Background Information**

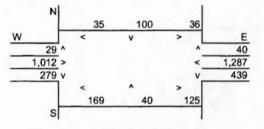
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year:

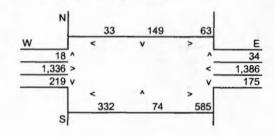
Northwest Coastal LA County 4.4 2.8 0.7 2010

#### **Roadway Data**

Intersection: Analysis Condition: Sunset Blvd.-Hilgard Ave./Copa De Oro Rd. Future Plus Project Traffic Volumes (Regular Session)

			No. of	Average Speed	
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Copa De Oro Rd.	At Grade	2	15	15
East-West Roadway:	Sunset Blvd Hilgard Ave.	At Grade	4	15	15
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,152	N-S Road:	1,534
E-W Road:	2,939	E-W Road:	3,579

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,152	7.30	0.23	0.19	0.14
East-West Road	7.0	5.4	3.8	2,939	7.30	1.50	1.16	0.82
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,534	7.30	0.30	0.25	0.19
East-West Road	7.0	5.4	3.8	3,579	7.30	1.83	1.41	0.99

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.1	6.5	4.3
50 Feet from Roadway Edge	5.7	6.1	4.0
100 Feet from Roadway Edge	5.4	5.6	3.6

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

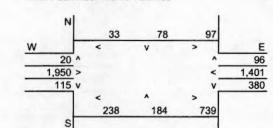
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

# **Roadway Data**

Intersection: Analysis Condition: Sunset Blvd.- Beverly Glen Blvd./Bel Air Rd. Future Plus Project Traffic Volumes (Regular Session)

				Average Speed	
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Beverly Glen Blvd./ Bel Air Rd.	At Grade	4	10	10
East-West Roadway:	Sunset Blvd.	At Grade	4	10	10
A.M. Peak Hour Traffic Volu	mes	P.M. Peak Hour Traf	fic Volumes		

N 98 95 25 E W 22 ^ 85 999 > 1,885 198 v 703 116 86 525 S



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,726	N-S Road:	1,734
E-W Road:	4,292	E-W Road:	4,663

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A1	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,726	10.78	0.48	0.41	0.32
East-West Road	7.0	5.4	3.8	4,292	10.78	3.24	2.50	1.76
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,734	10.78	0.49	0.41	0.32
East-West Road	7.0	5.4	3.8	4,663	10.78	3.52	2.71	1.91

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	8.1	8.4	5.6
50 Feet from Roadway Edge	7.3	7.5	5.0
100 Feet from Roadway Edge	6.5	6.6	4.4

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

0

S

#### **Roadway Data**

Intersection: Analysis Condition:

0 v

s

Sunset Blvd. (east IS) & Beverly Glen Blvd. Future Plus Project Traffic Volumes (Regular Session)

							No. of	Average	e Speed
					Roadw	ay Type	Lanes	A.M.	P.M.
North-Sou	th Roadway:	1	Beverly Gle	n Blvd.	At G	Fade	4	10	10
East-Wes	t Roadway:		Sunset Blvd	(east IS)	At G	Grade	4	10	10
A.M. Peak	k Hour Traffic	Volumes			P.M. Peak	Hour Traf	fic Volumes		
N		1.077	172		N		734	110	
w	<	V	>	F	w	<	V V	>	F
	^		~	52	0	^			129
			-	1 841	0	>		<	0

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,915	N-S Road:	4,895
E-W Road:	3,284	E-W Road:	3,109

0

>

1,219

619

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,000<sup>1</sup>

	A1	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,915	10.78	0.82	0.69	0.53
East-West Road	7.0	5.4	3.8	3,284	10.78	2.48	1.91	1.35
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	4,895	10.78	3.69	2.85	2.01
East-West Road	2.6	2.2	1.7	3,109	10.78	0.87	0.74	0.57

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	7.7	9.0	6.0
50 Feet from Roadway Edge	7.0	8.0	5.3
100 Feet from Roadway Edge	6.3	7.0	4.6

<sup>2</sup> Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

1,214

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1,656

1,291

0

### Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

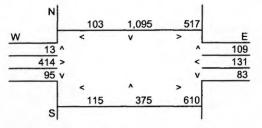
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

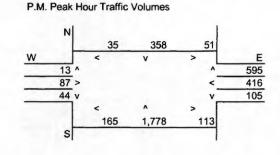
#### **Roadway Data**

Intersection: Analysis Condition: Montana Ave./Sepulveda Blvd. Future Plus Project Traffic Volumes (Regular Session)

No. of Average Speed A.M. P.M. Roadway Type Lanes North-South Roadway: Sepulveda Blvd. At Grade 10 15 4 East-West Roadway: Montana Ave. At Grade 2 10 15

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,373	N-S Road:	2,830
E-W Road:	1,864	E-W Road:	1,367

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A1	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,373	10.78	1.79	1.38	0.97
East-West Road	2.7	2.2	1.7	1,864	10.78	0.54	0.44	0.34
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,830	7.30	1.45	1.12	0.79
East-West Road	2.7	2.2	1.7	1,367	7.30	0.27	0.22	0.17

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.7	6.1	4.4
50 Feet from Roadway Edge	6.2	5.7	4.1
100 Feet from Roadway Edge	5.7	5.4	3.7

<sup>2</sup> Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

13 Montana Ave. & Sepulveda Blvd.xls

### Project Number: 10328-07 Project Title: UCLA LRDP

# **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

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# Roadway Data

Intersection: Montana Ave./Levering Ave. Analysis Condition: Future Plus Project Traffic Volumes (Regular Session)

No. of Average Speed Roadway Type Lanes A.M. P.M. North-South Roadway: Levering Ave. At Grade 2 10 15 East-West Roadway: Montana Ave. At Grade 2 10 15 A.M. Peak Hour Traffic Volumes P.M. Peak Hour Traffic Volumes N N 0 Е W W E 0 0 / 0 ^ 0 920 > 205 282 > 802 388 v 3 78 v 1 50 294

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	443	N-S Road:	379
E-W Road:	1,563	E-W Road:	1,456

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,000<sup>1</sup>

S

	A1	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feel
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	443	10.78	0.13	0.11	0.08
East-West Road	7.6	5.7	4.0	1,563	10.78	1.28	0.96	0.67
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	379	7.30	0.07	0.06	0.05
East-West Road	7.6	5.7	4.0	1,456	7.30	0.81	0.61	0.43

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.8	5.3	3.8
50 Feet from Roadway Edge	5.5	5.1	3.5
100 Feet from Roadway Edge	5.2	4.9	3.3

### Project Number: 10328-07 Project Title: UCLA LRDP

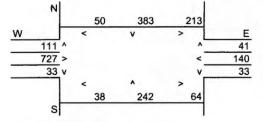
### **Background Information**

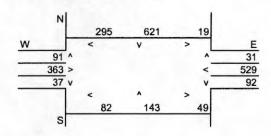
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

#### **Roadway Data**

Intersection: Analysis Condition: Montana Ave./ Gayley Ave. - Veteran Ave. Future Plus Project Traffic Volumes (Regular Session)

			No. of	Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Gayley Ave Veteran Ave.	At Grade	4	15	10
East-West Roadway:	Montana Ave.	At Grade	2	15	10
A.M. Peak Hour Traffic Vol	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,040	N-S Road:	1,200
E-W Road:	1,218	E-W Road:	1,397

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feel
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,040	7.30	0.20	0.17	0.13
East-West Road	7.6	5.7	4.0	1,218	7.30	0.68	0.51	0.36
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,200	10.78	0.34	0.28	0.22
East-West Road	7.6	5.7	4.0	1,397	10.78	1.14	0.86	0.60

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.3	5.9	3.8
50 Feet from Roadway Edge	5.1	5.5	3.6
100 Feet from Roadway Edge	4.9	5.2	3.4

#### Project Number: 10328-07 Project Title: UCLA LRDP

Background Information

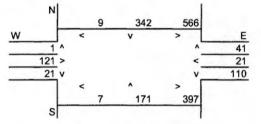
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

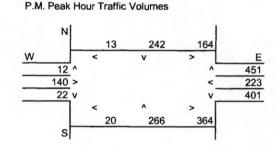
#### **Roadway Data**

Intersection: Analysis Condition: Strathmore PI./Gayley Ave. Future Plus Project Traffic Volumes (Regular Session)

Roadway Type	Lanes	A.M.	P.M.
At Grade	4	20	20
At Grade	2	20	20
	At Grade	At Grade 4	At Grade 4 20

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,130	N-S Road:	1,315
E-W Road:	1,256	E-W Road:	1,743

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
2.6	2.2	1.7	1,130	5.52	0.16	0.14	0.11
7.6	5.7	4.0	1,256	5.52	0.53	0.40	0.28
2.6	2.2	1.7	1,315	5.52	0.19	0.16	0.12
7.6	5.7	4.0	1,743	5.52	0.73	0.55	0.38
	Reference 25 Feet 2.6 7.6 2.6	Reference CO Conc           25 Feet         50 Feet           2.6         2.2           7.6         5.7           2.6         2.2	Reference CO Concentrations           25 Feet         50 Feet         100 Feet           2.6         2.2         1.7           7.6         5.7         4.0           2.6         2.2         1.7	Reference CO Concentrations         Traffic           25 Feet         50 Feet         100 Feet         Volume           2.6         2.2         1.7         1,130           7.6         5.7         4.0         1,256           2.6         2.2         1.7         1,315	Reference CO Concentrations         Traffic         Emission           25 Feet         50 Feet         100 Feet         Volume         Factors <sup>1</sup> 2.6         2.2         1.7         1,130         5.52           7.6         5.7         4.0         1,256         5.52           2.6         2.2         1.7         1,315         5.52	Reference CO Concentrations         Traffic         Emission         Estimate           25 Feet         50 Feet         100 Feet         Volume         Factors <sup>1</sup> 25 Feet           2.6         2.2         1.7         1,130         5.52         0.16           7.6         5.7         4.0         1,256         5.52         0.53           2.6         2.2         1.7         1,315         5.52         0.19	Reference CO Concentrations         Traffic         Emission         Estimated CO Concentrations           25 Feet         50 Feet         100 Feet         Volume         Factors <sup>1</sup> 25 Feet         50 Feet           2.6         2.2         1.7         1,130         5.52         0.16         0.14           7.6         5.7         4.0         1,256         5.52         0.53         0.40           2.6         2.2         1.7         1,315         5.52         0.19         0.16

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.1	5.3	3.4
50 Feet from Roadway Edge	4.9	5.1	3.3
100 Feet from Roadway Edge	4.8	4.9	3.2

Project Number: 10328-07 Project Title: UCLA LRDP

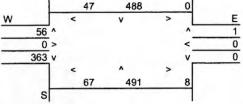
#### **Background Information**

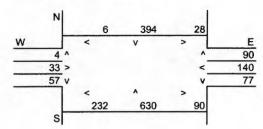
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

#### **Roadway Data**

Intersection: Analysis Condition: Levering Ave./Veteran Ave. Future Plus Project Traffic Volumes (Regular Session)

Average Speed No. of Lanes A.M. P.M. Roadway Type North-South Roadway: Veteran Ave. At Grade 2 20 20 At Grade 2 20 20 East-West Roadway: Levering Ave. P.M. Peak Hour Traffic Volumes A.M. Peak Hour Traffic Volumes N N





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,417	N-S Road:	1,480
E-W Road:	533	E-W Road:	472

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,000<sup>1</sup>

	A,	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors'	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	1,417	5.52	0.59	0.45	0.31
East-West Road	2.7	2.2	1.7	533	5.52	0.08	0.06	0.05
P.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	1,480	5.52	0.62	0.47	0.33
East-West Road	2.7	2.2	1.7	472	5.52	0.07	0.06	0.04

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Ernissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.1	5.1	3.3
50 Feet from Roadway Edge	4.9	4.9	3.2
100 Feet from Roadway Edge	4.8	4.8	3.1

### Project Number: 10328-07 Project Title: UCLA LRDP

# **Background Information**

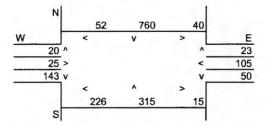
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

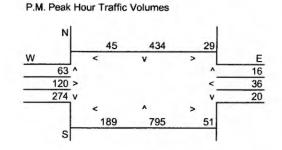
# **Roadway Data**

Intersection: Wyton Dr./Hilgard Ave. Analysis Condition: Future Plus Project Traffic Volumes (Regular Session)

			No. of	Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Hilgard Ave.	At Grade	4	20	20
East-West Roadway:	Wyton Dr.	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,509	N-S Road:	1,763
E-W Road:	571	E-W Road:	727

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,509	5.52	0.58	0.45	0.32
East-West Road	2.7	2.2	1.7	571	5.52	0.09	0.07	0.05
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,763	5.52	0.68	0.53	0.37
East-West Road	2.7	2.2	1.7	727	5.52	0.11	0.09	0.07

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

# **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.1	5.2	3.4
50 Feet from Roadway Edge	4.9	5.0	3.2
100 Feet from Roadway Edge	4.8	4.8	3.1

Project Number: 10328-07 Project Title: UCLA LRDP

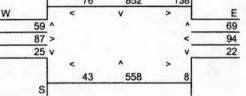
### Background Information

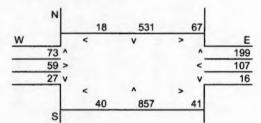
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

#### **Roadway Data**

Intersection: Analysis Condition: Wyton Dr. - Comstock Ave./Beverly Glen Blvd. Future Plus Project Traffic Volumes (Regular Session)

							No. of	Average	Speed
					Roadway Ty	pe	Lanes	A.M.	P.M.
North-South Re	badway:	В	everly Glen B	vd.	At Grade		4	15	15
East-West Roa	idway:	W	vyton Dr Cor	nstock Ave.	At Grade		2	15	15
A.M. Peak Hou	r Traffic Vo	olumes			P.M. Peak Hour	Traffic	Volumes		
N			1		N				
	76	852	138			18	531	67	





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,752	N-S Road:	1,745
E-W Road:	418	E-W Road:	489

# **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations			Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Fee
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,752	7.30	0.90	0.69	0.49
East-West Road	2.7	2.2	1.7	418	7.30	0.08	0.07	0.05
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,745	7.30	0.89	0.69	0.48
East-West Road	2.7	2.2	1.7	489	7.30	0.10	0.08	0.06

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

A.M. P.M. Peak Hour Peak Hour 8-Hour 25 Feet from Roadway Edge 5.4 5.4 3.5 50 Feet from Roadway Edge 5.2 5.2 3.3 100 Feet from Roadway Edge 4.9 4.9 3.2

### Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

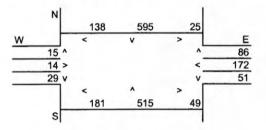
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

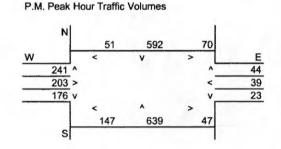
#### **Roadway Data**

Intersection: Analysis Condition: Westholme Ave./Hilgard Ave. Future Plus Project Traffic Volumes (Regular Session)

No. of Average Speed A.M. P.M. Roadway Type Lanes North-South Roadway: Hilgard Ave. At Grade 4 20 20 Westholme Ave. 2 20 20 East-West Roadway: At Grade

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,420	N-S Road:	1,637	
E-W Road:	549	E-W Road:	857	

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,420	5.52	0.55	0.42	0.30
East-West Road	2.7	2.2	1.7	549	5.52	0.08	0.07	0.05
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,637	5.52	0.63	0.49	0.34
East-West Road	2.7	2.2	1.7	857	5.52	0.13	0.10	0.08

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.0	5.2	3.3
50 Feet from Roadway Edge	4.9	5.0	3.2
100 Feet from Roadway Edge	4.7	4.8	3.1

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

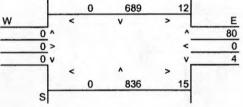
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

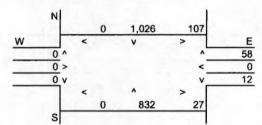
### **Roadway Data**

Intersection: Analysis Condition: Manning Ave./Hilgard Ave. Future Plus Project Traffic Volumes (Regular Session)

No. of Average Speed Roadway Type Lanes A.M. P.M. North-South Roadway: Hilgard Ave. At Grade 4 20 20 Manning Ave. At Grade 2 20 20 East-West Roadway: A.M. Peak Hour Traffic Volumes P.M. Peak Hour Traffic Volumes







Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,617	N-S Road:	2,023
E-W Road:	111	E-W Road:	204

# Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	C			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,617	5.52	0.62	0.48	0.34
East-West Road	2.7	2.2	1.7	111	5.52	0.02	0.01	0.01
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,023	5.52	0.78	0.60	0.42
East-West Road	2.7	2.2	1.7	204	5.52	0.03	0.02	0.02

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.0	5.2	3.4
50 Feet from Roadway Edge	4.9	5.0	3.2
100 Feet from Roadway Edge	4.7	4.8	3.1

### Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

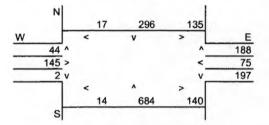
#### **Roadway Data**

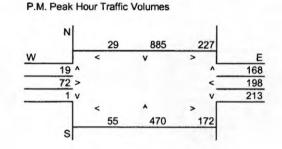
 Intersection:
 Le Conte Ave./Gayley Ave

 Analysis Condition:
 Future Plus Project Traffic Volumes (Regular Session)

No. of Average Speed P.M. A.M. Roadway Type Lanes North-South Roadway: Gayley Ave. At Grade 20 20 4 East-West Roadway: Le Conte Ave. At Grade ٨ 20 20

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,364	N-S Road:	1,798
E-W Road:	880	E-W Road:	1,050

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conce	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,364	5.52	0.53	0.41	0.29
East-West Road	2.6	2.2	1.7	880	5.52	0.13	0.11	0.08
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,798	5.52	0.69	0.54	0.38
East-West Road	2.6	2.2	1.7	1,050	5.52	0.15	0.13	0.10

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.1	5.2	3.4
50 Feet from Roadway Edge	4.9	5.1	3.3
100 Feet from Roadway Edge	4.8	4.9	3.1

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

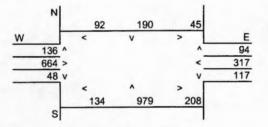
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

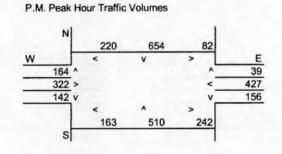
#### **Roadway Data**

Intersection: Analysis Condition: Le Conte Ave./Westwood Ave. Future Plus Project Traffic Volumes (Regular Session)

No. of Average Speed Roadway Type Lanes A.M. P.M. 20 20 Westwood Ave. North-South Roadway: At Grade 6 East-West Roadway: Le Conte Ave. At Grade A 20 20

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,676	N-S Road:	1,867
E-W Road:	1,445	E-W Road:	1,438

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A,	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	6.1	4.9	3.5	1,676	5.52	0.56	0.45	0.32
East-West Road	2.6	2.2	1.7	1,445	5.52	0.21	0.18	0.14
P.M. Peak Traffic Hour								
North-South Road	6.1	4.9	3.5	1,867	5.52	0.63	0.50	0.36
East-West Road	2.6	2.2	1.7	1,438	5.52	0.21	0.17	0.13

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.2	5.2	3.4
50 Feet from Roadway Edge	5.0	5.1	3.3
100 Feet from Roadway Edge	4.9	4.9	3.1

Project Number: 10328-07 Project Title: UCLA LRDP

# **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

523 >

109 v

S

e

60

62

482

57

### **Roadway Data**

357 >

54 v

s

Intersection: Le Conte Ave./Tiverton Ave. Analysis Condition: Future Plus Project Traffic Volumes (Regular Session)

40

			No. of	Average	Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Tiverton Ave.	At Grade	2	20	20
East-West Roadway:	Le Conte Ave.	At Grade	4	20	20
A.M. Peak Hour Traffic Vol	umes	P.M. Peak Hour Tra	ffic Volumes		
N	1	N		1	
220	65 34	232	2 108	99	
W < .	v > E	W <	v	>	E
187 ^	^ 90	134 ^		^	41



187

13

N-S Road:	783	N-S Road:	674
E-W Road:	1,250	E-W Road:	1,524

419

32

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	783	5.52	0.12	0.10	0.07
East-West Road	7.0	5.4	3.8	1,250	5.52	0.48	0.37	0.26
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	674	5.52	0.10	0.08	0.06
East-West Road	7.0	5.4	3.8	1,524	5.52	0.59	0.45	0.32

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.0	5.1	3.3
50 Feet from Roadway Edge	4.9	4.9	3.2
100 Feet from Roadway Edge	4.7	4.8	3.1

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

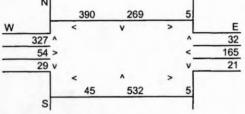
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

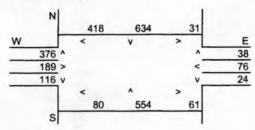
#### **Roadway Data**

Intersection: Analysis Condition: Le Conte Ave./Hilgard Ave.

Future Plus Project Traffic Volumes (Regular Session)

			No. of	Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Hilgard Ave.	At Grade	4	20	20
East-West Roadway:	Le Conte Ave.	At Grade	4	20	20
A.M. Peak Hour Traffic Vol	umes	P.M. Peak Hour Traf	fic Volumes		
a.l	1	NI			1





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,555	N-S Road:	2,051
E-W Road:	1,010	E-W Road:	1,255

### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,555	5.52	0.60	0.46	0.33
East-West Road	2.6	2.2	1.7	1,010	5.52	0.14	0.12	0.09
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,051	5.52	0.79	0.61	0.43
East-West Road	2.6	2.2	1.7	1,255	5.52	0.18	0.15	0.12

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.1	5.4	3.5
50 Feet from Roadway Edge	5.0	5.2	3.3
100 Feet from Roadway Edge	4.8	4.9	3.2

### Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year:

Northwest Coastal LA County 4.4 2.8 0.7 2010

### **Roadway Data**

							No. of	Average	Speed
					Roadw	ау Туре	Lanes	A.M.	P.M.
North-South I	Roadway:	G	Bayley Ave.		At G	irade	4	20	20
East-West Ro	badway:	v	Veyburn Ave	0	At G	irade	2	20	20
A.M. Peak Ho	our Traffic	Volumes			P.M. Peak	Hour Traff	ic Volumes		
N			1		N			1	
	114	507	49			200	1,267	95	
N	<	v	>	E	W	<	v	>	I
131 ^			^	47	98			^	9
213 >			<	59	134			<	19
56 v			v	55	59	v		v	110
	<	^	>			<	^	>	
	29	728	115			67	698	148	
S					S	1			

602

**Roadway CO Contributions and Concentrations** 

Emissions = (A x B x C) / 100,0001

E-W Road:

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,576	5.52	0.61	0.47	0.33
East-West Road	2.7	2.2	1.7	602	5.52	0.09	0.07	0.06
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,451	5.52	0.95	0.73	0.51
East-West Road	2.7	2.2	1.7	778	5.52	0.12	0.09	0.07

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

E-W Road:

778

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.1	5.5	3.5
50 Feet from Roadway Edge	4.9	5.2	3.4
100 Feet from Roadway Edge	4.8	5.0	3.2

Project Number: 10328-07 Project Title: UCLA LRDP

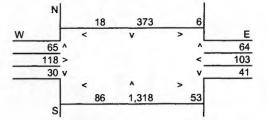
#### **Background Information**

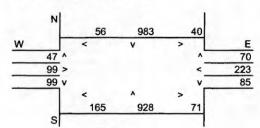
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

#### **Roadway Data**

Intersection: Analysis Condition: Weyburn Ave./Westwood Blvd. Future Plus Project Traffic Volumes (Regular Session)

No. of Average Speed lanes A.M. P.M. Roadway Type North-South Roadway: Westwood Blvd. At Grade 4 20 20 Weyburn Ave. At Grade 2 20 20 East-West Roadway: A.M. Peak Hour Traffic Volumes P.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,901	N-S Road:	2,331
E-W Road:	420	E-W Road:	689

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference CO Concentrations		Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,901	5.52	0.73	0.57	0.40
East-West Road	2.7	2.2	1.7	420	5.52	0.06	0.05	0.04
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,331	5.52	0.90	0.69	0.49
East-West Road	2.7	2.2	1.7	689	5.52	0.10	0.08	0.06

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.2	5.4	3.5
50 Feet from Roadway Edge	5.0	5.2	3.3
100 Feet from Roadway Edge	4.8	5.0	3.2

### Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

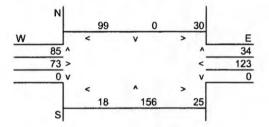
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

#### **Roadway Data**

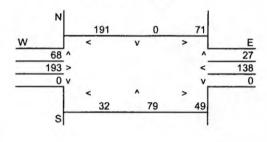
Intersection: Analysis Condition: Weyburn Ave,/Tiverton Dr. Future Plus Project Traffic Volumes (Regular Session)

			No. of		e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Tiverton Dr.	At Grade	2	20	20
East-West Roadway:	Weyburn Ave.	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	404	N-S Road:	436
E-W Road:	398	E-W Road:	622

### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	404	5.52	0.17	0.13	0.09
East-West Road	2.7	2.2	1.7	398	5.52	0.06	0.05	0.04
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	436	5.52	0.06	0.05	0.04
East-West Road	7.6	5.7	4.0	622	5.52	0.26	0.20	0.14

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	4.6	4.7	3.0
50 Feet from Roadway Edge	4.6	4.6	3.0
100 Feet from Roadway Edge	4.5	4.6	2.9

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year:

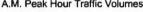
Northwest Coastal LA County 4.4 2.8 0.7 2010

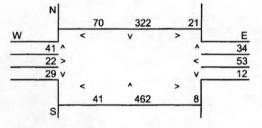
#### **Roadway Data**

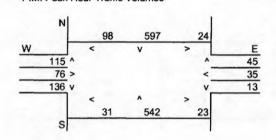
Intersection: Analysis Condition: Weyburn Ave./ Hilgard Ave.

Future Plus Project Traffic Volumes (Regular Session)

				Average Speed	
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Hilgard Ave.	At Grade	2	20	20
East-West Roadway:	Weyburn Ave.	At Grade	2	20	20
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		







Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	950	N-S Road:	1,421
E-W Road:	256	E-W Road:	491

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Fee
A.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	950	5.52	0.40	0.30	0.21
East-West Road	2.7	2.2	1.7	256	5.52	0.04	0.03	0.02
P.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	1,421	5.52	0.60	0.45	0.31
East-West Road	2.7	2.2	1.7	491	5.52	0.07	0.06	0.05

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	4.8	5.1	3.3
50 Feet from Roadway Edge	4.7	4.9	3.2
100 Feet from Roadway Edge	4.6	4.8	3.1

### Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

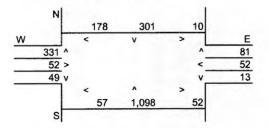
#### **Roadway Data**

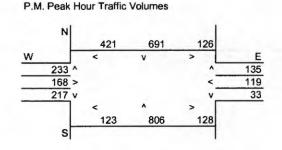
Intersection: Analysis Condition: Kinross Ave./Westwood Blvd.

Future Plus Project Traffic Volumes (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Westwood Blvd.	At Grade	4	20	10
East-West Roadway:	Kinross Ave.	At Grade	4	20	10

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,999	N-S Road:	2,412
E-W Road:	719	E-W Road:	1,281

# **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,999	5.52	0.77	0.60	0.42
East-West Road	2.6	2.2	1.7	719	5.52	0.10	0.09	0.07
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,412	10.78	1.82	1.40	0.99
East-West Road	2.6	2.2	1.7	1,281	10.78	0.36	0.30	0.23

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	А.М.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.3	6.6	4.3
50 Feet from Roadway Edge	5.1	6.1	4.0
100 Feet from Roadway Edge	4.9	5.6	3.7

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

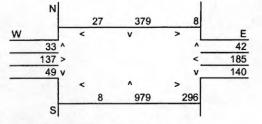
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

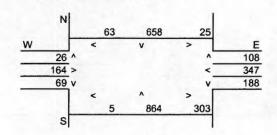
### **Roadway Data**

Intersection: Analysis Condition: Lindbrook Dr./ Westwood Blvd.

Future Plus Project Traffic Volumes (Regular Session)

			No. of	Averag	age Speed	
		Roadway Type	Lanes	A.M.	P.M.	
North-South Roadway:	Westwood Blvd.	At Grade	4	20	20	
East-West Roadway:	Lindbrook Dr.	At Grade	4	20	15	
A.M. Peak Hour Traffic Vol	umes	P.M. Peak Hour Traf	fic Volumes			





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,851	N-S Road:	2,087
E-W Road:	808	E-W Road:	1,135

# Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,000<sup>1</sup>

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	C			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,851	5.52	0.72	0.55	0.39
East-West Road	2.6	2.2	1.7	808	5.52	0.12	0.10	0.08
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,087	5.52	0.81	0.62	0.44
East-West Road	2.6	2.2	1.7	1,135	7.30	0.22	0.18	0.14

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.2	5.4	3.5
50 Feet from Roadway Edge	5.0	5.2	3.4
100 Feet from Roadway Edge	4.9	5.0	3.2

# Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO:	
Background 1-hour CO Concentration (ppm):	
Background 8-hour CO Concentration (ppm):	
Persistence Factor:	
Analysis Year:	

Northwest Coastal LA County 4.4 2.8 0.7 2010

Average Speed

P.M.

20 20

E

64

381

311

A.M.

20

20

105

>

5

204

#### **Roadway Data**

Intersection: Lindbrook Dr./ Tiverton Ave. Future Plus Project Traffic Volumes (Regular Session) Analysis Condition: No. of Roadway Type Lanes North-South Roadway: Tiverton Ave. At Grade 2 East-West Roadway: Lindbrook Dr. At Grade 4 A.M. Peak Hour Traffic Volumes P.M. Peak Hour Traffic Volumes N N 117 82 304 55 Е w W > v 78 ^ 172 69 ^ 302 > 355 > 295 61 32 v 15 v > e 35 231 268 718 98 S S Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,277	N-S Road:	1,117
E-W Road:	1,656	E-W Road:	1,367

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feel
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,277	5.52	0.19	0.16	0.12
East-West Road	7.0	5.4	3.8	1,656	5.52	0.64	0.49	0.35
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,117	5.52	0.17	0.14	0.10
East-West Road	7.0	5.4	3.8	1,367	5.52	0.53	0.41	0.29

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.2	5.1	3.4
50 Feet from Roadway Edge	5.0	4.9	3.3
100 Feet from Roadway Edge	4.9	4.8	3.1

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

#### **Roadway Data**

Intersection: Analysis Condition: Constitution Ave./Sepulveda Blvd. Future Plus Project Traffic Volumes (Regular Session)

No. of Average Speed A.M. P.M. Roadway Type Lanes North-South Roadway: Sepulveda Blvd. At Grade 4 20 20 At Grade 2 20 20 Constitution Ave. East-West Roadway: P.M. Peak Hour Traffic Volumes A.M. Peak Hour Traffic Volumes N N 70 513 154 1,357 E E W 2 424 ^ 6 122 ^ 1 5 2> 4 > 4 1 35 v 9 1,437 30 435 S S Highest Traffic Volumes (Vehicles per Hour) N-S Road: 2,072 N-S Road: 2,452 E-W Road: 541 E-W Road: 287 **Roadway CO Contributions and Concentrations** Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,072	5.52	0.80	0.62	0.43
East-West Road	2.7	2.2	1.7	287	5.52	0.04	0.03	0.03
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,452	5.52	0.95	0.73	0.51
East-West Road	2.7	2.2	1.7	541	5.52	0.08	0.07	0.05

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.2	5.4	3.5
50 Feet from Roadway Edge	5.1	5.2	3.4
100 Feet from Roadway Edge	4.9	5.0	3.2

## Project Number: 10328-07 Project Title: UCLA LRDP

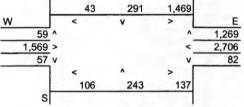
### **Background Information**

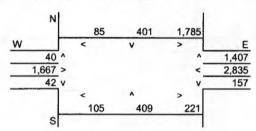
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

### **Roadway Data**

Intersection: Analysis Condition: Wilshire Blvd./San Vicente Blvd. Future Plus Project Traffic Volumes (Regular Session)

				Average Speed		
		Roadway Type	Lanes	A.M.	P.M.	
North-South Roadway:	San Vicente Blvd.	At Grade	4	10	10	
East-West Roadway:	Wilshire Blvd.	At Grade	8	10	10	
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes			
N	1	N				





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	3,374	N-S Road:	4,127
E-W Road:	7,232	E-W Road:	8,072

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	3,374	10.78	0.95	0.80	0.62
East-West Road	5.7	4.6	3.4	7,232	10.78	4.44	3.59	2.65
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	4,127	10.78	1.16	0.98	0.76
East-West Road	5.7	4.6	3.4	8,072	10.78	4.96	4.00	2.96

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	9.8	10.5	7.1
50 Feet from Roadway Edge	8.8	9.4	6.3
100 Feet from Roadway Edge	7.7	8.1	5.4

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

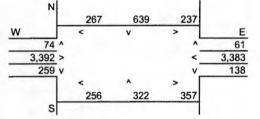
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

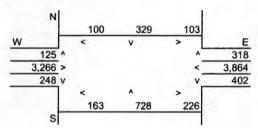
### **Roadway Data**

Intersection: Analysis Condition: Wilshire Blvd./Sepulveda Blvd.

Future Plus Project Traffic Volumes (Regular Session)

		No. of	Averag	e Speed
	Roadway Type	Lanes	A.M.	P.M.
Sepulveda Blvd.	At Grade	4	10	10
Wilshire Blvd.	At Grade	8	10	10
es	P.M. Peak Hour Traf	fic Volumes		
	Wilshire Blvd.	Sepulveda Blvd. At Grade Wilshire Blvd. At Grade	Roadway TypeLanesSepulveda Blvd.At Grade4Wilshire Blvd.At Grade8	Roadway TypeLanesA.M.Sepulveda Blvd.At Grade410Wilshire Blvd.At Grade810





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,971	N-S Road:	2,096
E-W Road:	7,631	E-W Road:	8,179

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A1	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conci	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,971	10.78	0.55	0.47	0.36
East-West Road	5.7	4.6	3.4	7,631	10.78	4.69	3.78	2.80
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,096	10.78	0.59	0.50	0.38
East-West Road	5.7	4.6	3.4	8,179	10.78	5.03	4.06	3.00

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	9.6	10.0	6.7
50 Feet from Roadway Edge	8.7	9.0	6.0
100 Feet from Roadway Edge	7.6	7.8	5.2

### Project Number: 10328-07 Project Title: UCLA LRDP

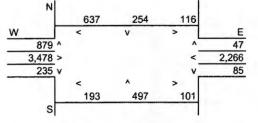
# **Background Information**

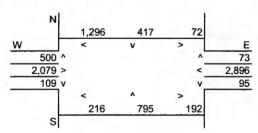
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

### **Roadway Data**

Intersection: Analysis Condition: Wilshire Blvd./Veteran Ave. Future Plus Project Traffic Volumes (Regular Session)

		No. of	Average Speed		
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Veteran Ave.	At Grade	2	15	10
East-West Roadway:	a start of a second start st	At Grade	8	15	10
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,430	N-S Road:	3,153
E-W Road:	7,688	E-W Road:	7,096

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

A1	A <sub>2</sub>	A <sub>3</sub>	В	С			
Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
2.7	2.2	1.7	2,430	7.30	0.48	0.39	0.30
5.7	4.6	3.4	7,688	7.30	3.20	2.58	1.91
2.7	2.2	1.7	3,153	10.78	0.92	0.75	0.58
5.7	4.6	3.4	7,096	10.78	4.36	3.52	2.60
	Referenc 25 Feet 2.7 5.7 2.7	Reference CO Conc.           25 Feet         50 Feet           2.7         2.2           5.7         4.6           2.7         2.2	Reference CO Concentrations           25 Feet         50 Feet         100 Feet           2.7         2.2         1.7           5.7         4.6         3.4           2.7         2.2         1.7	Reference CO Concentrations         Traffic           25 Feet         50 Feet         100 Feet         Volume           2.7         2.2         1.7         2,430           5.7         4.6         3.4         7,688           2.7         2.2         1.7         3,153	Reference CO Concentrations         Traffic         Emission           25 Feet         50 Feet         100 Feet         Volume         Factors <sup>1</sup> 2.7         2.2         1.7         2,430         7.30           5.7         4.6         3.4         7,688         7.30           2.7         2.2         1.7         3,153         10.78	Reference CO Concentrations         Traffic         Emission         Estimate           25 Feet         50 Feet         100 Feet         Volume         Factors <sup>1</sup> 25 Feet           2.7         2.2         1.7         2,430         7.30         0.48           5.7         4.6         3.4         7,688         7.30         3.20           2.7         2.2         1.7         3,153         10.78         0.92	Reference CO Concentrations         Traffic         Emission         Estimated CO Concentrations           25 Feet         50 Feet         100 Feet         Volume         Factors <sup>1</sup> 25 Feet         50 Feet           2.7         2.2         1.7         2,430         7.30         0.48         0.39           5.7         4.6         3.4         7,688         7.30         3.20         2.58           2.7         2.2         1.7         3,153         10.78         0.92         0.75

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	8.1	9.7	6.5
50 Feet from Roadway Edge	7.4	8.7	5.8
100 Feet from Roadway Edge	6.6	7.6	5.0

Project Number: 10328-07 Project Title: UCLA LRDP

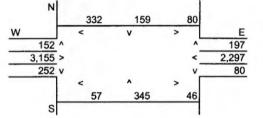
#### **Background Information**

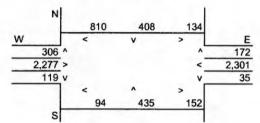
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

#### **Roadway Data**

Intersection: Analysis Condition: Wilshire Blvd./Gayley Ave. Future Plus Project Traffic Volumes (Regular Session)

			No. of	Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Gayley Ave.	At Grade	4	20	15
East-West Roadway:	Wilshire Blvd.	At Grade	8	20	15
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,265	N-S Road:	2,265
E-W Road:	6,245	E-W Road:	5,907

### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A1	A <sub>2</sub>	A <sub>3</sub>	в	C			
	Reference	ce CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,265	5.52	0.18	0.15	0.12
East-West Road	5.7	4.6	3.4	6,245	5.52	1.96	1.59	1.17
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,265	7.30	0.43	0.36	0.28
East-West Road	5.7	4.6	3.4	5,907	7.30	2.46	1.98	1.47

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.5	7.3	4.8
50 Feet from Roadway Edge	6.1	6.7	4.4
100 Feet from Roadway Edge	5.7	6.1	4.0

Project Number: 10328-07 Project Title: UCLA LRDP

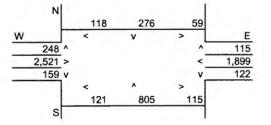
### **Background Information**

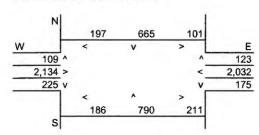
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

### **Roadway Data**

Intersection: Analysis Condition: Wilshire Blvd./Westwood Blvd. Future Plus Project Traffic Volumes (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Westwood Blvd.	At Grade	4	20	15
East-West Roadway:	Wilshire Blvd.	At Grade	8	20	15
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,621	N-S Road:	2,252
E-W Road:	5,066	E-W Road:	4,883

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,621	5.52	0.23	0.20	0.15
East-West Road	5.7	4.6	3.4	5,066	5.52	1.59	1.29	0.95
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,252	7.30	0.43	0.36	0.28
East-West Road	5.7	4.6	3.4	4,883	7.30	2.03	1.64	1.21

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.2	6.9	4.5
50 Feet from Roadway Edge	5.9	6.4	4.2
100 Feet from Roadway Edge	5.5	5.9	3.8

Project Number: 10328-07 Project Title: UCLA LRDP

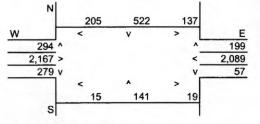
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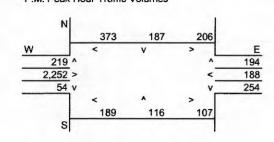
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

#### **Roadway Data**

Intersection: Analysis Condition: Wilshire Blvd./Glendon Ave. Future Plus Project Traffic Volumes (Regular Session)

			No. of	Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Glendon Ave.	At Grade	4	20	15
East-West Roadway:	Wilshire Blvd.	At Grade	8	20	15
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,498	N-S Road:	1,295
E-W Road:	5,049	E-W Road:	3,275

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,000<sup>1</sup>

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	8	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,498	5.52	0.21	0.18	0.14
East-West Road	5.7	4.6	3.4	5,049	5.52	1.59	1.28	0.95
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,295	7.30	0.25	0.21	0.16
East-West Road	5.7	4.6	3.4	3,275	7.30	1.36	1.10	0.81

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.2	6.0	4.1
50 Feet from Roadway Edge	5.9	5.7	3.8
100 Feet from Roadway Edge	5.5	5.4	3.6

<sup>2</sup> Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

39 Wilshire Blvd. & Glendon Ave.xls

Project Number: 10328-07 Project Title: UCLA LRDP

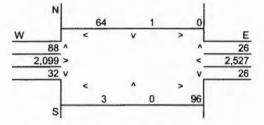
#### **Background Information**

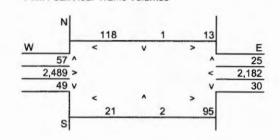
Nearest Air Monitoring Station measuring CO; Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

### **Roadway Data**

Intersection: Analysis Condition: Wilshire Blvd./Malcolm Ave. Future Plus Project Traffic Volumes (Regular Session)

				Average Spee	
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Malcolm Ave.	At Grade	2	20	15
East-West Roadway:	Wilshire Blvd.	At Grade	8	20	15
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	179	N-S Road:	216
E-W Road:	4,813	E-W Road:	4,916

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conce	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	179	5.52	0.03	0.02	0.02
East-West Road	5.7	4.6	3.4	4,813	5.52	1.51	1.22	0.90
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	216	7.30	0.04	0.03	0.03
East-West Road	5.7	4.6	3.4	4,916	7.30	2.05	1.65	1.22

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.9	6.5	4.3
50 Feet from Roadway Edge	5.6	6.1	4.0
100 Feet from Roadway Edge	5.3	5.6	3.7

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

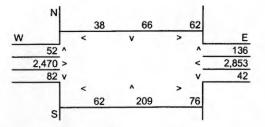
# **Roadway Data**

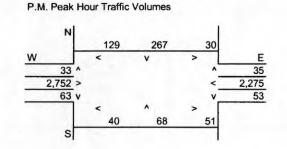
Intersection: Analysis Condition:

Wilshire Blvd./Westholme Ave. Future Plus Project Traffic Volumes (Regular Session)

				Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Westholme Ave.	At Grade	2	15	15
East-West Roadway:	Wilshire Blvd.	At Grade	8	15	15

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	563	N-S Road:	562
E-W Road:	5,639	E-W Road:	5,292

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference CO Concentrations			Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	563	7.30	0.11	0.09	0.07
East-West Road	5.7	4.6	3.4	5,639	7.30	2.35	1.89	1.40
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	562	7.30	0.11	0.09	0.07
East-West Road	5.7	4.6	3.4	5,292	7.30	2.20	1.78	1.31

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.9	6.7	4.5
50 Feet from Roadway Edge	6.4	6.3	4.2
100 Feet from Roadway Edge	5.9	5.8	3.8

Project Number: 10328-07 Project Title: UCLA LRDP

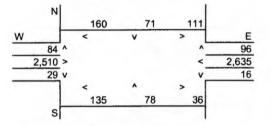
# **Background Information**

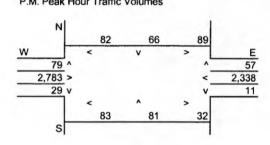
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

### **Roadway Data**

Intersection: Wilshire Blvd./Warner Ave. Analysis Condition: Future Plus Project Traffic Volumes (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Warner Ave.	At Grade	2	15	20
East-West Roadway:	Wilshire Blvd.	At Grade	8	15	20
A.M. Peak Hour Traffic Volu	mes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	600	N-S Road:	454
E-W Road:	5,553	E-W Road:	5,394

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Fee
2.7	2.2	1.7	600	7.30	0.12	0.10	0.07
5.7	4.6	3.4	5,553	7.30	2.31	1.86	1.38
2.7	2.2	1.7	454	5.52	0.07	0.06	0.04
5.7	4.6	3.4	5,394	5.52	1.70	1.37	1.01
	Reference 25 Feet 2.7 5.7 2.7	Reference CO Conc.           25 Feet         50 Feet           2.7         2.2           5.7         4.6           2.7         2.2	Reference         CO Concentrations           25 Feet         50 Feet         100 Feet           2.7         2.2         1.7           5.7         4.6         3.4           2.7         2.2         1.7	Reference CO Concentrations         Traffic           25 Feet         50 Feet         100 Feet         Volume           2.7         2.2         1.7         600           5.7         4.6         3.4         5,553           2.7         2.2         1.7         454	Reference CO Concentrations         Traffic         Emission           25 Feet         50 Feet         100 Feet         Volume         Factors <sup>1</sup> 2.7         2.2         1.7         600         7.30           5.7         4.6         3.4         5,553         7.30           2.7         2.2         1.7         454         5.52	Reference CO Concentrations         Traffic         Emission         Estimate           25 Feet         50 Feet         100 Feet         Volume         Factors1         25 Feet           2.7         2.2         1.7         600         7.30         0.12           5.7         4.6         3.4         5,553         7.30         2.31           2.7         2.2         1.7         454         5.52         0.07	Reference CO Concentrations         Traffic         Emission         Estimated CO Concentrations           25 Feet         50 Feet         100 Feet         Volume         Factors'         25 Feet         50 Feet           2.7         2.2         1.7         600         7.30         0.12         0.10           5.7         4.6         3.4         5,553         7.30         2.31         1.86           2.7         2.2         1.7         454         5.52         0.07         0.06

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.8	6.2	4.5
50 Feet from Roadway Edge	6.4	5.8	4.2
100 Feet from Roadway Edge	5.9	5.5	3.8

# Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO:	
Background 1-hour CO Concentration (ppm):	
Background 8-hour CO Concentration (ppm):	
Persistence Factor:	
Analysis Year:	

Northwest Coastal LA County 4.4 2.8 0.7 2010

### **Roadway Data**

Intersection: Analysis Condition: Wilshire Blvd./Beverly Glen Blvd. Future Plus Project Traffic Volumes (Regular Session)

							No. of	Average	Speed
					Roadway	Туре	Lanes	A.M.	P.M.
North-South	Roadway:	B	leviery Gler	n Blvd.	At Gra	de	4	15	15
East-West Ro		v	Vilshire Blv	d.	At Gra	de	8	15	15
A.M. Peak Ho	our Traffic	Volumes			P.M. Peak H	our Traff	ic Volumes		
N	116	758	96		N	81	764	80	
v –	<	v	>	E	W	<	v	>	
2,008 >			<	<u>66</u> 2,471	<u> </u>			<	2,2
378 v			v	125	367 v			v	1
	<	^	>			<	^	>	
	79	595	111			98	852	119	
s					S				

N-S Road:	2,046	N-S Road:	2,315
E-W Road:	5,161	E-W Road:	5,241

# **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference CO Concentrations			Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,046	7.30	0.39	0.33	0.25
East-West Road	5.7	4.6	3.4	5,161	7.30	2.15	1.73	1.28
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,315	7.30	0.44	0.37	0.29
East-West Road	5.7	4.6	3.4	5,241	7.30	2.18	1.76	1.30

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

P.M. A.M. Peak Hour Peak Hour 8-Hour 7.0 25 Feet from Roadway Edge 6.9 4.6 6.5 50 Feet from Roadway Edge 6.5 4.3 100 Feet from Roadway Edge 5.9 6.0 3.9

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

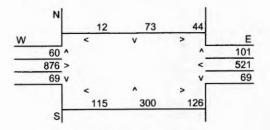
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

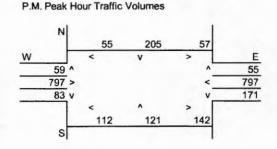
#### **Roadway Data**

Intersection: Ohio Ave./Sawtelle Blvd. Analysis Condition: Future Plus Project Traffic Volumes (Regular Session)

			No. of	Average Speed	
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Sawtelle Blvd.	At Grade	4	15	15
East-West Roadway:	Ohio Ave.	At Grade	2	15	15

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	752	N-S Road:	834
E-W Road:	1,737	E-W Road:	2,019

# **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	752	7.30	0.14	0.12	0.09
East-West Road	7.6	5.7	4.0	1,737	7.30	0.96	0.72	0.51
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	834	7.30	0.16	0.13	0.10
East-West Road	7.6	5.7	4.0	2,019	7.30	1.12	0.84	0.59

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.5	5.7	3.7
50 Feet from Roadway Edge	5.2	5.4	3.5
100 Feet from Roadway Edge	5.0	5.1	3.3

Project Number: 10328-07 Project Title: UCLA LRDP

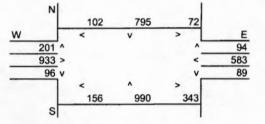
### **Background Information**

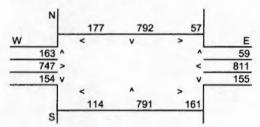
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

### **Roadway Data**

Intersection: Analysis Condition: Ohio Ave./Sepulveda Blvd. Future Plus Project Traffic Volumes (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Sepulveda Blvd.	At Grade	4	10	10
East-West Roadway:	Ohio Ave.	At Grade	2	10	10
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,469	N-S Road:	2,167
E-W Road:	2,114	E-W Road:	2,166

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,469	10.78	1.86	1.44	1.01
East-West Road	2.7	2.2	1.7	2,114	10.78	0.62	0.50	0.39
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,167	10.78	1.64	1.26	0.89
East-West Road	2.7	2.2	1.7	2,166	10.78	0.63	0.51	0.40

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.9	6.7	4.5
50 Feet from Roadway Edge	6.3	6.2	4.2
100 Feet from Roadway Edge	5.8	5.7	3.8

<sup>2</sup> Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

45 Ohio Ave. & Sepulveda Blvd.xls

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

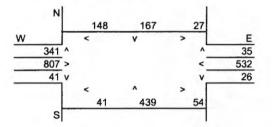
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

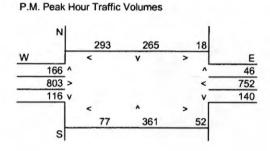
### **Roadway Data**

Intersection: Analysis Condition: Ohio Ave./ Veteran Ave. Future Plus Project Traffic Volumes (Regular Session)

			No. of	Average Speed	
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Veteran Ave.	At Grade	2	15	10
East-West Roadway:	Ohio Ave.	At Grade	2	15	10

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,157	N-S Road:	1,149
E-W Road:	1,910	E-W Road:	2,207

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,157	7.30	0.23	0.19	0.14
East-West Road	7.6	5.7	4.0	1,910	7.30	1.06	0.79	0.56
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,149	10.78	0.33	0.27	0.21
East-West Road	7.6	5.7	4.0	2,207	10.78	1.81	1.36	0.95

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.7	6.5	4.3
50 Feet from Roadway Edge	5.4	6.0	3.9
100 Feet from Roadway Edge	5.1	5.6	3.6

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

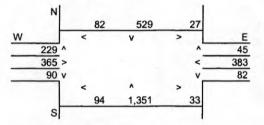
#### **Roadway Data**

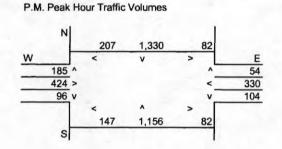
Intersection: Analysis Condition: Ohio Ave./ Westwood Blvd.

Future Plus Project Traffic Volumes (Regular Session)

			No. of Avera		e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Westwood Blvd.	At Grade	4	15	15
East-West Roadway:	Ohio Ave.	At Grade	2	15	15

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,263	N-S Road:	3,014
E-W Road:	1,243	E-W Road:	1,389

### Roadway CO Contributions and Concentrations

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference CO Concentrations		Traffic	Emission	Estimated CO Concentrations			
Roadway	25 Feet	50 Feet	100 Feet	Volume	Volume Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,263	7.30	1.16	0.89	0.63
East-West Road	2.7	2.2	1.7	1,243	7.30	0.24	0.20	0.15
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	3,014	7.30	1.54	1.19	0.84
East-West Road	2.7	2.2	1.7	1,389	7.30	0.27	0.22	0.17

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.8	6.2	4.1
50 Feet from Roadway Edge	5.5	5.8	3.8
100 Feet from Roadway Edge	5.2	5.4	3.5

#### Project Number: 10328-07 Project Title: UCLA LRDP

Project little: UCLA LRD

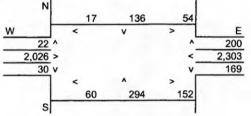
### **Background Information**

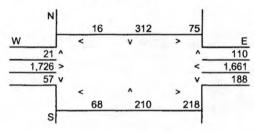
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

#### **Roadway Data**

Intersection: Analysis Condition: Santa Monica Blvd./Sawtelle Blvd. Future Plus Project Traffic Volumes (Regular Session)

			No. of	Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Sawtelle Blvd.	At Grade	4	15	15
East-West Roadway:	Santa Monica Blvd.	At Grade	8	15	15
A.M. Peak Hour Traffic Volu	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	841	N-S Road:	1,053
E-W Road:	4,904	E-W Road:	3,978

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	Reference CO Concentrations		Traffic	Emission	Estimated CO Concentrations		
Roadway	25 Feet	50 Feet	100 Feet	Volume Factors <sup>1</sup>		25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	841	7.30	0.16	0.14	0.10
East-West Road	5.7	4.6	3.4	4,904	7.30	2.04	1.65	1.22
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	1,053	7.30	0.20	0.17	0.13
East-West Road	5.7	4.6	3.4	3,978	7.30	1.66	1.34	0.99

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.6	6.3	4.3
50 Feet from Roadway Edge	6.2	5.9	4.0
100 Feet from Roadway Edge	5.7	5.5	3.7

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

### **Roadway Data**

Intersection: Analysis Condition: Santa Monica Blvd./Sepulveda Blvd. Future Plus Project Traffic Volumes (Regular Session)

No. of Average Speed A.M. P.M. Roadway Type Lanes North-South Roadway: Sepulveda Blvd. At Grade 2 10 10 East-West Roadway: Santa Monica Blvd. At Grade 6 10 10 P.M. Peak Hour Traffic Volumes A.M. Peak Hour Traffic Volumes N N 161 130 742 161 1,459 158 W E W > v E 127 ^ 116 ^ 82 104 2,804 > 1,957 2,678 > 1.823 329 v 93 221 v 116 < > > 179 1,179 220 137 936 261 S S

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,742	N-S Road:	3,130
E-W Road:	5,515	E-W Road:	5,147

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	2,742	10.78	0.80	0.65	0.50
East-West Road	6.1	4.9	3.5	5,515	10.78	3.63	2.91	2.08
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	3,130	10.78	0.91	0.74	0.57
East-West Road	6.1	4.9	3.5	5,147	10.78	3.38	2.72	1.94

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	8.8	8.7	5.9
50 Feet from Roadway Edge	8.0	7.9	5.3
100 Feet from Roadway Edge	7.0	6.9	4.6

### Project Number: 10328-07 Project Title: UCLA LRDP

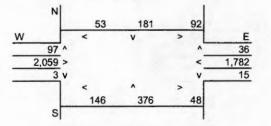
### **Background Information**

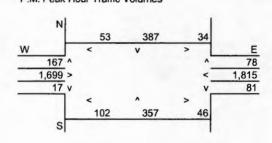
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

#### **Roadway Data**

Intersection: Analysis Condition: Santa Monica Blvd./Veteran Ave. Future Plus Project Traffic Volumes (Regular Session)

			No. of	Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Veteran Ave.	At Grade	2	15	10
East-West Roadway:	Santa Monica Blvd.	At Grade	6	15	10
A.M. Peak Hour Traffic Vol	umes	P.M. Peak Hour Traf	fic Volumes		





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	835	N-S Road:	1,076
E-W Road:	4,140	E-W Road:	3,853

#### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors'	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	835	7.30	0.16	0.13	0.10
East-West Road	6.1	4.9	3.5	4,140	7.30	1.84	1.48	1.06
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	1,076	10.78	0.31	0.26	0.20
East-West Road	6.1	4.9	3.5	3,853	10.78	2.53	2.04	1.45

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.4	7.2	4.8
50 Feet from Roadway Edge	6.0	6.7	4.4
100 Feet from Roadway Edge	5.6	6.1	4.0

Project Number: 10328-07 Project Title: UCLA LRDP

### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

#### **Roadway Data**

Intersection: Analysis Condition: Santa Monica Blvd./Westwood Blvd. Future Plus Project Traffic Volumes (Regular Session)

							No. of	Average	Speed
					Roadwa	y Type	Lanes	A.M.	P.M
North-South	Roadway:	V	Vestwood B	lvd.	At G	rade	4	15	15
East-West R			anta Monic	a Blvd.	At G	rade	6	15	15
A.M. Peak H	our Traffic	Volumes			P.M. Peak	Hour Traffi	c Volumes		
N	76	589	100		N	131	1,316	108	
v	<	v	>	E	w	<	v	>	
194 ^			^	165	177			^_	
1,505 >			<	1,569	1,483			<_	1,
65 v		^	v	148	60		^	v r	
	<		>			<		>	
	66	1,001	44			53	1,039	90	
S					S			1	

N-S Road:	2,125	N-S Road:	2,976
E-W Road:	3,531	E-W Road:	3,621

### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,125	7.30	0.40	0.34	0.26
East-West Road	6.1	4.9	3.5	3,531	7.30	1.57	1.26	0.90
P.M. Peak Traffic Hour								
North-South Road	2.6	2.2	1.7	2,976	7.30	0.56	0.48	0.37
East-West Road	6.1	4.9	3.5	3,621	7.30	1.61	1.30	0.93

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.4	6.6	4.3
50 Feet from Roadway Edge	6.0	6.2	4.0
100 Feet from Roadway Edge	5.6	5.7	3.7

### Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year:

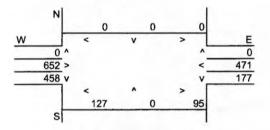
Northwest Coastal LA County 4.4 2.8 0.7 2010

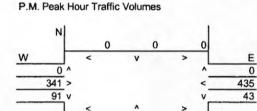
#### **Roadway Data**

Intersection:	Roscomare Rd./Mulholland Dr.
Analysis Condition:	Future Plus Project Traffic Volumes (Regular Session)

		140. 01	Average	e opeeu	
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Roscomare Rd.	At Grade	2	10	20
East-West Roadway:	Mulholland Dr.	At Grade	2	10	20

A.M. Peak Hour Traffic Volumes





0

148

275

S

No of

Averane Sneed

Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	857	N-S Road:	557
E-W Road:	1,708	E-W Road:	1,142

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	857	10.78	0.25	0.20	0.16
East-West Road	7.6	5.7	4.0	1,708	10.78	1.40	1.05	0.74
P.M. Peak Traffic Hour								
North-South Road	2.7	2.2	1.7	557	5.52	0.08	0.07	0.05
East-West Road	7.6	5.7	4.0	1,142	5.52	0.48	0.36	0.25

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

#### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.0	5.0	4.0
50 Feet from Roadway Edge	5.7	4.8	3.7
100 Feet from Roadway Edge	5.3	4.7	3.4

### Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

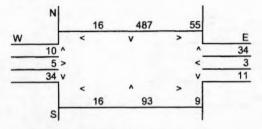
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

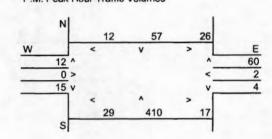
### **Roadway Data**

Intersection: Analysis Condition: Roscomare Rd./Stradella Rd. - Linda Flora Dr. Future Plus Project Traffic Volumes (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Roscomare Rd.	At Grade	2	20	20
East-West Roadway:	Stradella Rd Linda Flora Dr.	At Grade	2	20	20
A M Beak Hour Traffic Volu	imes	P M Peak Hour Traf	fic Volumes		

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	695	N-S Road:	577
E-W Road:	117	E-W Road:	109

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	695	5.52	0.29	0.22	0.15
East-West Road	2.7	2.2	1.7	117	5.52	0.02	0.01	0.01
P.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	577	5.52	0.24	0.18	0.13
East-West Road	2.7	2.2	1.7	109	5.52	0.02	0.01	0.01

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M. Peak Hour	P.M. Peak Hour	8-Hour
25 Feet from Roadway Edge	4.7	4.7	3.0
50 Feet from Roadway Edge	4.6	4.6	3.0
100 Feet from Roadway Edge	4.6	4.5	2.9

Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

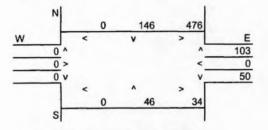
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

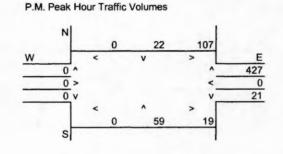
#### **Roadway Data**

Intersection: Chalon Rd./Bellagio Rd. Analysis Condition: Future Plus Project Traffic Volumes (Regular Session)

			No. of	Average Spee	
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Chalon Rd.	At Grade	2	20	20
East-West Roadway:	Bellagio Rd.	At Grade	2	20	20

A.M. Peak Hour Traffic Volumes





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	771	N-S Road:	615
E-W Road:	663	E-W Road:	574

#### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	C			
	Reference	e CO Conc	entrations	Traffic	Emission	Estimate	d CO Conce	entrations
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	771	5.52	0.32	0.24	0.17
East-West Road	2.7	2.2	1.7	663	5.52	0.10	0.08	0.06
P.M. Peak Traffic Hour								
North-South Road	7.6	5.7	4.0	615	5.52	0.26	0.19	0.14
East-West Road	2.7	2.2	1.7	574	5.52	0.09	0.07	0.05

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	4.8	4.7	3.1
50 Feet from Roadway Edge	4.7	4.7	3.0
100 Feet from Roadway Edge	4.6	4.6	3.0

Project Number: 10328-07 Project Title: UCLA LRDP

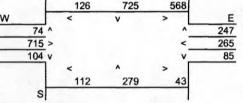
### **Background Information**

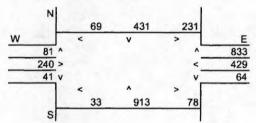
Nearest Air Monitoring Station measuring CO: Background 1-hour CO Concentration (ppm): Background 8-hour CO Concentration (ppm): Persistence Factor: Analysis Year: Northwest Coastal LA County 4.4 2.8 0.7 2010

#### **Roadway Data**

Intersection: Analysis Condition: Beverly Glen Blvd./Mulholland Dr. Future Plus Project Traffic Volumes (Regular Session)

			No. of	Averag	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Beverly Glen Blvd.	At Grade	4	10	10
East-West Roadway:	Mulholland Dr.	At Grade	2	10	10
A.M. Peak Hour Traffic Vol	umes	P.M. Peak Hour Traf	fic Volumes		
N	1	N			
126	725 568	69	431	231	





Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	2,019	N-S Road:	2,558
E-W Road:	1,923	E-W Road:	1,875

### **Roadway CO Contributions and Concentrations**

Emissions =  $(A \times B \times C) / 100,000^{1}$ 

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	В	С			
	Reference CO Concentrations		Traffic	Emission	Estimate	d CO Conce	entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,019	10.78	1.52	1.18	0.83
East-West Road	2.7	2.2	1.7	1,923	10.78	0.56	0.46	0.35
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	2,558	10.78	1.93	1.49	1.05
East-West Road	2.7	2.2	1.7	1,875	10.78	0.55	0.44	0.34

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup>

8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	6.5	6.9	4.5
50 Feet from Roadway Edge	6.0	6.3	4.2
100 Feet from Roadway Edge	5.6	5.8	3.8

### Project Number: 10328-07 Project Title: UCLA LRDP

#### **Background Information**

Nearest Air Monitoring Station measuring CO:	
Background 1-hour CO Concentration (ppm):	
Background 8-hour CO Concentration (ppm):	
Persistence Factor:	
Analysis Year:	

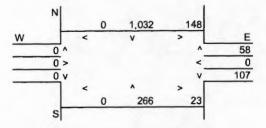
Northwest Coastal LA County 4.4 2.8 0.7 2010

#### **Roadway Data**

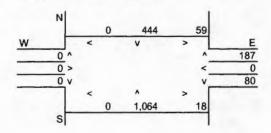
Intersection: Analysis Condition: Beverly Glen Blvd./Greendale Dr. Future Plus Project Traffic Volumes (Regular Session)

			No. of	Average	e Speed
		Roadway Type	Lanes	A.M.	P.M.
North-South Roadway:	Beverly Glen Blvd.	At Grade	4	15	15
East-West Roadway:	Greendale Dr.	At Grade	2	15	15

A.M. Peak Hour Traffic Volumes



P.M. Peak Hour Traffic Volumes



Highest Traffic Volumes (Vehicles per Hour)

N-S Road:	1,504	N-S Road:	1,754	
E-W Road:	336	E-W Road:	344	

### **Roadway CO Contributions and Concentrations**

Emissions = (A x B x C) / 100,0001

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	в	С			
	Reference CO Concentrations		Traffic E	Emission	Estimated CO Concentrations		entrations	
Roadway	25 Feet	50 Feet	100 Feet	Volume	Factors <sup>1</sup>	25 Feet	50 Feet	100 Feet
A.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,504	7.30	0.77	0.59	0.42
East-West Road	2.7	2.2	1.7	336	7.30	0.07	0.05	0.04
P.M. Peak Traffic Hour								
North-South Road	7.0	5.4	3.8	1,754	7.30	0.90	0.69	0.49
East-West Road	2.7	2.2	1.7	344	7.30	0.07	0.06	0.04

<sup>1</sup> Methodology and emission factors from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

### **Total Roadway CO Concentrations**

Peak Hour Emissions = North-South Concentration + East-West Concentration + Background 1-hour Concentration<sup>2</sup> 8-Hour Emissions = ((Highest Peak Hour Concentration - Background 1-hour Concentration) x Persistence Factor) + Background 8-hour Concentration<sup>2</sup>

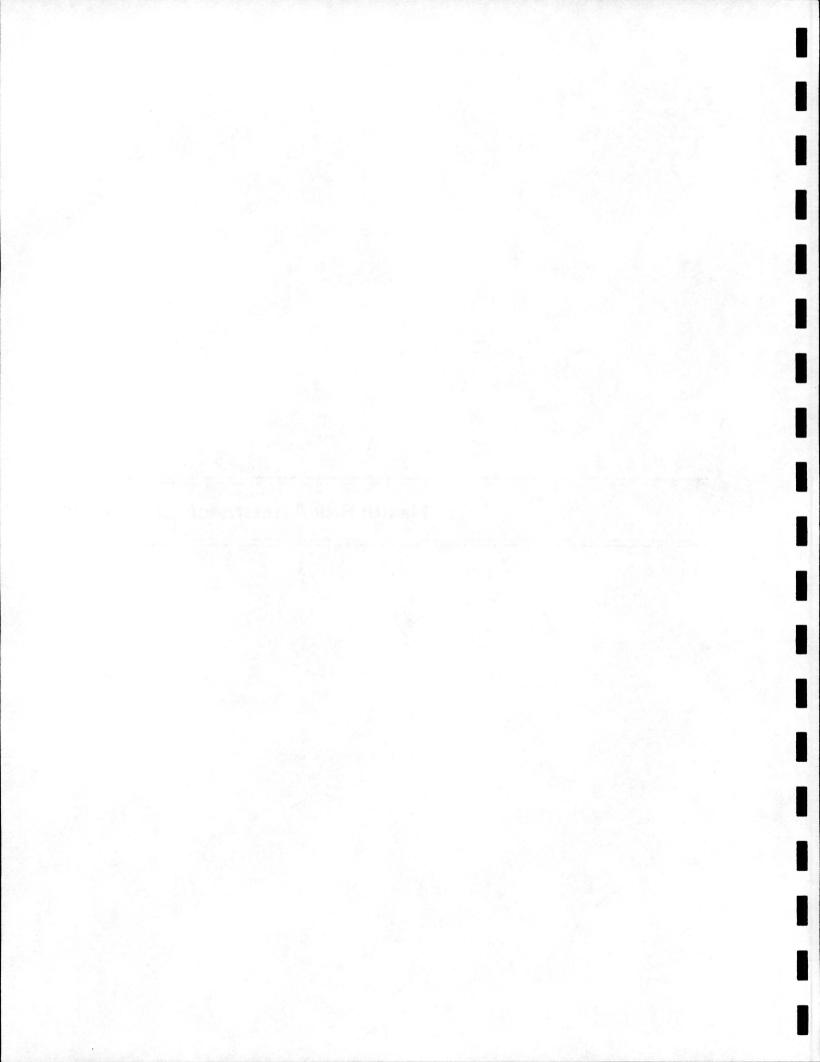
	A.M.	P.M.	
	Peak Hour	Peak Hour	8-Hour
25 Feet from Roadway Edge	5.2	5.4	3.5
50 Feet from Roadway Edge	5.0	5.1	3.3
100 Feet from Roadway Edge	4.9	4.9	3.2

<sup>2</sup> Methodology from Bay Area Air Quality Management District BAAQMD CEQA Guidelines (1996).

58 Beverly Glen Blvd. & Greendale Dr.xls

**EIP Associates** 

Health Risk Assessment (URS 2002)



## HEALTH RISK ASSESSMENT

# **REVISED DRAFT**

# HEALTH RISK ASSESSMENT IN SUPPORT OF THE LONG RANGE DEVELOPMENT PLAN UPDATE FOR THE UNIVERSITY OF CALIFORNIA, LOS ANGELES

### Prepared for

EIP Associates 12301 Wilshire Boulevard, Suite 430 Los Angeles, CA 90025

and

University of California, Los Angeles 405 Hilgard Avenue Box 951361 Los Angeles, CA 90095-1361

July 11, 2002



2020 East First Street, Suite 400 Santa Ana, California 92705

## UCLA LRDP Update HRA

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# UCLA LRDP Update HRA

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## List of Acronyms

ACE	Assessment of Chemical Exposure
ACGIH	American Conference of Governmental Industrial Hygienists
bhp	brake horsepower
BPIP	Building Profile Input Program
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
Cogen	Cogeneration
DEM	Digital Elevation Model
EPA	U.S. Environmental Protection Agency
ft <sup>2</sup>	square feet
gal/hr	gallons per hour
HI	hazard index
hr/yr	hours per year
HRA	Health Risk Assessment
ICEs	internal combustion engines
ISCST3	Industrial Source Complex Short Term
lab	laboratory
lb/hr	pounds per hour
lb/yr	pounds per year
LMS	linearized multi-stage
LRDP	Long Range Development Plan
$\mu g/m^3$	micrograms per cubic meter
MEI	maximally exposed individual
mg/kg-d	milligrams per kilogram per day
MSDS	Material Safety Data Sheet
MMBTU/hr	million British thermal units per hour
MMcf	million cubic feet
OEHHA	Office of Environmental Health Hazard Assessment
OSHA	Occupational Safety and Health Administration
PAH	polycyclic aromatic hydrocarbon
PEL	Permissible Exposure Limit
PM	particulate matter
PRG	Preliminary Remediation Goal
REL	reference exposure level
SCAQMD	South Coast Air Quality Management District
scores	prioritization scores
spec	specification
TLV	Threshold Limit Value
UCB	University of California, Berkeley
UCLA	University of California, Los Angeles
URF	unit risk factor
UTM	Universal Transverse Mercator
ZOA	zone of analysis

## EXECUTIVE SUMMARY

URS Corporation (URS) was contracted by EIP Associates (EIP) to prepare a Health Risk Assessment (HRA) in support of the preparation of the Long Range Development Plan (LRDP) for the University of California, Los Angeles (UCLA). The LRDP addresses the anticipated growth in student enrollment at the campus through approximately 2010. The HRA evaluates the potential health risks posed by current and projected campus-wide operations through 2010 at off- and on-campus locations. Results are presented for two scenarios:

- 1. Existing Scenario; and
- 2. LRDP Scenario.

The results presented for the Existing Scenario represent the potential health risks posed by campus-wide operations (i.e., existing facilities as well as facilities under construction, approved with construction pending, and/or analyzed in a certified environmental impact report) in academic year 2001-02. The results presented for the LRDP Scenario represent the potential health risks posed by campus-wide operations under the Existing Scenario combined with potential new development considered in the 2002 LRDP through academic year 2010-11.

### **Description of the UCLA Campus and Operations**

The campus is located in Los Angeles, California, north of Westwood Village. The campus provides numerous teaching and research facilities to faculty and students in the University of California system. The campus conducts routine operations that generate emissions regulated by the State of California. The sources of emissions include cogeneration gas turbines, gasoline dispensing operations, boilers, standby generators driven by internal combustion engines, painting operations, and laboratory chemical usage. The HRA evaluated the toxic emissions associated with these sources based on fuel, material, and chemical usage considered representative of the current and subsequent year-to-year routine campus-wide operations through 2010.

### **HRA Procedures**

The HRA was prepared in accordance with the most recent California Air Pollution Control Officers Association (CAPCOA) Risk Assessment Guidelines (CAPCOA, 1993). In addition, the HRA incorporated the most recent toxicological values published by the California Environmental Protection Agency Office of Environmental Health Hazard Assessment (OEHHA). Use of the CAPCOA guidelines, which have been adopted by the South Coast Air Quality Management District, results in a worst-case analysis of risk. For example, the theoretical incremental cancer risk estimated in this HRA is based on an individual being continuously exposed to emissions from routine campus-wide operations for 24 hours per day, 365 days per year, for 70 years at the same location. Actual risks are likely to be substantially lower than those estimated using the CAPCOA guidelines and could approach zero.

### Summary of HRA Results from the Existing Scenario

Results of the cancer health effects assessment indicate that all of the cancer risks are less than 10 in one million  $(1.0 \times 10^{-5})$ . Cancer risks less than 10 in one million are considered acceptable and do not require public notification in accordance with state and local guidelines. The theoretical incremental cancer risk as a result of a lifetime exposure to emissions from the routine campus-wide operation of all sources in the Existing Scenario was estimated to be 6.3 in one million  $(6.3 \times 10^{-6})$  at the off-campus maximally exposed individual (MEI) and 7.3 in one million  $(7.3 \times 10^{-6})$  at the on-campus MEI. The off-campus MEI was located east of the campus along Hilgard Avenue. The on-campus MEI was located at the day care center near Franz Hall.

The primary source contribution to the estimated cancer risk at the off-campus MEI was the standby generator at the Cogeneration (Cogen) Plant with approximately 27% of the risk. Other primary source contributions at this location included the gas turbines at the Cogen Plant with approximately 11% of the risk. The primary source contribution to the estimated cancer risk at the on-campus MEI was the standby generator at the Cogen Plant with approximately 34% of the risk. Other primary source contributions at this location included the gas turbines at the Cogen Plant with approximately 34% of the risk. Other primary source contributions at this location included the gas turbines at the Cogen Plant with approximately 34% of the risk.

The primary chemical contribution to the estimated cancer risk at the off-campus MEI was diesel exhaust with approximately 61% of the risk. Other primary chemical contributions included polycyclic aromatic hydrocarbons (PAH) and chloroform with approximately 10% and 8% of the risks, respectively. The primary chemical contribution to the estimated cancer risk at the on-campus MEI was diesel exhaust with approximately 61% of the risk. Other primary chemical contributions included PAH and chloroform with approximately 61% of the risk. Other primary chemical contributions included PAH and chloroform with approximately 12% and 7% of the risks, respectively.

Results of the chronic noncancer health effects assessment indicate that all of the hazard index (HI) values for each organ system are less than 1.0. Chronic HI values less than 1.0 indicate that noncancer effects from chronic exposure to emissions from routine campus-wide operations are unlikely. The maximum chronic HI for an organ system was 0.11 at the off-campus MEI and 0.12 at the on-campus MEI. The off-campus MEI was located east of the campus along Hilgard Avenue. The on-campus MEI was located at the day care center near Franz Hall.

Results of the acute noncancer health effects assessment indicate that all of the HI values for each organ system are less than 1.0. Acute HI values less than 1.0 indicate that noncancer effects from acute exposure to emissions from routine campus-wide operations are unlikely. The maximum acute HI for an organ system was 0.15 at the off-campus MEI and 0.12 at the on-campus MEI. The off-campus MEI was located approximately 200 meters west of the campus boundary. The on-campus MEI was located at the UCLA Medical Center.

The cancer, chronic, and acute noncancer results for the off- and on-campus MEIs in the Existing Scenario are presented in Table 1. The locations of the cancer, chronic, and acute noncancer off- and on-campus MEIs in the Existing Scenario are presented in Figure 1.

### Summary of HRA Results from the LRDP Scenario

Results of the cancer health effects assessment indicate that all of the cancer risks are less than 10 in one million  $(1.0 \times 10^{-5})$ . The theoretical incremental cancer risk as a result of a lifetime exposure to emissions from the routine campus-wide operation of all sources in the LRDP Scenario was estimated to be 6.4 in one million  $(6.4 \times 10^{-6})$  at the off-campus MEI and 7.5 in one million  $(7.5 \times 10^{-6})$  at the on-campus MEI. The off-campus MEI was located east of the campus along Hilgard Avenue. The on-campus MEI was located at the day care center near Franz Hall.

The primary source contribution to the estimated cancer risk at the off-campus MEI was the standby generator at the Cogeneration (Cogen) Plant with approximately 26% of the risk. Other primary source contributions at this location included the gas turbines at the Cogen Plant and the four standby generators at the UCLA Medical Center with approximately 11% and 7% of the risks, respectively. The primary source contribution to the estimated cancer risk at the on-campus MEI was the standby generator at the Cogen Plant with approximately 34% of the risk. Other primary source contributions at this location included the gas turbines at the Cogen Plant with approximately 34% of the risk. Other primary source contributions at this location included the gas turbines at the Cogen Plant with approximately 34% of the risk.

The primary chemical contribution to the estimated cancer risk at the off-campus MEI was diesel exhaust with approximately 63% of the risk. Other primary chemical contributions included polycyclic aromatic hydrocarbons (PAH) and chloroform with approximately 10% and 8% of the risks, respectively. The primary chemical contribution to the estimated cancer risk at the on-campus MEI was diesel exhaust with approximately 62% of the risk. Other primary chemical contributions included PAH and chloroform with approximately 12% and 7% of the risks, respectively.

The maximum chronic HI for an organ system was 0.11 at the off-campus MEI and 0.12 at the on-campus MEI. The off-campus MEI was located east of the campus along Hilgard Avenue. The on-campus MEI was located at the day care center near Franz Hall.

The maximum acute HI for an organ system was 0.15 at the off-campus MEI and 0.12 at the on-campus MEI. The off-campus MEI was located approximately 200 meters west of the campus boundary. The on-campus MEI was located at the UCLA Medical Center.

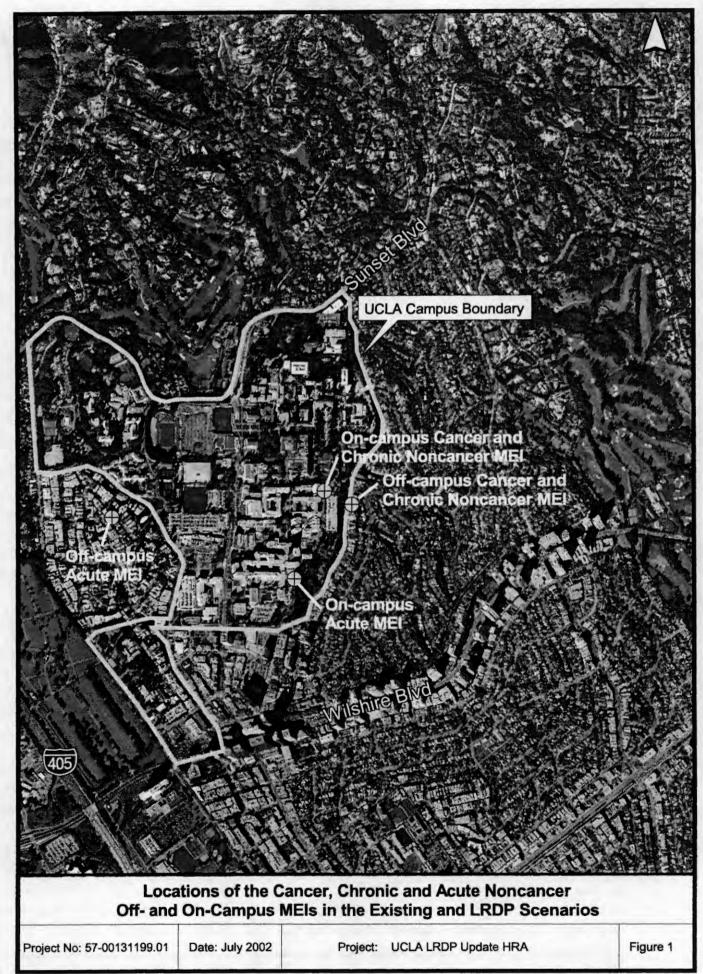
The cancer, chronic, and acute noncancer results for the off- and on-campus MEIs in the LRDP Scenario are presented in Table 2. The locations of the cancer, chronic, and acute noncancer off- and on-campus MEIs in the LRDP Scenario are presented in Figure 1.

### Table 1. Summary of HRA Results for the Off- and On-campus MEIs in the Existing Scenario

	Universal Transverse Mercator Coordinates			
	Result	East (m)	North (m)	Location
Off-campus ME				
Cancer Risk	6.3E-06	367313	3770554	East of campus along Hilgard Avenue
Chronic HI	0.11	367313	3770554	East of campus along Hilgard Avenue
Acute HI	0.15	366177	3770497	200 meters west of campus boundary
On-campus ME				
Cancer Risk	7.3E-06	367182	3770618	Daycare at Franz Hall
Chronic HI	0.12	367182	3770618	Daycare at Franz Hall
Acute HI	0.12	367040	3770202	UCLA Medical Center

### Table 2. Summary of HRA Results for the Off- and On-campus MEIs in the LRDP Scenario

		UTM Co	ordinates	
	Result	East (m)	North (m)	Location
Off-campus ME	1			
Cancer Risk	6.4E-06	367313	3770554	East of campus along Hilgard Avenue
Chronic HI	0.11	367313	3770554	East of campus along Hilgard Avenue
Acute HI	0.15	366177	3770497	200 meters west of campus boundary
On-campus ME				
Cancer Risk	7.5E-06	367182	3770618	Daycare at Franz Hall
Chronic HI	0.12	367182	3770618	Daycare at Franz Hall
Acute HI	0.12	367040	3770202	UCLA Medical Center



## 1.0 INTRODUCTION

URS Corporation (URS) was contracted by EIP Associates (EIP) to prepare a Health Risk Assessment (HRA) in support of the preparation of the Long Range Development Plan (LRDP) for the University of California, Los Angeles (UCLA). The LRDP addresses the anticipated growth in student enrollment at the campus through approximately 2010. The HRA evaluates the potential health risks posed by current and projected campus-wide operations through 2010 at off- and on-campus locations. Results are presented for two scenarios:

- Existing Scenario; and
- LRDP Scenario.

The results presented for the Existing Scenario represent the potential health risks posed by campus-wide operations (i.e., existing facilities as well as facilities under construction, approved with construction pending, and/or analyzed in a certified environmental impact report) in academic year 2001-02. The results presented for the LRDP Scenario represent the potential health risks posed by campus-wide operations under the Existing Scenario combined with potential new development considered in the 2002 LRDP through academic year 2010-11.

UCLA is one of nine campuses that comprise the University of California system. The campus is located in Los Angeles, California, north of Westwood Village. It is bound by residential communities on the west by Gayley Avenue, on the north by Sunset Avenue, and on the east by Hilgard Avenue. It is bound by the Westwood merchant district on the south by Le Conte Avenue. The main campus is located on 419 acres with 163 buildings providing facilities for approximately 23,000 employees and 37,000 students. The campus provides a notable economic, employment, and cultural benefit to its surrounding community. A map of the UCLA campus is provided in Figure 1-1.

The campus conducts routine operations that generate emissions regulated by the State of California. The sources of emissions include cogeneration gas turbines, gasoline dispensing operations, boilers, standby generators driven by internal combustion engines (ICEs), painting operations, and laboratory chemical usage. The HRA evaluated the toxic emissions associated with these sources based on fuel, material, and chemical usage considered representative of the current and subsequent year-to-year routine campus-wide operations through 2010.

The HRA was prepared in accordance with the most recent California Air Pollution Control Officers Association (CAPCOA) Risk Assessment Guidelines (CAPCOA, 1993). In addition, the HRA incorporated the most recent toxicological values published by the California Environmental Protection Agency Office of Environmental Health Hazard Assessment (OEHHA). Use of the CAPCOA guidelines, which have been adopted by the South Coast Air Quality Management District (SCAQMD), results in a worst-case analysis of risk. For example, the theoretical incremental cancer risk estimated in this HRA is based on an individual being continuously exposed to emissions from routine campus-wide operations for 24 hours per day, 365 days per year, for 70 years at the same location. Actual risks are likely to be substantially lower than those estimated using the CAPCOA guidelines and could approach zero.

## 1.1 FACILITY ID

The UCLA SCAQMD Facility ID number is 018452.

### 1.2 IDENTIFYING INFORMATION

Identifying information for the facility is provided below:

- Facility Address: University of California, Los Angeles 405 Hilgard Avenue Box 951361 Los Angeles, CA 90095-1361
- Primary Contact: Ms. Tova Lelah Campus Capital Planning 1060 Veteran Avenue Box 951365 Los Angeles, CA 90095-1365

### 1.3 DOCUMENT ORGANIZATION

The remainder of this document is organized as follows:

- Section 2.0 Hazard Identification;
- Section 3.0 Exposure Assessment;
- Section 4.0 Dose-response Assessment;
- Section 5.0 Risk Characterization; and
- Section 6.0 References.

Technical support documentation is included in the appendices.

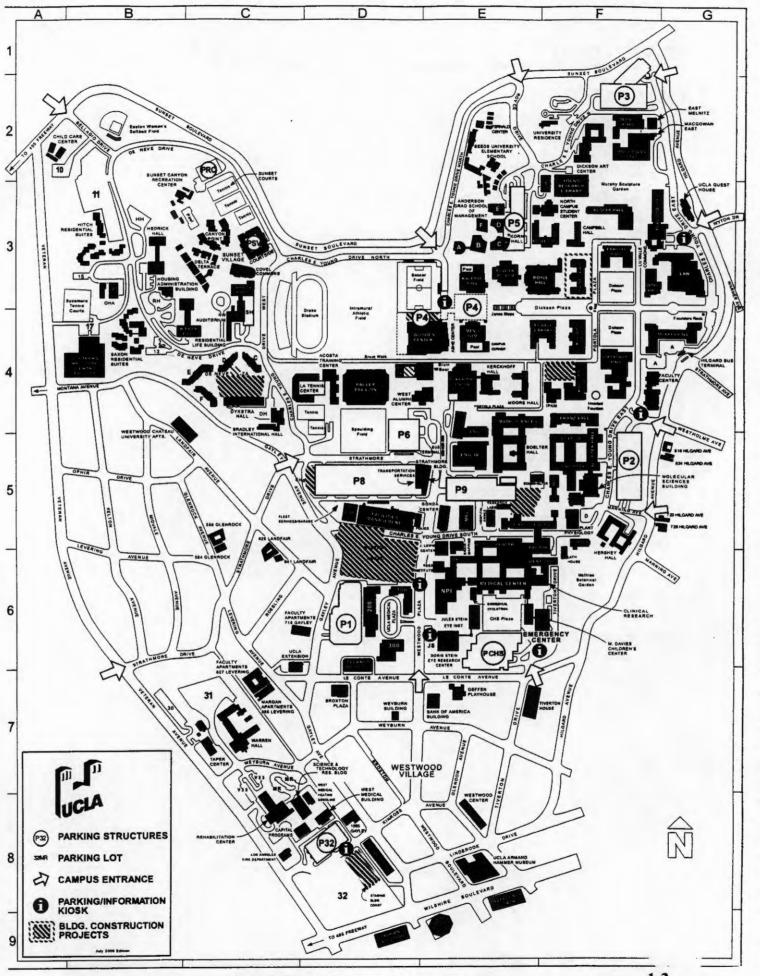


Figure 1-1. Map of the UCLA Campus

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## 2.0 HAZARD IDENTIFICATION

Hazard identification is the step that identifies whether a substance is a potential human carcinogen or is capable of causing adverse noncancer health effects. For AB 2588 HRAs, toxicity factors published by the OEHHA, as well as the CAPCOA AB 2588 guidelines specify which substances from the AB 2588 Inventory Guideline Regulations shall be considered for inclusion.

### 2.1 EMISSIONS QUANTIFICATION

The analysis evaluated emissions from various existing sources associated with routine, campus-wide operations. In addition, potential new sources were evaluated to account for growth over the next 10 years. The following emission source-types were included in the analysis:

- Cogeneration gas turbines;
- Gasoline dispensing operations;
- Boilers;
- ICEs;
- Painting operations; and
- Laboratory chemical usage.

The existing sources were identified based on the list of SCAQMD air permits, the annual air emission report, and previous studies provided by UCLA. The potential new sources were identified based on projected new laboratory (lab) and building construction provided by UCLA. The emissions from most of the existing sources were estimated based on fuel and material usage reported in the 2000/2001 annual air emission report submitted to the SCAQMD. The lab chemical usage was estimated based on studies from other similar labs. The emissions from the potential new sources were estimated based on assumptions on fuel and chemical usage representative of similar campus-wide operations. The fuel, material, and chemical usage used to estimate the emissions for this HRA are considered representative of the current and subsequent year-to-year routine, campus-wide operations.

A standard source prioritization score was used to identify the sources considered to be key contributors to the potential health risks. Those sources identified as key contributors were included in the HRA and the remaining sources were not included in the HRA. A detailed discussion of the source prioritization scores and results is presented in Section 2.2. A summary of the emissions evaluated in the source prioritization and HRA for the Existing and LRDP Scenarios is presented in Table 2-1. A summary of the sources evaluated in the source prioritization and HRA for the Existing and HRA for the Existing and LRDP Scenarios is presented in Table 2-1. A summary of the sources evaluated in the source prioritization and HRA for the Existing and LRDP Scenarios is presented in Table 2-2. The emissions calculation methodology for each source type is discussed below.

### 2.1.1 Cogeneration Gas Turbines

In the Existing and LRDP Scenarios, two permitted gas turbines located at the Cogeneration (Cogen) Plant provide the majority of the electricity for campus-wide operations. Each turbine is permitted to fire

## UCLA LRDP Update HRA

on blended natural and landfill gas with each having a rated capacity of 234 million British thermal units (MMBTU/hr). The emissions were estimated based on emission factors and the reported natural and landfill gas usage. The emission factors for natural gas were obtained from the U.S. Environmental Protection Agency's (EPA's) AP-42, Table 3.1-3, April 2000. The emission factors for landfill gas were obtained from source tests, metals analysis, and assumptions for natural gas. The annual emissions were estimated based on the annual natural and landfill gas usage of 2,648 and 774.2 million cubic feet (MMcf), respectively. The hourly emissions were estimated based on assuming the turbines operated continuously throughout the year and dividing the annual usage by 8,760. The usage was divided equally between the two turbines. A detailed breakdown of the turbine emissions by pollutant for each Scenario is presented in Appendix A. There were no substantial changes in turbine emissions between the Existing and LRDP Scenarios.

### 2.1.2 Gasoline Dispensing

In the Existing and LRDP Scenarios, one permitted unleaded gasoline dispensing facility located near the Campus Services Building I supplies fuel to the campus fleet vehicles. The facility contains eight dispensing nozzles equipped with Phase II vapor recovery systems and two 10,000-gallon underground storage tanks. The emissions were estimated based on emission factors and the unleaded gasoline throughput. The emission factors for gasoline dispensing were obtained from the EPA's AP-42, Section 5.2. The annual emissions were estimated based on the annual unleaded gasoline throughput of 500,077 gallons. The hourly emissions were estimated based on the number of nozzles and assuming a filling rate of 6 gallons per minute over 40 minutes per hour ( $8 \ge 6 \le 40$  gallons per hour [gal/hr]). A detailed breakdown of the unleaded gasoline dispensing emissions by pollutant for each Scenario is provided in Appendix A. There were no substantial changes in unleaded gasoline dispensing emissions between the Existing and LRDP Scenarios.

### 2.1.3 Boilers

In the Existing and LRDP Scenarios, eight permitted boilers located throughout the campus primarily provide hot water to campus dormitories. Each boiler is permitted to fire on natural gas with a rated capacity generally ranging from 4 to 12 MMBTU/hr (one auxiliary boiler located at the Cogen Plant is rated at 224 MMBTU/hr). The emissions were estimated based on emission factors and the reported natural gas usage. The emission factors for natural gas were obtained from Ventura County in May 2001. The annual emissions were estimated based on the annual natural gas usage of 131.9, 117, and 48 MMcf, respectively, reported by Energy Services, North Campus, and Utilities. The natural gas reported by Energy Services was all burned in the Cogen Plant auxiliary boiler. The natural gas reported by North Campus was divided equally between the four boilers in Hedrick and Rieber Halls. The natural gas reported by Utilities was divided between the three boilers in Warren Hall and 200/201 Med Plaza based on the size of the boilers. The hourly emissions were estimated based on a theoretical maximum hourly usage calculated from the size of the boiler divided by the lower heating value for natural gas. A detailed breakdown of boiler emissions by pollutant for each Scenario is included in Appendix A. There were no substantial changes in boiler emissions between the Existing and LRDP Scenarios.

### 2.1.4 Internal Combustion Engines

In the Existing and LRDP Scenarios, 53 standby generators containing ICEs located throughout the campus provide emergency power to campus-wide facilities. In the LRDP Scenario, it was assumed that two new standby generators containing ICEs would be installed to support the projected new construction across the campus.

The existing standby generators' ICEs are fired on diesel fuel and have rated capacities ranging from 66 to 2,220 brake horsepower (bhp). The emissions were estimated based on emission factors and the reported diesel fuel usage. The gaseous emissions for diesel-fired ICEs rated less than 600 bhp were estimated based on emission factors obtained from the EPA's AP-42, Table 3.3-2, October 1996. The gaseous emissions for diesel-fired ICEs rated based on emission factors obtained from the EPA's AP-42, Table 3.3-2, October 1996. The gaseous emissions for diesel-fired ICEs rated greater than 600 bhp were estimated based on emission factors obtained from the EPA's AP-42, Table 3.4-3, October 1996.

Most of the particulate matter (PM) emissions were estimated based on the generic PM emission factor in the annual air emission report. However, for the standby generators at the Cogen Plant (ICE 10) and the Medical Center (ICEs 38-41), the PM emissions were estimated based on manufacturers' data. The annual emissions were estimated based on the annual diesel fuel usage of 4,200, 390, and 2,600 gallons, respectively, reported by Energy Services, North Campus, and Utilities. The diesel fuel reported by Energy Services was all burned in the Cogen Plant standby generator. The diesel fuel reported by North Campus was divided between the six standby generators supporting the North Campus dormitories based on the size of the engines. The diesel fuel reported by Utilities was divided between the 38 standby generators maintained by Utilities throughout the campus based on the size, actual logged hours, and load factor for the engines. The load factors were estimated based on discussions with Facilities Management personnel. Most standby generators on campus are routinely tested at idle and, thus, were assumed to operate at a 25% load factor. However, the Cogen Plant and UCLA Medical Center standby generators undergo more rigorous testing and are routinely operated at approximately 75% load. The hourly emissions were estimated based on an hourly usage calculated from the size of the engine and load factor.

For the new potential standby generators and some of the existing standby generators (ICEs 48-49, 51-54, and 56), it was assumed that a 500 bhp diesel-fired ICE would drive the generator. The emissions were estimated based on emission factors and assuming a representative operation and diesel fuel usage. The gaseous emissions were estimated based on emission factors obtained from the EPA's AP-42, Table 3.3-2, October 1996. The PM emissions were estimated based on the proposed California PM standard for new diesel-fired standby generators (0.1 grams per bhp). A manufacturer specification (spec) sheet was obtained from Caterpillar for a 487 bhp diesel-fired engine to represent the new engines across the campus. The spec sheet provided some data necessary for this analysis (e.g., fuel consumption, exhaust temperature, etc.). A copy of the spec sheet is contained in Appendix A. The annual emissions were based on diesel fuel usage associated with 26 hours per year (hr/yr) of operation. Based on discussions with Facilities Management personnel, standby generators on campus are generally tested 15 to 20 minutes per week at 25% load for routine maintenance purposes, which equates to about 13 to 17 hours of annual operation. For conservatism, this analysis assumed that the standby generators would be tested for 30 minutes per week at 25% load for routine maintenance purposes equating to 26 hr/yr of operation. The hourly emissions were estimated based on an hourly usage calculated from the size of the engine and load

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factor. A detailed breakdown of ICE emissions by pollutant for each Scenario is presented in Appendix A. There was a slight increase in ICE emissions in the LRDP Scenario because of the projected installation of two new standby generators containing ICEs in the Scenario.

### 2.1.5 Painting Operations

In the Existing and LRDP Scenarios, one permitted painting spray booth is located in the Campus Services Building I. The emissions were estimated based on material composition obtained from representative Material Safety Data Sheets (MSDSs) and material usage. It was assumed that all of the material usage was evaporated through the exhaust stack. The annual emissions were estimated based on the annual usage of primer, sealer, and lacquer of 14.5, 95, and 111.3 gallons, respectively. The hourly emissions were estimated based on a material usage of one gal/hr. A detailed breakdown of the painting spray booth emissions by pollutant for each Scenario is presented in Appendix A. There were no substantial changes in painting spray booth emissions between the Existing and LRDP Scenarios.

### 2.1.6 Laboratory Chemical Usage

In the Existing and LRDP Scenarios, numerous research labs are located throughout the campus. The research involves the routine use, storage, and transport of lab chemicals. In the Existing Scenario, the amount of "wet" lab floor space (i.e., the area where the chemicals are handled and used) contained within labs is approximately 1,067,325 square feet (ft<sup>2</sup>). In the LRDP Scenario, the amount of projected "wet" lab floor space is approximately 935,369ft<sup>2</sup> (after projected demolition and construction of labs).

In the Existing and LRDP Scenarios, numerous fume hoods vent the "wet" lab floor space in the buildings. The venting systems are ducted through and released at the top of the buildings. The magnitude of emissions released through the fume hood venting systems is dependent on the volumetric or mass usage of chemicals in the "wet" labs and loss factors. A representative list of chemicals used within the UCLA labs was developed based on a list of chemicals presented in a University of California, Berkeley (UCB) HRA for UCB Central Campus operations (URS, 2000). It was deemed representative given the similar nature and scope of the general research activities between UCLA and UCB. In addition, the mass usage and loss factors were obtained from the UCB HRA. The mass usage for UCLA labs was scaled based on the total mass usage reported in the UCB HRA and the associated UCB ""wet" lab floor space of 499,332 ft<sup>2</sup>. Thus, the UCLA mass usage for each Scenario was determined based on scaling the UCB mass usage by the ratio of the "wet" lab floor spaces for the two campuses (i.e., 1,067,325/499,332 = 2.14 and 935,369/499,332 = 1.87). The loss factors were derived from a study prepared for Stanford University for the Stanford Biology-Chemistry Quadrangle project (Decision Focus 1989) where a number of Principal Investigators and Lab Coordinators were interviewed in a detailed survey. The loss factors represent conservative estimates of evaporative chemical losses that might occur assuming relatively good to poor laboratory practices. The actual evaporative losses will likely be lower than the loss factors used in this analysis. The loss factors for all chemicals were applied to the expected annual chemical usage to estimate potential annual emissions.

No information was available to directly calculate potential hourly laboratory emissions; therefore, the maximum hourly fume hood emissions were estimated based on ratios between maximum and average

emission factors from other studies. An average ratio of 5.18 was calculated, which was applied to the annual fume hood emissions. A detailed breakdown of lab chemical usage emissions by pollutant for each Scenario is provided in Appendix A. There was a slight decrease in lab chemical usage emissions in the LRDP Scenario because of the projected decrease in "wet" lab floor space in the Scenario.

### 2.2 SOURCE PRIORITIZATION

In the Existing and LRDP Scenarios, three prioritization scores (scores) (i.e., cancer, chronic noncancer, and acute noncancer) were calculated for each source based on standard equations contained in the CAPCOA Facility Prioritization Guidelines (July 1990) and emissions calculated in Section 2.1. The scores account for potency, toxicity, and quantities of pollutants released from sources and provide a comparative mechanism to estimate the potential of an individual emission source to cause adverse health effects. Sources with higher scores have a higher potential to cause adverse health effects than sources with lower scores.

The cancer scores were calculated based on the source's annual estimated emissions and appropriate cancer unit risk factor (URF). The chronic noncancer scores were calculated based on the source's annual estimated emissions and appropriate chronic noncancer reference exposure level (REL). The acute noncancer scores were calculated based on the source's hourly estimated emissions and appropriate acute noncancer REL.

The sources with cancer scores greater than 0.25 were included in the HRA for each Scenario. The sources included in the HRA for the Existing and LRDP Scenarios accounted for 98.9% of the potential cancer risk. The sources with chronic noncancer scores greater than 1.0 were included in the HRA for each Scenario. The sources included in the HRA for the Existing and LRDP Scenarios accounted for 98.5% and 98.4%, respectively, of the potential chronic noncancer risk. The sources with acute noncancer scores greater than 1.0 were included in the HRA for the Existing and LRDP Scenarios accounted for 98.5% and 98.4%, respectively, of the potential chronic noncancer risk. The sources with acute noncancer scores greater than 1.0 were included in the HRA for each Scenario. The sources included in the HRA for the Existing and LRDP Scenarios accounted for 84.9% and 85.2%, respectively, of the potential acute noncancer risk. A summary of the source prioritization scores and results for the Existing and LRDP Scenarios is presented in Tables 2-3 and 2-4, respectively. A detailed breakdown of the source prioritization scores for each Scenario is presented in Appendix B.

### 2.3 HEALTH EFFECTS

Table 2-5 identifies the substances included in the HRA for both Scenarios and the potential health effects for which the substances will be evaluated. The same substances were evaluated in both Scenarios.

## UCLA LRDP Update HRA

		Existing S	cenario		LDRP Scenario				
	Evalua Prioriti		1	ated in RA	Evalua Prioriti	tere les cere	Evaluated in HRA		
Substance	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	
Acetaldehyde	3.23E-02	1.15E+02	2.52E-02	1.14E+02	3.35E-02	1.15E+02	2.65E-02	1.14E+02	
Acetonitrile	2.37E-01	4.01E+02	2.32E-01	3.93E+02	2.08E-01	3.51E+02	2.03E-01	3.43E+02	
Acrolein	5.06E-03	1.88E+01	4.06E-03	1.84E+01	5.20E-03	1.88E+01	4.22E-03	1.84E+01	
Antimony	5.85E-06	5.12E-02	5.85E-06	5.12E-02	5.85E-06	5.12E-02	5.85E-06	5.12E-02	
Arsenic	5.85E-06	5.12E-02	5.85E-06	5.12E-02	5.85E-06	5.12E-02	5.85E-06	5.12E-02	
Benzene	1.39E-01	9.22E+01	1.27E-01	9.00E+01	1.37E-01	8.62E+01	1.25E-01	8.40E+01	
Benzyl Chloride	4.52E-04	3.96E+00	4.52E-04	3.96E+00	4.52E-04	3.96E+00	4.52E-04	3.96E+00	
Beryllium	9.74E-07	8.53E-03	9.74E-07	8.53E-03	9.74E-07	8.53E-03	9.74E-07	8.53E-03	
Bromine Compounds	3.01E-03	5.09E+00	2.95E-03	4.99E+00	2.64E-03	4.46E+00	2.58E-03	4.36E+00	
Butadiene, 1,3-	1.01E-03	1.24E+00	6.57E-04	1.24E+00	1.06E-03	1.24E+00	7.22E-04	1.24E+00	
Butyl Alcohol, Tert-	1.06E+00	1.80E+03	1.04E+00	1.77E+03	9.33E-01	1.58E+03	9.13E-01	1.54E+03	
Cadmium	9.74E-07	8.53E-03	9.74E-07	8.53E-03	9.74E-07	8.53E-03	9.74E-07	8.53E-03	
Carbon Tetrachloride	2.11E-02	3.78E+01	2.07E-02	3.71E+01	1.86E-02	3.35E+01	1.82E-02	3.28E+01	
Chlorobenzene	4.75E-04	4.16E+00	4.75E-04	4.16E+00	4.75E-04	4.16E+00	4.75E-04	4.16E+00	
Chloroform	5.12E-01	8.68E+02	5.02E-01	8.51E+02	4.49E-01	7.61E+02	4.39E-01	7.44E+02	
Chromium Hexavalent	9.74E-07	8.53E-03	9.74E-07	8.53E-03	9.74E-07	8.53E-03	9.74E-07	8.53E-03	
Copper	3.90E-06	3.41E-02	3.90E-06	3.41E-02	3.90E-06	3.41E-02	3.90E-06	3.41E-02	
Dichlorobenzene, p-	2.10E-04	1.84E+00	2.10E-04	1.84E+00	2.10E-04	1.84E+00	2.10E-04	1.84E+00	
Diesel Exhaust		1							
(particulates)	1.52E+01	1.47E+02	1.22E+01	1.45E+02	1.54E+01	1.52E+02	1.24E+01	1.51E+02	
Dimethylformamide	1.35E-02	2.28E+01	1.32E-02	2.24E+01	1.18E-02	2.00E+01	1.16E-02	1.96E+01	
Dioxane, 1,4-	3.46E-02	5.85E+01	3.39E-02	5.74E+01	3.03E-02	5.13E+01	2.97E-02	5.02E+01	
Epichlorohydrin	2.91E-04	4.92E-01	2.85E-04	4.82E-01	2.55E-04	4.31E-01	2.49E-04	4.21E-01	
Ethanol	1.88E+01	3.17E+04	1.84E+01	3.11E+04	1.64E+01	2.78E+04	1.61E+01	2.72E+04	
Ethyl Acetate	7.71E-01	1.30E+03	7.57E-01	1.28E+03	6.76E-01	1.14E+03	6.61E-01	1.12E+03	
Ethyl Benzene	2.80E-02	9.74E+01	2.76E-02	9.59E+01	2.80E-02	9.74E+01	2.76E-02	9.59E+01	
Ethyl Ether	4.21E-01	7.12E+02	4.13E-01	6.99E+02	3.69E-01	6.24E+02	3.61E-01	6.10E+02	
Ethylene Dichloride	2.75E-04	2.41E+00	2.75E-04	2.41E+00	2.75E-04	2.41E+00	2.75E-04	2.41E+00	
Ethylene Glycol Butyl Ether	1.32E+00	8.30E+01	0.00E+00	0.00E+00	1.32E+00	8.30E+01	0.00E+00	0.00E+00	
Formaldehyde	4.47E-01	2.34E+03		2.33E+03	4.26E-01	2.30E+03	4.11E-01	2.29E+03	
Glutaraldehyde	6.16E-03	1.04E+01		1.02E+01	5.39E-03	9.12E+00	5.28E-03	8.92E+00	
Hexane	9.65E-02	5.10E+01		4.95E+01	9.44E-02	4.74E+01	9.38E-02	4.59E+01	
Hydrazine	2.91E-04	4.92E-01	2.85E-04	4.82E-01	2.55E-04	4.31E-01	2.49E-04	4.21E-01	
Hydrogen Chloride	5.50E-01	9.30E+02	5.39E-01	9.12E+02	4.82E-01	8.15E+02	4.71E-01	7.97E+02	
Hydrogen Fluoride	1.98E-02	3.34E+01	1.94E-02	3.28E+01	1.73E-02	2.93E+01	1.69E-02	2.86E+01	
Isopropyl Alcohol	7.55E-01	1.28E+03		1.25E+03	6.61E-01	1.12E+03	6.47E-01	1.09E+03	
Lead	3.90E-06	3.41E-02		3.41E-02	3.90E-06	3.41E-02	3.90E-06	3.41E-02	
	4.87E-05	4.27E-01	4.87E-05	4.27E-01	4.87E-05	4.27E-01	4.87E-05	4.27E-01	
Manganese Mercury Compounds	4.87E-03 5.85E-07	5.12E-03	4.87E-03	5.12E-03	5.85E-07	5.12E-03	5.85E-07	5.12E-03	
Methanol	3.59E+00	6.07E+03	3.52E+00	5.96E+03	3.15E+00	5.32E+03	3.08E+00	5.21E+03	

# Table 2-1. Emissions Evaluated in the UCLA Prioritization and HRA for the Existing and LRDP Scenarios

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## UCLA LRDP Update HRA

		Existing S	cenario		LDRP Scenario					
	Evalua Prioriti			ated in RA	Evalua Prioriti		Evaluated in HRA			
Substance	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(ib/yr)	(lb/hr)	(lb/yr)		
Methyl Bromide	1.46E+00	2.47E+03	1.43E+00	2.42E+03	1.28E+00	2.16E+03	1.25E+00	2.11E+03		
Methyl Tert Butyl Ether	6.34E-01	1.65E+02	6.34E-01	1.65E+02	6.34E-01	1.65E+02	6.34E-01	1.65E+02		
Methylene Chloride	1.27E+00	2.16E+03	1.25E+00	2.12E+03	1.12E+00	1.90E+03	1.09E+00	1.86E+03		
Naphthalene	1.21E-02	3.94E+00	1.10E-02	3.89E+00	1.23E-02	3.94E+00	1.11E-02	3.89E+00		
Nickel	1.95E-06	1.71E-02	1.95E-06	1.71E-02	1.95E-06	1.71E-02	1.95E-06	1.71E-02		
PAH (carcinogenic)	8.32E-03	2.69E+00	7.30E-03	2.68E+00	8.44E-03	2.70E+00	7.44E-03	2.68E+00		
Perchloroethylene	5.90E-03	3.95E+01	5.86E-03	3.94E+01	5.68E-03	3.91E+01	5.65E-03	3.91E+01		
Phosgene	8.97E-04	1.52E+00	8.80E-04	1.49E+00	7.86E-04	1.33E+00	7.69E-04	1.30E+00		
Propylene	3.03E-01	1.18E+02	2.38E-01	5.18E+00	3.07E-01	1.18E+02	2.42E-01	5.30E+00		
Propylene Oxide	9.45E-03	8.28E+01	9.45E-03	8.28E+01	9.45E-03	8.28E+01	9.45E-03	8.28E+01		
Pyridine	9.13E-03	1.54E+01	8.95E-03	1.51E+01	8.00E-03	1.35E+01	7.82E-03	1.32E+01		
Selenium	9.74E-07	8.53E-03	9.74E-07	8.53E-03	9.74E-07	8.53E-03	9.74E-07	8.53E-03		
Tetrahydrofuran	2.02E-01	3.42E+02	1.98E-01	3.35E+02	1.77E-01	2.99E+02	1.73E-01	2.93E+02		
Toluene	3.16E-01	7.43E+02	3.08E-01	7.34E+02	3.03E-01	7.20E+02	2.95E-01	7.11E+02		
Trichloroethane, 1,1,1-	1.36E-02	2.59E+01	1.34E-02	2.54E+01	1.20E-02	2.31E+01	1.18E-02	2.27E+01		
Trichloroethylene	5.55E-03	1.34E+01	5.46E-03	1.32E+01	4.94E-03	1.23E+01	4.84E-03	1.21E+01		
Triethylamine	1.04E-02	1.76E+01	1.02E-02	1.73E+01	9.14E-03	1.55E+01	8.94E-03	1.51E+01		
Vinyl Chloride	4.35E-04	3.81E+00	4.35E-04	3.81E+00	4.35E-04	3.81E+00	4.35E-04	3.81E+00		
Vinylidene Chloride	2.74E-04	2.40E+00	2.74E-04	2.40E+00	2.74E-04	2.40E+00	2.74E-04	2.40E+00		
Xylenes	1.33E-01	3.54E+02	1.28E-01	3.48E+02	1.28E-01	3.45E+02	1.23E-01	3.39E+02		
Zinc	2.14E-05	1.88E-01	2.14E-05	1.88E-01	2.14E-05	1.88E-01	2.14E-05	1.88E-01		

## UCLA LRDP Update HRA

Table 2-2.	Sources Evaluated in the UCLA Prioritization and HRA
	for the Existing and LRDP Scenarios

		Location	Size	Units	Permit/ Status	Existing S	cenario	LDRP Scenario	
Source ID	Source Type					Evaluated in Prioritization	Evaluated in HRA	Evaluated in Prioritization	Evaluated in HRA
TURB1	Gas Turbine	Cogen	234	MMBTU/hr	F00255	1	1	1	1
TURB2	Gas Turbine	Cogen	234	MMBTU/hr	F00070	1	1	1	1
DISP1	Gasoline Disp	Fleet Services	10,000	gal capacity	N8863	-	1	1	1
BOIL1	Boiler (2)	Hedrick Hall	5	MMBTU/hr	D79672/3	1		1	
BOIL2	Boiler (2)	Rieber Hall	5	MMBTU/hr	D79674/5	1		1	
BOIL3	Boiler	Warren Hall	5	MMBTU/hr	D71042	1		1	
BOIL4	Boiler (2)	200 Med Plaza	13	MMBTU/hr	D71162/5	1	1	1	
BOIL5	Boiler	Cogen	224	MMBTU/hr	F01220	1	1	1	1
ICE1	ICE, Stby Gen	Ackerman	746	bhp	D89196	1	1	1	1
ICE2	ICE, Stby Gen	Kerckhoff	377	bhp	F37887	1	1	1	1
ICE3	ICE, Stby Gen	Covel	339	bhp	D38196	1	1	1	1
ICE4	ICE, Stby Gen	Sunset Rec Ne	66	bhp	D88184	1		1	
ICE5	ICE, Stby Gen	De Neve	550	bhp	F36980	1	1	1	1
ICE6	ICE, Stby Gen	Hedrick	440	bhp	F38570	1	1	1	1
ICE7	ICE, Stby Gen	Sproul Hall	724	bhp	F38571	1	1	1	1
ICE8	ICE, Stby Gen	Dykstra	320	bhp	F38572	1	1	1	1
ICE9	ICE, Stby Gen	Rieber Hall	320	bhp	F38573	1	1	1	1
ICE10	ICE, Stby Gen	Cogen	2,220	bhp	D75643	1	1	1	1
ICE11	ICE, Stby Gen	Young Hall E	1,750	bhp	D88255	1	1	1	1
ICE12	ICE, Stby Gen	Boelter III	443	bhp	D89155	1		1	
ICE13	ICE, Stby Gen	Royce NW	235	bhp	D98768	1		1	
ICE14	ICE, Stby Gen	Boelter II 12400	166	bhp	D98801	1		1	
ICE15	ICE, Stby Gen	Fowler	390	bhp	F00370	1		1	
ICE16	ICE, Stby Gen	MSB	1,232	bhp	F00371	1	1	1	1
ICE17	ICE, Stby Gen	STRB	746	bhp	F11549	1	1	1	1
ICE18	ICE, Stby Gen	PS 4	519	bhp	F17312	1		1	
ICE19	ICE, Stby Gen	SRL N	377	bhp	F2279	1		1	

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# UCLA LRDP Update HRA

		Location	Size	Units	Permit/ Status	Existing S	cenario	LDRP Scenario		
Source ID	Source Type					Evaluated in Prioritization	Evaluated in HRA	Evaluated in Prioritization	Evaluated in HRA	
ICE20	ICE, Stby Gen	UCPD NE	746	bhp	F23691	1	. 1	1	1	
ICE21	ICE, Stby Gen	Life Sciences	250	bhp	F23692	1		1		
ICE22	ICE, Stby Gen	PS 1	750	bhp	F2943		1	1	1	
ICE23	ICE, Stby Gen	Franz Hall	166	bhp	F37922	1		1		
ICE24	ICE, Stby Gen	Math Sciences	94	bhp	F39010	1		1		
ICE25	ICE, Stby Gen	MBI Rm 102	335.25	bhp	F4680	1		1		
ICE26	ICE, Stby Gen	SRL	168	bhp	F4681	1		1		
ICE27	ICE, Stby Gen	PS 8 SE	168	bhp	F4806	1		1		
ICE28	ICE, Stby Gen	Powell E	240	bhp	F4807	1		1		
ICE29	ICE, Stby Gen	Rehab	107	bhp	F4808	1		1		
ICE30	ICE, Stby Gen	Bunche	100	bhp	F5266	1		1	1	
ICE31	ICE, Stby Gen	LATC	135	bhp	F5268	1		1		
ICE32	ICE, Stby Gen	Pauley	135	bhp	F5269	1		1		
ICE33	ICE, Stby Gen	Law Library	370	bhp	F5492	1		1		
ICE34	ICE, Stby Gen	Gonda	1,850	bhp	F9960	1	1	1	1	
ICE35	ICE, Stby Gen	200 Med Plaza	400	bhp	D77804	1	1	1	1	
ICE36	ICE, Stby Gen	300 Med Plaza	335	bhp	D77805	-	1	1	1	
ICE37	ICE, Stby Gen	200 Med Plaza	400	bhp	D77806	1	1	1	1	
ICE38	ICE, Stby Gen	UCLA Med Ctr	1,260	bhp	D78147	1	1	1	1	
ICE39	ICE, Stby Gen	UCLA Med Ctr	1,260	bhp	D78148	1	1	1	1	
ICE40	ICE, Stby Gen	UCLA Med Ctr	1,260	bhp	D78149	1	1	1	1	
ICE41	ICE, Stby Gen	UCLA Med Ctr	1,260	bhp	D78150	1	1	1	1	
ICE42	ICE, Stby Gen	UCLA Med Ctr	1,550	bhp	D79963	1	1	1	1	
ICE44	ICE, Stby Gen	Macdonald Lab	890	bhp	D48280	1	1	1	1	
ICE45	ICE, Stby Gen	AGSM South	1,490	bhp	D87699	1		1		

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## UCLA LRDP Update HRA

ID Type		-		Units	Permit/ Status	Existing S	Scenario	LDRP Scenario	
	Source Type		Size			Evaluated in Prioritization	Evaluated in HRA	Evaluated in Prioritization	Evaluated in HRA
ICE46	ICE, Stby Gen	SEAS IV NW	1,095	bhp	D99790	1	1	1	1
ICE47	ICE, Stby Gen	HANX	102	bhp	F38569	1		Demolition	
ICE48	ICE, Stby Gen	Env Svcs Fac	500	bhp	Existing	1	1	1	1
ICE49	ICE, Stby Gen	Phy & Ast/Knudsen	500	bhp	Existing	1	1	1	1
ICE50	ICE, Stby Gen	Ambulatory	500	bhp	Proposed			1	1
ICE51	ICE, Stby Gen	HSSRB #1	500	bhp	Existing	1	1	1	1
ICE52	ICE, Stby Gen	HSSRB #2	500	bhp	Existing	1	1	1	1
ICE53	ICE, Stby Gen	Luck Ctr	500	bhp	Existing	1	1	1	1
ICE54	ICE, Stby Gen	HSSRB #3	500	bhp	Existing	1	1	1	1
ICE55	ICE, Stby Gen	Stein 3	500	bhp	Proposed			1	1
ICE56	ICE, Stby Gen	CNSI - COS	500	bhp	Existing	1	1	1	1
COAT1	Coating	Spray Booth, CSB I	N/A	N/A	D44160	1		1	
LAB1	Wet Lab	Rehab Center	14,806	ft²	Existing	1	1	1	1
LAB2	Wet Lab	Warren Hall	17,211	ft <sup>2</sup>	Existing	1	1	Demolition	
LAB2	Wet Lab	Warren Hall	3,424	ft <sup>2</sup>	Existing	1	1	Demolition	
LAB3	Wet Lab	Med Plza 200	2,218	ft²	Existing	1		1	
LAB3	Wet Lab	Med Plza 300	2,091	ft2	Existing	1		1	
LAB4	Wet Lab	Brain Rsch	26,691	ft2	Existing	1	1	Demolition	
LAB4	Wet Lab	Cyclotrn Bio	1,584	ft²	Existing	1	1	1	1
LAB4	Wet Lab	Dentistry	31,364	ft²	Existing	1	1	1	1
LAB4	Wet Lab	Doris Stein	2,435	ft²	Existing	1	1	1	1
LAB4	Wet Lab	Facmgmt-Chlr	87	ft²	Existing	1	1	1	1
LAB4	Wet Lab	Factor	14,803	ft²	Existing	1	1	1	1
LAB4	Wet Lab	Factor	16,493	ft²	Existing	1	1	1	1
LAB4	Wet Lab	Gonda Center	23,667	ft²	Existing	1	1	1	1
LAB4	Wet Lab	Health Sci	11,193	ft²	Existing	1	1	Demolition	
LAB4	Wet Lab	Health Sci	89,382	ft <sup>2</sup>	Existing	1	1	Demolition	
LAB4	Wet Lab	Jerry Lewis	8,818	ft²	Existing	1	1	1	1
LAB4	Wet Lab	Jules Stein	5,688	ft²	Existing	1	1	1	1
LAB4	Wet Lab	Life Science	40,576	ft²	Existing		1	1	1
LAB4	Wet Lab	M Davies CC	9,000	ft²	Existing	1	1	1	1
LAB4	Wet Lab	Macdonaldlab	42,706	ft²	Existing	1	1	1	1
LAB4	Wet Lab	Nueropsych	10,853	ft²	Existing	1	1	Demolition	
LAB4	Wet Lab	Parkg St CHS	5,997	ft <sup>2</sup>	Existing	1	1	1	1
LAB4	Wet Lab	Plant Phys	2,712	ft2	Existing	1	1	Demolition	
LAB4	Wet Lab	Public HIth	13,142	ft²	Existing	1	1	1	1
LAB4	Wet Lab	Reed Resrch	10,105	ft2	Existing	1	1	Demolition	

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# UCLA LRDP Update HRA

						Existing S	cenario	LDRP Scenario		
Source ID	Source Type	Location	Size	Units	Permit/ Status	Evaluated in Prioritization	Evaluated in HRA	Evaluated in Prioritization	Evaluated in HRA	
LAB4	Wet Lab	Clinical Res	4,116	ft²	Existing	1	1	1	1	
LAB4	Wet Lab	Vivarium	8,020	ft2	Existing	1	1	1	1	
LAB5	Wet Lab	Boelter Hall	11,423	ft <sup>2</sup>	Existing	1	1	1	1	
LAB5	Wet Lab	Boelter Hall	34,574	ft²	Existing	1	1	1	1	
LAB5	Wet Lab	Botany	8,829	ft²	Existing	1	1	1	1	
LAB5	Wet Lab	Engr Bldg I	1,262	ft <sup>2</sup>	Existing	1	1	Demolition		
LAB5	Wet Lab	Engr Bldg I	18,623	ft2	Existing	1	1	Demolition		
LAB5	Wet Lab	Engr Bldg 4	44,275	ft <sup>2</sup>	Existing	1	1	1	1	
LAB5	Wet Lab	Franz Hall	8,377	ft2	Existing	1	1	1	1	
LAB5	Wet Lab	Geology	2,610	ft <sup>2</sup>	Existing	1	1	1	1	
LAB5	Wet Lab	Geology	22,449	ft²	Existing	1	1	1	1	
LAB5	Wet Lab	Knudsen Hall	26,817	ft <sup>2</sup>	Existing	1	1	1	1	
LAB5	Wet Lab	Math Science	2,021	ft <sup>2</sup>	Existing	1	1	1	1	
LAB5	Wet Lab	Moleculr Sci	33,513	ft <sup>2</sup>	Existing	1	1	1	1	
LAB5	Wet Lab	Moleculr Sci	10,741	ft <sup>2</sup>	Existing	1	1	1	1	
LAB5	Wet Lab	Slichter	1,712	ft <sup>2</sup>	Existing	1	1	1	1	
LAB5	Wet Lab	Slichter	6,947	ft <sup>2</sup>	Existing	1	1	1	1	
LAB5	Wet Lab	Young Hall	50,790	ft²	Existing	1	1	1	1	
LAB5	Wet Lab	Young Hall	5,987	ft2	Existing	1	1	1	1	
LAB5	Wet Lab	Boyer Hall	10,753	ft2	Existing	1	1	1	1	
LAB5	Wet Lab	Boyer Hall	20,922	ft <sup>2</sup>	Existing	1	1	1	1	
LAB6	Wet Lab	Powell Lib	264	ft2	Existing	1		1		
LAB7	Wet Lab	Fowler Musm	5,937	ft <sup>2</sup>	Existing	1		1		
LAB8	Wet Lab	Bunche Hall	1,660	ft2	Existing	1		1		
LAB8	Wet Lab	Perloff Hall	825	ft <sup>2</sup>	Existing	1		1		
LAB9	Wet Lab	Macgowan	8,836	ft2	Existing	1	1	1	1	
LAB9	Wet Lab	Melnitz Hall	2,692	ft2	Existing	1	1	1	1	
LAB10	Wet Lab	Ashe Center	762	ft2	Existing	1		1		
LAB12	Wet Lab	West Med Ph Manf	606	ft²	Existing	1		1		
LAB13	Wet Lab	WW Hosp	12,928	ft2	Existing	1	1	1	1	
LAB14	Wet Lab	Env Svcs Fac		ft2	Existing	1		1		
LAB15	Wet Lab	Phy & Ast/Knudsen	25,300	ft²	Existing	1	1	1	1	
LAB16	Wet Lab	Ambulatory	23,500	ft2	Proposed			1	1	
LAB17	Wet Lab	PPRB	200	ft2	Existing	1		1	-	
LAB18	Wet Lab	HSSRB #1	32,000	ft2	Existing	1	1	1	1	
LAB19	Wet Lab	HSSRB #2	55,590	ft2	Existing	1	1	1	1	
LAB20	Wet Lab	Luck Ctr	36,352	ft <sup>2</sup>	Existing	1	1	1	1	
LAB21	Wet Lab	HSSRB #3	65,000	ft2	Existing	1	1	1	1	
LAB22	Wet Lab	Stein 3	36,000	ft2	Proposed			1	1	
LAB23	Wet Lab	Engr. I Replacement	21,711	ft²	Existing	1	1	1	1	
LAB24	Wet Lab	CNSI - COS	49,000	ft²	Existing	1	1	1	1	

## UCLA LRDP Update HRA

#### Table 2-3. Summary of UCLA Source Prioritization Scores and Results for the Existing Scenario

Number	Evaluated In HRA	Cancer > 0.25	Chronic NC > 1	Acute NC >	Cancer Score	Cancer %		Chronic NC %	Acute NC Score	Acute NC %
ICE10	~	Y	N	N	42.30	31.87	0.29	0.86	1.00	1.76
TURB1	1	Y	Y	Y	16.34	12.31	8.66	25.84	10.13	17.92
TURB2	1	Y	Y	Y	16.34	12.31	8.66	25.84	10.13	17.92
LAB4	1	Y	Y	Y	8.70	6.55	5.48	16.36	4.04	7.14
LAB5	1	Y	Y	Y	7.39	5.57	4.66	13.91	3.43	6.07
ICE42	1	Y	N	N	2.70	2.03	0.02	0.05	0.23	0.41
ICE7	1	Y	N	N	1.79	1.35	0.01	0.04	0.11	0.19
ICE38	1	Y	N	N	1.66	1.25	0.01	0.03	0.57	1.00
ICE39	1	Y	N	N	1.62	1.22	0.01	0.03	0.57	1.00
ICE40	1	Y	N	N	1.56	1.17	0.01	0.03	0.57	1.00
LAB21	1	Y	N	N	1.49	1.12	0.94	2.80	0.69	1.22
ICE41	1	Y	N	N	1.47	1.11	0.01	0.03	0.57	1.00
ICE48	1	Y	N	N	1.47	1.11	0.01	0.03	0.63	1.11
ICE49	1	Y	N	N	1.47	1.11	0.01	0.03	0.63	1.11
ICE51	1	Y	N	N	1.47	1.11	0.01	0.03	0.63	1.11
ICE52	1	Y	N	N	1.47	1.11	0.01	0.03	0.63	1.11
ICE53	1	Y	N	N	1.47	1.11	0.01	0.03	0.63	1.11
ICE54		Y	N	N	1.47	1.11	0.01	0.03	0.63	1.11
ICE56		Y	N	N	1.47	1.11	0.01	0.03	0.63	1.11
ICE5	1	Y	N	N	1.36	1.03	0.01	0.03	0.88	1.56
LAB19	1	Y	N	N	1.27	0.96	0.80	2.40	0.59	1.05
LAB24	1	Y	N	N	1.12	0.85	0.71	2.11	0.52	0.92
ICE6	1	Y	N	N	1.09	0.82	0.01	0.02	0.71	1.25
ICE3		Y	N	N	0.84	0.63	0.01	0.02	0.54	0.96
LAB20		Y	N	N	0.83	0.63	0.53	1.57	0.39	0.68
ICE8	1	Y	N	N	0.79	0.60	0.01	0.02	0.51	0.00
ICE8	1	Y	N	N	0.79	0.60	0.01	0.02	0.51	0.91
ICE9		Y	N	N	0.79	0.60	0.01	0.02	0.11	0.31
LAB18		Y	N	N	0.73	0.55	0.46	1.38	0.34	0.60
ICE46	1	Y	N	N	0.62	0.47	0.00	0.01	0.16	0.29
LAB15		Y	N	N	0.58	0.44	0.37	1.09	0.27	0.48
ICE34	1	Y	N	N	0.56	0.42	0.00	0.01	0.28	0.49
ICE17	1	Y	N	N	0.55	0.41	0.00	0.01	0.11	0.20
LAB23	1	Y	N	N	0.50	0.37	0.31	0.94	0.23	0.41
ICE37	1	Y	N	N	0.48	0.36	0.00	0.01	0.64	1.14
ICE35		Y	N	N	0.48	0.36	0.00	0.01	0.64	1.14
LAB2	1	Y	N	N	0.47	0.36	0.30	0.89	0.22	0.39
DISP1		Y	N	N	0.41	0.30	0.00	0.01	0.04	0.08
ICE2		Y	N	N	0.40	0.30	0.00	0.01	0.60	1.07
ICE2	1	Y	N	N	0.38	0.29	0.00	0.01	0.00	0.20
ICE20	~	Y	N	N	0.37	0.28	0.00	0.01	0.26	0.46
ICE11		Y	N	N	0.35	0.26	0.00	0.01	0.13	0.24
LAB1		Y	N	N	0.33	0.26	0.00	0.64	0.16	0.24
ICE36		Y	N	N	0.34	0.25	0.00	0.04	0.54	0.95
LAB13		Y	N	N	0.30	0.23	0.19	0.56	0.14	0.35
		Y	N	N	0.30	0.22	0.19	0.00	0.14	0.24
ICE22		Y		N	0.29	0.21	0.00	0.01	0.11	0.20
ICE16 LAB9		Y	N	N	0.27	0.20	0.00	0.50	0.18	0.33

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# UCLA LRDP Update HRA

Number	Evaluated In HRA	Cancer > 0.25	Chronic NC > 1	Acute NC > 1	Cancer Score	Cancer %	Chronic NC Score	Chronic NC %	Acute NC Score	Acute NC %
ICE18		N	N	N	0.20	0.15	0.00	0.00	0.83	1.47
LAB7		N	N	N	0.14	0.10	0.09	0.26	0.06	0.11
LAB14		N	N	N	0.13	0.10	0.08	0.25	0.06	0.11
ICE21		N	N	N	0.13	0.10	0.00	0.00	0.40	0.71
LAB3		N	N	N	0.10	0.07	0.06	0.19	0.05	0.08
ICE29		N	N	N	0.09	0.06	0.00	0.00	0.17	0.30
ICE12		N	N	N	0.07	0.05	0.00	0.00	0.71	1.26
ICE28		N	N	N	0.07	0.05	0.00	0.00	0.39	0.68
ICE45		N	N	N	0.06	0.05	0.00	0.00	0.22	0.39
LAB8		N	N	N	0.06	0.04	0.04	0.11	0.03	0.05
ICE19		N	N	N	0.05	0.04	0.00	0.00	0.60	1.07
BOIL1		N	N	N	0.05	0.03	0.05	0.16	0.22	0.39
BOIL2		N	N	N	0.05	0.03	0.05	0.16		0.39
ICE23		N	N	N	0.04	0.03	0.00	0.00	0.27	0.47
BOIL5	1	N	N	Y	0.04	0.03	0.03	0.10	1.52	2.70
ICE14		N	N	N	0.04	0.03	0.00	0.00	0.27	0.47
ICE47		N	N	N	0.03	0.02	0.00	0.00	0.16	0.29
BOIL4		N	N	N	0.02	0.02	0.03	0.10	0.57	1.02
ICE26		N	N	N	0.02	0.02	0.00	0.00	0.27	0.48
ICE27		N	N	N	0.02	0.01	0.00	0.00	0.27	0.48
LAB10		N	N	N	0.02	0.01	0.01	0.03	0.01	0.01
ICE24		N	N	N	0.02	0.01	0.00	0.00	0.15	0.27
ICE15		N	N	N	0.01	0.01	0.00	0.00	0.63	1.11
LAB12		N	N	N	0.01	0.01	0.01	0.03	0.01	0.01
ICE33		N	N	N	0.01	0.01	0.00	0.00	0.59	1.05
ICE13		N	N	N	0.01	0.01	0.00	0.00	0.38	0.67
ICE31		N	N	N	0.01	0.01	0.00	0.00	0.22	0.38
BOIL3		N	N	N	0.01	0.00	0.01	0.02	0.12	0.21
ICE4		N	N	N	0.01	0.00	0.00	0.00	0.11	0.19
LAB6		N	N	N	0.01	0.00	0.00	0.01	0.00	0.00
ICE32		N	N	N	0.01	0.00	0.00	0.00	0.22	0.38
LAB17		N	N	N	0.00	0.00	0.00	0.01	0.00	0.00
ICE30		N	N	N	0.00	0.00	0.00	0.00	0.16	0.28
ICE25		N	N	N	0.00	0.00	0.00	0.00	0.00	0.00
COAT1		N	N	N	0.00	0.00	0.07	0.21	0.14	0.25
		Total Sc	core for Sources	s to Include in HRA:	131.2	98.9	33.0	98.5	48.0	84.9
		Total Sc		to Omit from HRA:	1.5	1.1	0.5	1.5	8.5	15.1
			Total	Score Overall:	132.7	100.0	33.5	100.0	56.5	100.0

Table 2-4. Summary of UCLA Source Prioritizati	on Scores and Results for the LRDP Scenario
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Number	Evaluated In HRA	Cancer >0.25	Chronic Non- cancer >1	Acute Non- cancer >1	Cancer Score	Cancer %	Non-	Chronic Non- cancer %	Acute Non- cancer Score	Acute Non- cancer %
ICE10	~	Y	N	N	42.30	31.90	0.29	0.91	1.00	1.77
TURB1	1	Y	Y	Y	16.34	12.32	8.66	27.38	10.13	18.02
TURB2	1	Y	Y	Y	16.34	12.32	8.66	27.38	10.13	18.02
LAB5	1	Y	Y	Y	6.94	5.23	4.37	13.83	3.22	5.73
LAB4	1	Y	Y	Y	5.24	3.95	3.30	10.44	2.43	4.32
ICE42	1	Y	N	N	2.70	2.04	0.02	0.06	0.23	0.41
ICE7	1	Y	N	N	1.79	1.35	0.01	0.04	0.11	0.19
ICE38	1	Y	N	N	1.67	1.26	0.01	0.04	0.57	1.01
ICE39	1	Y	N	N	1.62	1.22	0.01	0.04	0.57	1.01
ICE40	1	Y	N	N	1.56	1.18	0.01	0.03	0.57	1.01
LAB21	1	Y	N	N	1.49	1.12	0.94	2.97	0.69	1.23
ICE41	1	Y	N	N	1.48	1.11	0.01	0.03	0.57	1.01
ICE48	1	Y	N	N	1.47	1.11	0.01	0.03	0.63	1.12
ICE49	1	Y	N	N	1.47	1.11	0.01	0.03	0.63	1.12
ICE50	1	Y	N	N	1.47	1.11	0.01	0.03	0.63	1.12
ICE51	1	Y	N	N	1.47	1.11	0.01	0.03	0.63	1.12
ICE52	1	Y	N	N	1.47	1.11	0.01	0.03	0.63	1.12
ICE53	1	Y	N	N	1.47	1.11	0.01	0.03	0.63	1.12
ICE54	1	Y	N	N	1.47	1.11	0.01	0.03	0.63	1.12
ICE55	1	Y	N	N	1.47	1.11	0.01	0.03	0.63	1.12
ICE56	~	Y	N	N	1.47	1.11	0.01	0.03	0.63	1.12
ICE5	1	Y	N	N	1.36	1.03	0.01	0.03	0.88	1.57
LAB19	1	Y	N	N	1.27	0.96	0.80	2.54	0.59	1.05
LAB24	1	Y	N	N	1.12	0.85	0.71	2.24	0.52	0.93
ICE6	1	Y	N	N	1.09	0.82	0.01	0.02	0.71	1.26
ICE3	1	Y	N	N	0.84	0.63	0.01	0.02	0.54	0.97
LAB20	1	Y	N	N	0.83	0.63	0.53	1.66	0.39	0.69
LAB22	1	Y	N	N	0.82	0.62	0.52	1.64	0.38	0.68
ICE8	~	Y	N	N	0.79	0.60	0.01	0.02	0.51	0.91
ICE9	1	Y	N	N	0.79	0.60	0.01	0.02	0.51	0.91
ICE1	1	Y	N	N	0.79	0.60	0.01	0.02	0.11	0.20
LAB18	1	Y	N	N	0.73	0.55	0.46	1.46	0.34	0.61
ICE46	1	Y	N	N	0.62	0.47	0.00	0.01	0.16	0.29
LAB15	1	Y	N	N	0.58	0.44	0.37	1.16	0.27	0.48
ICE34	1	Y	N	N	0.56	0.42	0.00	0.01	0.28	0.49

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Number	Evaluated In HRA	Cancer >0.25	Chronic Non- cancer >1	Acute Non- cancer >1	Cancer Score	Cancer %	Non-	Chronic Non- cancer %	Acute Non- cancer Score	Acute Non- cancer %
ICE17	1	Y	N	N	0.55	0.41	0.00	0.01	0.11	0.20
LAB16	1	Y	N	N	0.54	0.41	0.34	1.07	0.25	0.44
LAB23	1	Y	N	N	0.50	0.38	0.31	0.99	0.23	0.41
ICE37	1	Y	N	N	0.48	0.36	0.00	0.01	0.64	1.14
ICE35	1	Y	N	N	0.48	0.36	0.00	0.01	0.64	1.14
DISP1	1	Y	N	N	0.41	0.31	0.00	0.01	0.04	0.08
ICE2	1	Y	N	N	0.40	0.30	0.00	0.01	0.60	1.08
ICE20	1	Y	N	N	0.38	0.29	0.00	0.01	0.11	0.20
ICE11	1	Y	N	N	0.37	0.28	0.00	0.01	0.26	0.47
ICE44	1	Y	N	N	0.35	0.26	0.00	0.01	0.13	0.24
LAB1	1	Y	N	N	0.34	0.26	0.21	0.68	0.16	0.28
ICE36	1	Y	N	N	0.33	0.25	0.00	0.01	0.54	0.96
LAB13	~	Y	N	N	0.30	0.22	0.19	0.59	0.14	0.24
ICE22	1	Y	N	N	0.29	0.22	0.00	0.01	0.11	0.20
ICE16	~	Y	N	N	0.27	0.20	0.00	0.01	0.18	0.33
LAB9	1	Y	N	N	0.26	0.20	0.17	0.53	0.12	0.22
ICE18		N	N	N	0.20	0.15	0.00	0.00	0.83	1.48
LAB7	-	N	N	N	0.14	0.10	0.09	0.27	0.06	0.11
LAB14		N	N	N	0.13	0.10	0.08	0.27	0.06	0.11
ICE21		N	N	N	0.13	0.10	0.00	0.00	0.40	0.71
LAB3		N	N	N	0.10	0.07	0.06	0.20	0.05	0.08
ICE29		N	N	N	0.09	0.06	0.00	0.00	0.17	0.31
ICE12		N	N	N	0.07	0.05	0.00	0.00	0.71	1.26
ICE28		N	N	N	0.07	0.05	0.00	0.00	0.39	0.68
ICE45		N	N	N	0.06	0.05	0.00	0.00	0.22	0.40
LAB8		N	N	N	0.06	0.04	0.04	0.11	0.03	0.05
ICE19		N	N	N	0.05	0.04	0.00	0.00	0.60	1.08
BOIL1		N	N	N	0.05	0.03	0.05	0.16	0.22	0.40
BOIL2		N	N	N	0.05	0.03	0.05	0.16	0.22	0.40
ICE23		N	N	N	0.04	0.03	0.00	0.00	0.27	0.47
BOIL5	1	N	N	Y	0.04	0.03	0.03	0.11	1.52	2.71
ICE14		N	N	N	0.04	0.03	0.00	0.00	0.27	0.47
BOIL4		N	N	N	0.02	0.02	0.03	0.11	0.57	1.02
ICE26		N	N	N	0.02	0.02	0.00	0.00	0.27	0.48
ICE27		N	N	N	0.02	0.01	0.00	0.00	0.27	0.48
LAB10		N	N	N	0.02	0.01	0.01	0.03	0.01	0.01

# UCLA LRDP Update HRA

Number	Evaluated In HRA	Cancer >0.25	Chronic Non- cancer >1	Acute Non- cancer >1	Cancer Score	Cancer %	Non-	Chronic Non- cancer %	Acute Non- cancer Score	Acute Non- cancer %
ICE24		N	N	N	0.02	0.01	0.00	0.00	0.15	0.27
ICE15		N	N	N	0.01	0.01	0.00	0.00	0.63	1.11
LAB12		N	N	N	0.01	0.01	0.01	0.03	0.01	0.01
ICE33		N	N	N	0.01	0.01	0.00	0.00	0.59	1.06
ICE13		N	N	N	0.01	0.01	0.00	0.00	0.38	0.67
ICE31		N	N	N	0.01	0.01	0.00	0.00	0.22	0.39
BOIL3		N	N	N	0.01	0.00	0.01	0.02	0.12	0.21
ICE4		N	N	N	0.01	0.00	0.00	0.00	0.11	0.19
LAB6		N	N	N	0.01	0.00	0.00	0.01	0.00	0.00
ICE32		N	N	N	0.01	0.00	0.00	0.00	0.22	0.39
LAB17		N	N	N	0.00	0.00	0.00	0.01	0.00	0.00
ICE30		N	N	N	0.00	0.00	0.00	0.00	0.16	0.29
ICE25		N	N	N	0.00	0.00	0.00	0.00	0.00	0.00
COAT1		N	N	N	0.00	0.00	0.07	0.22	0.14	0.25
LAB2		N	N	N	0.00	0.00	0.00	0.00	0.00	0.00
To	tal Score for S	Sources to	Include in HI	RA:	131.2	98.9	31.1	98.4	47.9	85.2
То	tal Score for S	Sources to	Omit from HI	RA:	1.5	1.1	0.5	1.6	8.3	14.8
	Total	Score Ov	erall:		132.6	100.0	31.6	100.0	56.2	100.0

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Table 2-5. Health Effects Categories for Substances Evaluated in the HRA for Both Scenarios

	Assessment of		Nonc	ancer
Substance	Chemical Exposure (ACE) ID	Cancer	Acute	Chronic
Acetaldehyde	1	1	1	
Acetonitrile	191		1	1
Acrolein	3		1	1
Antimony	192		1	1
Arsenic	10	1	1	1
Benzene	13	1	1	1
Benzyl Chloride	16	1	1	1
Beryllium	17	1	1	1
Bromine Compounds	19		4	1
Butadiene, 1,3-	20	1	1	
Butyl Alcohol, Tert-	193		1	1
Cadmium	22	1	1	1
Carbon Tetrachloride	25	1	1	1
Chlorobenzene	29		1	
Chloroform	30	1	1	1
Chromium Hexavalent	36	1	1	1
Copper	38		1	1
Dichlorobenzene, p-	48	1	1	1
Diesel Exhaust (particulates)	194	1	1	
Dimethylformamide	195		1	1
Dioxane, 1,4-	54	1	1	1
Epichlorohydrin	57	1	1	1
Ethanol	196		1	1
Ethyl Acetate	197		1	1
Ethyl Benzene	167		1	1
Ethyl Ether	198		1	1
Ethylene Dichloride	61	1	1	
Ethylene Glycol Butyl Ether	64		1	1
Formaldehyde	70	1	1	1
Glutaraldehyde	72		1	1
Hexane	168		~	1
Hydrazine	77	1	1	1
Hydrogen Chloride	78		~	1
Hydrogen Fluoride	80			1
Isopropyl Alcohol	164			1
Lead	83		· ·	1
Manganese	85		· ·	
Manganese Mercury Compounds	87			
Methanol	88		~	1
	90			
Methyl Bromide		1	~	
Methyl Tert Butyl Ether	165 96		× ×	1
Methylene Chloride	110	•	×	

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in the second	Assessment of		None	cancer
Substance	Chemical Exposure (ACE) ID	Cancer	Acute	Chronic
Nickel	111	~	~	1
PAH (carcinogenic)	130	1	1	1
Perchloroethylene	122	~	1	1
Phosgene	125		1	1
Propylene	134		1	
Propylene Oxide	135	1	1	1
Pyridine	199		1	1
Selenium	137		~	1
Tetrahydrofuran	200		1	1
Toluene	145		1	1
Trichloroethane, 1,1,1-	91		1	1
Trichloroethylene	146	~	1	1
Triethylamine	201		1	1
Vinyl Chloride	149	~	1	1
Vinylidene Chloride	150		1	
Xylenes	151		1	1
Zinc	152		1	1

## 3.0 EXPOSURE ASSESSMENT

The HRA addresses inhalation exposure for all chemicals included in this study. Noninhalation exposure pathways are addressed for those substances identified in the AB 2588 guidance documents as requiring multipathway analysis. The noninhalation pathways evaluated were soil ingestion, dermal absorption, mother's milk, and plant ingestion.

The exposure assessment process uses the emission estimates derived in the initial steps of the risk assessment and predicts the potential dose of each chemical to individuals in the surrounding population. The exposure assessment model, ACE 2588, was developed specifically for conducting risk assessments in compliance with AB 2588. The ACE 2588 model was used to estimate adverse health effects in this HRA.

#### 3.1 AIR DISPERSION MODELING

Air dispersion modeling was conducted to determine the pollutant ground-level concentrations at off- and on-campus locations. The emissions from the routine campus-wide operations at UCLA are released into the atmosphere through point and area sources. The methods used in modeling toxic air pollutants from these sources are consistent with procedures outlined in the CAPCOA AB 2588 guidelines. Additionally, the modeling methodology meets the EPA and California Air Resources Board (CARB) requirements for air quality modeling. The dispersion modeling results can be found in Appendix C.

#### 3.1.1 Model Selection and Options

Several factors were considered in the selection of the appropriate dispersion model for use in the air quality modeling. The UCLA campus is located in Los Angeles, north of Westwood Village, where the terrain is hilly with increasing elevation to the north and northeast. Consequently, the model selected for conducting the modeling required the capability of predicting impacts at simple and complex terrain locations.

The Industrial Source Complex Short Term (ISCST3) model (version 02035) is considered an appropriate model for receptors in simple and complex terrain. Because of the hilly terrain around the campus and its compatibility with existing HRA software, the ISCST3 model was selected to predict ambient impacts from routine campus-wide operations at UCLA. The recommended options listed in the SCAQMD Supplemental Guidelines for Preparing Risk Assessments to Comply with the Air Toxics "Hot Spots" Information and Assessment Act [AB2588] (SCAQMD, 1996) were used for this analysis.

#### 3.1.2 Model Input

#### 3.1.2.1 Meteorological Data

The SCAQMD has required all facilities to utilize a single year of local meteorological data from the year 1981. It is considered that weather conditions during this time represent worst-case dispersion and, hence, will result in a conservative estimate of impacts.

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Data collected at the West Los Angeles monitoring station (surface station I.D. 52158 and upper air station I.D. No. 91919) were selected as the most appropriate data set for the UCLA modeling. West Los Angeles data include measurements of wind speed, wind direction, surface temperature, and stability. Upper air data from near Los Angeles International Airport were used for determining mixing height. Hourly mixing heights were generated using EPA's RAMMET program. RAMMET uses an interpolation scheme that is described in detail in the Industrial Source Complex Dispersion Model User's Guide, (EPA, 1995). The same meteorological data were used in both Scenarios.

#### 3.1.2.2 Model Options and Parameters

Table 3-1 shows the model input options that were used in the ISCST3 modeling. All options were selected as recommended in the SCAQMD <u>Supplemental Guidelines for Preparing Risk Assessments to</u> <u>Comply with the Air Toxics "Hot Spots" Information and Assessment Act</u> (SCAQMD, 1996). The same model options were evaluated in both Scenarios.

#### 3.1.2.3 Modeling Grid

Off- and on-campus receptors were used in the modeling. The off-campus receptors were represented utilizing various grid spacing based on the distances from the campus boundary. The spacing was the smallest near the campus boundary and increased moving away from the boundary. The off-campus grid spacing was as follows:

- 100-meter spacing along the campus boundary and extending out to 500 meters in the areas of the likely maximum impacts (east and west sides of the campus boundary);
- 500-meter spacing out to 2,000 meters; and
- 1000-meter spacing out to 5,000 meters.

The on-campus receptors evaluated were those within the campus boundary that could be characterized as sensitive receptors such as hospitals, day care centers, schools, and residential dormitories and were modeled at their respective locations.

The receptors utilized the Universal Transverse Mercator (UTM) coordinate system. The receptor elevations were obtained electronically from the United States Geological Survey 7.5-minute Digital Elevation Model (DEM) data from the Internet at ftp://130.166.124.228/ca\_dems.2/clickable/overview.htm. The receptor locations near the campus are presented in Figure 3-1. The receptor locations for the complete grid are provided in Figure 3-2. The on-campus receptor locations are shown in Figure 3-3. The same receptors locations were evaluated in both Scenarios.

#### 3.1.2.4 Modeled Sources

The sources evaluated in the HRA discussed in Section 2.1 were modeled as point and area sources. The cogeneration gas turbines, boiler, and ICEs were modeled as point sources at their respective locations. The modeled emissions by source and by pollutant for each Scenario are presented in Appendix A. The modeled point source parameters for both Scenarios are presented in Table 3-2. The gasoline dispensing and lab chemical usage were modeled as area sources. The gasoline dispensing was modeled at its

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respective location with an area representative of where the evaporative emissions would likely originate. The lab chemical usage was modeled from different areas across campus based on the location of the lab. The labs were aggregated, where appropriate, based on their geographic locations. The lab emissions were assumed to be released from the top of the buildings. The modeled area source parameters are presented in Table 3-3. The locations of the modeled point and area sources are presented in Figures 3-4 and 3-5, respectively.

#### 3.1.3 Deposition

A default procedure recommended by SCAQMD and CARB was used to estimate the deposition flux of particulate-borne pollutants on ground surfaces. Under this procedure, a default settling velocity (in meters per second) is multiplied by the ground level concentration (in micrograms per cubic meter) to yield a flux term with units of mass per square meter per second. This procedure has the primary disadvantage of failing to conserve mass (i.e., pollutant mass assumed to be deposited also stays in the plume), resulting in a double counting of particulate impacts at distant receptors.

The CAPCOA AB 2588 guidelines recommend a default settling velocity of 5 centimeters per second for uncontrolled sources and 2 centimeters per second for controlled sources. The 2-centimeter per second value was used in the modeling since PM sources are either controlled, result from the combustion of gas or liquid fuels that would lead to fine aerosol emissions, or are emitted in other ways that would lead to fine aerosol particles that are better represented by the lower settling velocity.

#### 3.1.4 Aerodynamic Wake Effects

The ISCST3 model evaluated the building aerodynamic wake effects on plume concentrations. The Building Profile Input Program (BPIP), Version 95086, was used to generate direction-specific building dimensions for use as input to the ISCST3 model. This program considers buildings as potential candidates for producing building wake effects on dispersion using both the Huber-Snyder and the Schulman-Scire algorithms, as appropriate. BPIP downwash results are included in the electronic files in Appendix E.

#### 3.2 MULTIPATHWAY ANALYSIS

In identifying pathways that could potentially lead to exposure, the type of pollutants emitted, land use in the area, and lifestyle (i.e., urban versus rural or agricultural) must be considered. The following pathways have been identified as potential exposure routes for the routine campus-wide emissions:

- Inhalation;
- Soil ingestion;
- Plant ingestion;
- Dermal exposure; and
- Mother's milk.

Other pathways listed in the CAPCOA AB 2588 guidelines for consideration, such as water ingestion, dairy and beef, and poultry and eggs were not viable exposure routes for UCLA due to the types of substances emitted and surrounding land use. Table 3-4 presents the substances evaluated in both Scenarios and whether the substances are evaluated for inhalation-only exposure or multipathway exposures.

#### 3.2.1 Exposure Calculations

This subsection presents a brief discussion of the calculations for each exposure pathway.

#### 3.2.2 Inhalation Exposure

Exposure to substances in ambient air occurs through inhalation of both gases and PM. For the purpose of this assessment, particulate emissions are considered to be entirely absorbed in the lungs, yielding a conservative estimate of exposure. In reality, only a fraction of the inhaled particulates would deposit in the lungs and be absorbed. Inhalation exposure is determined by multiplying the estimated concentration in air by an average daily inhalation volume specified by the CAPCOA AB 2588 guidelines (20 cubic meters of air per day) and dividing that quantity by body weight (assumed to be 70 kilograms).

#### 3.2.3 Soil Ingestion

Pollutants emitted in the particulate phase are subject to deposition onto ground surfaces and mixing in the uppermost layer of soil. These particulates include metals and semivolatile organics. Soil concentration calculations assume a constant deposition rate onto soil and an even mixing of emissions into the top one centimeter of soil. Loss mechanisms, primarily degradation over time, are considered in estimating the soil concentration of certain organic emissions over the period of interest.

Exposure from incidental ingestion of soil is estimated by multiplying the soil concentration estimate of each substance by a soil ingestion rate specified by the CAPCOA AB 2588 guidelines and dividing by the body weight. The soil ingestion rate is an age-weighted value that reflects higher consumption rates for a child and significantly less consumption for an adult.

#### 3.2.4 Plant Ingestion

Locally grown produce, either from commercial agriculture or family gardens, presents a secondary route of exposure to emissions. Since there is no appreciable commercial agriculture near the UCLA campus, exposure via plant ingestion is limited to the consumption of home-grown garden produce.

Particulate emissions can accumulate in edible garden produce from direct deposition onto plant surfaces and through absorption by the root system. The calculations for determining the deposition component of the concentration in the produce considers the deposition rate, an interception fraction, and removal of particulates from weathering (i.e., wind, rain, irrigation, etc.). The interception fraction corresponds to the amount of particulate depositing on the garden area that actually contacts exposed edible produce. Concentrations in the produce due to root uptake from the garden soil are estimated by multiplying a root uptake factor, which relates the concentration of a substance in plant tissue to that in soil water, by the

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estimated soil concentration. Under the CAPCOA methodology, root uptake contributes to pollutant concentrations in produce grown above, as well as below, ground. The procedure for estimating soil concentrations is the same as for the soil ingestion pathway, but assumes a 15-centimeter mixing depth (versus a one centimeter mixing depth used for soil ingestion and dermal contact exposure pathways).

Human exposure is estimated by multiplying plant concentrations by the daily ingestion rate of garden produce. CAPCOA default values for total fruit, vegetable, and grain consumption are 250 grams per day for aboveground produce and 50 grams per day for below-ground produce.

CAPCOA provides default interception fractions for leafy crops (e.g., lettuce, broccoli, spinach, etc.) and vine crops (e.g., tomatoes, beans, squash, etc.). These respective values, 20% and 10%, were weighed using the same data to determine the homegrown produce ingestion rate.

#### 3.2.5 Dermal Exposure

Dermal exposure results when soil containing deposited particulate-borne pollutants contacts the skin and these pollutants are absorbed into the body. The daily exposure rate was calculated by multiplying the soil concentration of each pollutant by an estimate of the exposed skin surface area, amount of soil on the skin, and a chemical-specific absorption rate. The CAPCOA AB 2588 guidelines provide default estimates of skin area, soil contact rate, and absorption rate. The skin area in contact with soil is consistent with the southern California climate.

#### 3.2.6 Total Exposure

The total daily exposure rate for each emitted substance is calculated by summing the individual exposure for each pathway. These total daily exposure rates are used to assess the potential health risk in Section 5.0.

#### 3.3 OFF- AND ON-CAMPUS EXPOSURE

The CAPCOA guidelines require the evaluation of potential health impacts from a facility at offsite residences and workplaces. Since the UCLA campus is not a typical "facility" with fenced boundaries, the results for this HRA are based on off- and on-campus exposure and risk calculations. The off-campus exposure was calculated similar to CAPCOA's exposure and risk calculations for a hypothetical residential maximally exposed individual (MEI). The off-campus MEI is assumed to live at the point of highest toxicity-weighted concentration of facility emissions, in a residentially zoned area, for 24 hours per day, 365 days per year, for 70 continuous years. The MEI concept ensures that exposure will not be underestimated because time spent at work, on vacation, commuting locally, or moving from one residence to another would otherwise reduce the actual exposure to emissions from the UCLA campus. The on-campus exposure was calculated the same as the off-campus exposure, but only on-campus locations characterized as sensitive receptors such as hospitals, day care centers, schools, and residential dormitories were included in the analysis. The determination of other MEIs (such as occupational) was not considered necessary in this HRA because the locations of the likely maximum impacts (i.e., east and west sides of the campus boundary) are residential areas. If one were to calculate an occupational MEI in this HRA, the results would likely be lower (<1.0 x  $10^{-6}$ ) than the health risks presented in this HRA since

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persons would only be present at occupational locations 8 hours per day (instead of 24), 260 days per year (instead of 365), for 46 years (instead of 70).

### 3.4 ZONE OF ANALYSIS

Under CAPCOA and SCAQMD guidelines, the zone of analysis (ZOA) for the carcinogenic risk assessment encompasses the area subject to an added lifetime cancer risk of greater than one in one million. In addition, the ZOA for the noncarcinogenic risk assessment encompasses the area subject to a hazard index (HI) greater than 0.5. In this HRA, some of the receptors had cancer risks greater than one in one million and, thus, a carcinogenic ZOA was defined. The carcinogenic ZOA extended off-campus approximately 1,500 meters to the east. However, all of the receptors had noncarcinogenic HIs less than 0.5. Thus, a noncarginogenic ZOA was not defined. The location of the carcinogenic ZOA is presented in Section 5.0.

#### 3.5 SENSITIVE RECEPTORS

Sensitive receptors are locations where exposed individuals may be more sensitive to health effects than the general population. CAPCOA AB 2588 guidelines define sensitive receptors as hospitals, primary and secondary schools, day care centers, and nursing homes. In this HRA, sensitive receptors were identified within the carcinogenic ZOA. The results for the sensitive receptors are presented in Section 5.0. 

Option Description	ISCST3 Model Option
Dispersion Coefficients	Urban
Vertical Potential Temperature Gradient (Kelvin/m)	0.02 for E Stability 0.035 for F Stability
Final Plume Rise	Used
Stack Tip Downwash	Used
Buoyancy – Induced Dispersion	Used
Concentrations During Calms Set	Not Used
Regulatory Default Option	Not Used
Anemometer Height	10.0 meters
Decay Coefficient	0.00
Year of Meteorology Used	1981
SCAQMD MET Designation	West LA

#### Table 3-1. Dispersion Modeling Options Used for the UCLA HRA

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Table 3-2.	Modeled Point	Source Parame	ters in the UCL	A HRA for Bo	oth Scenarios

			UTM C				Exit		
Source ID	Source Type	Location	East (m)	North (m)	Elev (m)	Stack Ht (ft)		Exit Temp (°F)	Velocity (feet/ second)
TURB1	Gas Turbine	Cogen Plant	366668	3770360	109.2	125	72	230	68
TURB2	Gas Turbine	Cogen Plant	366667	3770351	109.1	125	72	230	68
BOIL5	Boiler	Cogen Plant	366667	3770351	109.1	125	72	350	35
ICE1	ICE, Stby Gen	Ackerman Hall	366870	3770742	121.2	15	10	1020	133
ICE2	ICE, Stby Gen	Kerckhoff Hall	366896	3770670	126.6	8	8	1100	100
ICE3	ICE, Stby Gen	Covel	366349	3771026	126.5	8	8	1070	94
ICE5	ICE, Stby Gen	De Neve	366345	3770664	122.4	9	8	660	149
ICE6	ICE, Stby Gen	Hedrick Hall	366070	3771002	155.4	8	8	1050	86
ICE7	ICE, Stby Gen	Sproul Hall	366330	3770953	126.4	8	12	1020	92
ICE8	ICE, Stby Gen	Dykstra Hall	366342	3770664	122.8	8	8	1000	82
ICE9	ICE, Stby Gen	Rieber Hall	366137	3770831	143.7	8	8	1000	82
ICE10	ICE, Stby Gen	Cogen Plant	366701	3770359	108.6	50	12	915	155
ICE11	ICE, Stby Gen	Young Hall	367142	3770525	123.1	90	14	825	103
ICE16	ICE, Stby Gen	MSB	367102	3770411	122.0	114	20	825	0.003
ICE17	ICE, Stby Gen	STRB	366455	3769657	99.3	15	10	1020	133
ICE20	ICE, Stby Gen	UCPD	366725	3770411	110.6	15	10	1020	133
ICE22	ICE, Stby Gen	Medical Plaza Pk 1	366579	3770155	105.8	60	8	980	152
ICE34	ICE, Stby Gen	Gonda	366791	3770414	113.1	20	14	935	122
ICE35ª	ICE, Stby Gen	Medical Plaza	366612	3770128	105.8	90	8	705	121
ICE36	ICE, Stby Gen	Medical Plaza (Roof)	366659	3770043	104.2	48	8	1070	94
ICE38b	ICE, Stby Gen	Medical Center	367051	3770114	107.8	12	12	937	100
ICE42	ICE, Stby Gen	Medical Center #5	367004	3770310	122.5	15	12	825	137
ICE44	ICE, Stby Gen		366865	3770337	116.4	3	12	937	100
ICE46	ICE, Stby Gen	SEAS	366840	3770537	114.4	130	12	825	137
ICE48	ICE, Stby Gen	Env Svcs Fac	366466	3770471	111.0	15	8	1011	123
ICE49	ICE, Stby Gen	Phy & Ast/Knudsen	367077	3770734	131.9	15	8	1011	123
ICE50°	ICE, Stby Gen	Ambulatory	366574	3770002	104.0	15	8	1011	123
ICE51	ICE, Stby Gen	HSSRB #1	366904	3770364	119.7	15	8	1011	123
ICE52	ICE, Stby Gen	HSSRB #2	367107	3770365	119.7	15	8	1011	123
ICE53	ICE, Stby Gen	Luck Ctr	367064	3770365	121.0	15	8	1011	123
ICE54	ICE, Stby Gen	HSSRB #3	366784	3770205	111.7	15	8	1011	123
ICE55°	ICE, Stby Gen	Stein 3	366783	3770141	111.0	15	8	1011	123
	ICE, Stby Gen		366977	3770452	125.4	15	8	1011	123

<sup>a</sup>Emissions from ICE37 added to and modeled from ICE35

<sup>b</sup>Emissions from ICE39, ICE40, and ICE41 added to and modeled from ICE38 <sup>c</sup>Included in the LRDP Scenario only

## UCLA LRDP Update HRA

			UTM Coordinates						
Source ID	Source Type	Location	East (m)	North (m)	Elev (m)	Release Ht (ft)	Length (ft)	Width (ft)	Angle (deg)
DISP1	Gasoline Disp	Fleet Services	366519	3770397	110.9	3.3	48	36	9
LAB1	Lab Chem Usage	Rehab Center	366373	3769607	100.1	50		Polygon	
LAB2ª	Lab Chem Usage	Warren Hall	366286	3769794	110.3	50		Polygon	
LAB4	Lab Chem Usage	Health Sciences Area	366773	3770029	108.0	148	Polygon		
LAB5	Lab Chem Usage	Physical Sciences Area	367046	3770392	123.8	123	Polygon		
LAB9	Lab Chem Usage	Melnitz/Macgowan Halls	367203	3771274	137.6	30	Polygon		
LAB13	Lab Chem Usage	WW Hospital	366546	3770248	106.9	157		Polygon	
LAB15	Lab Chem Usage	Physics & Astronomy	367037	3770713	130.8	75	260	138	0
LAB16 <sup>b</sup>	Lab Chem Usage	Ambulatory Care	366539	3769988	104.0	30	235	93	0
LAB18	Lab Chem Usage	HSSRB #1	366895	3770342	118.5	50		Polygon	
LAB19	Lab Chem Usage	HSSRB #2	367091	3770344	119.2	40		Polygon	
LAB20	Lab Chem Usage	Luck Research Center	367053	3770344	120.9	50		Polygon	
LAB21	Lab Chem Usage	HSSRB #3	366765	3770174	110.0	50	-	Polygon	
LAB22b	Lab Chem Usage	Stein 3	366766	3770116	109.0	30		Polygon	
LAB23	Lab Chem Usage	Engr I Replacement	366807	3770565	113.2	50		Polygon	
LAB24	Lab Chem Usage	CNSI - COS	366937	3770412	122.4	30		Polygon	

Table 3-3. Modeled Area Source Parameters in the UCLA HRA for Both Scenarios

<sup>a</sup>Included in the Existing Scenario only <sup>b</sup>Included in the LRDP Scenario only

## UCLA LRDP Update HRA

Substance	ACE ID	Inhalation	Multipathway
Acetaldehyde	1	1	
Acetonitrile	191	1.	
Acrolein	3	1	
Antimony	192	1	
Arsenic	10	1	1
Benzene	13	1	
Benzyl Chloride	16	1	
Beryllium	17	1	1
Bromine Compounds	19	1	
Butadiene, 1,3-	20	1	
Butyl Alcohol, Tert-	193	1	
Cadmium	22	1	1
Carbon Tetrachloride	25	1	
Chlorobenzene	29	1	
Chloroform	30	1	
Chromium Hexavalent	36	1	1
Copper	38	1	
Dichlorobenzene, p-	48	1	
Diesel Exhaust (particulates)	194	1	
Dimethylformamide	195	1	
Dioxane, 1,4-	54	1	
Epichlorohydrin	57	1	
Ethanol	196	1	
Ethyl Acetate	197	1	
Ethyl Benzene	167	1	
Ethyl Ether	198	1	
Ethylene Dichloride	61	1	
Ethylene Glycol Butyl Ether	64	1	
Formaldehyde	70	1	
Glutaraldehyde	72	1	
Hexane	168	1	
Hydrazine	77	1	
Hydrogen Chloride	78	1	
Hydrogen Fluoride	80		
Isopropyl Alcohol	164	1	
Lead	83	1	1
	85	1	
Manganese	87		1
Mercury Compounds	88	1	
Methanol Methyl Bromido	90		
Methyl Bromide			
Methyl Tert Butyl Ether	165		
Methylene Chloride	96		
Naphthalene	110		
Nickel	111		
PAH (carcinogenic)	130		1
Perchloroethylene	122	1	
Phosgene	125	1	
Propylene	134	1	
Propylene Oxide	135	1	
Pyridine	199	1	

#### Table 3-4. Exposure Pathways Evaluated for Each Substance in Both Scenarios

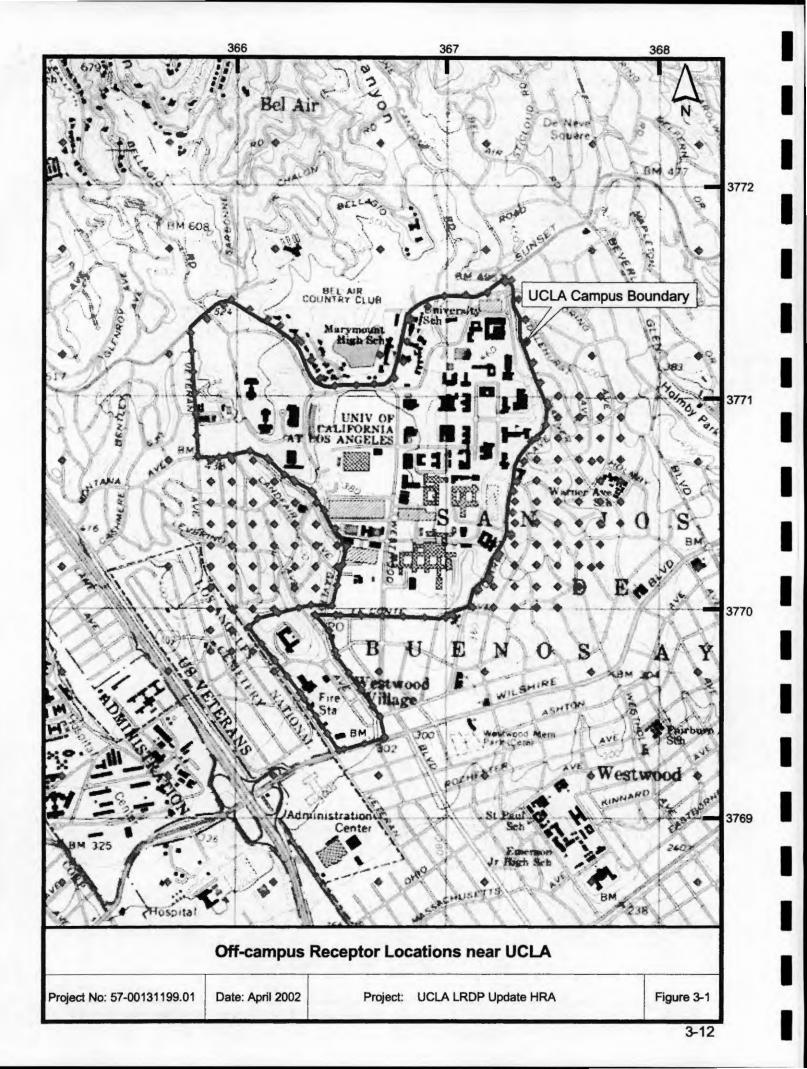
# UCLA LRDP Update HRA

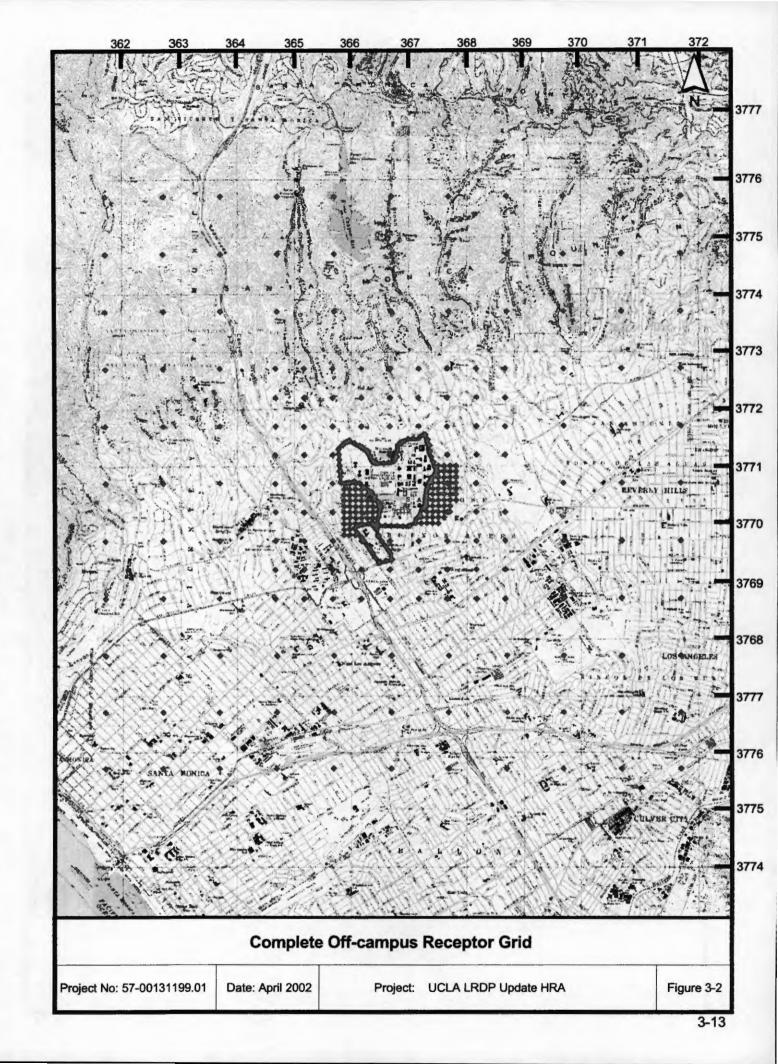
Substance	ACE ID	Inhalation	Multipathway
Selenium	137	1	
Tetrahydrofuran	200	1	
Toluene	145	1	
Trichloroethane, 1,1,1-	91	1	
Trichloroethylene	146	1	
Triethylamine	201	1	
Vinyl Chloride	149	1	
Vinylidene Chloride	150	1	
Xylenes	151	1	
Zinc	152	1	

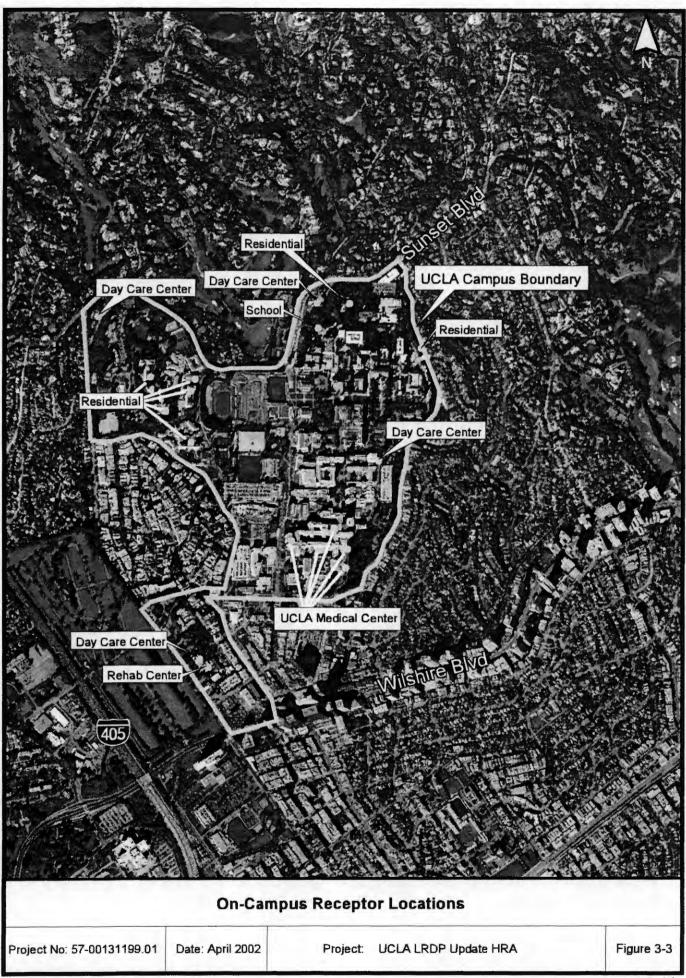
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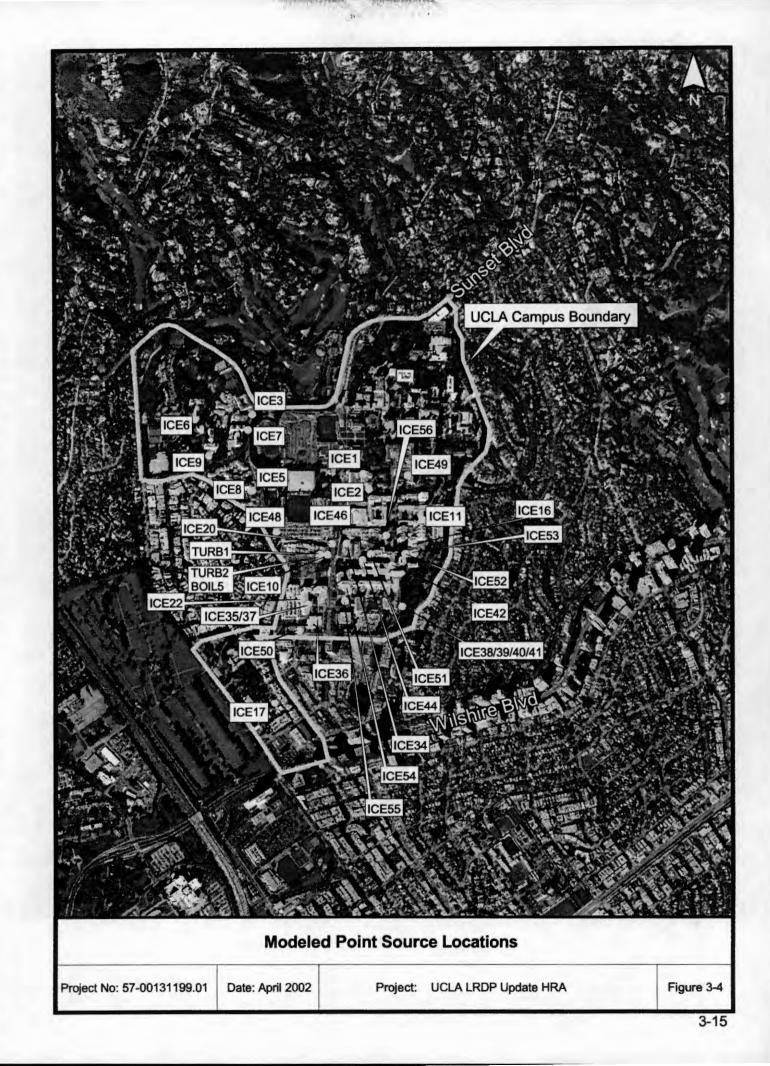
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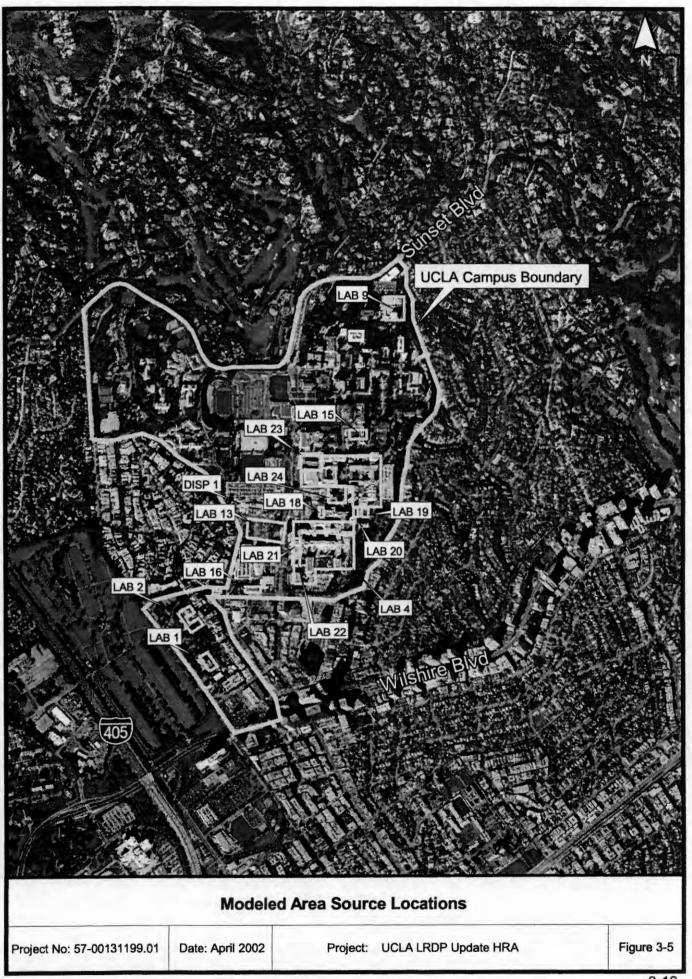
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## **REVISED DRAFT**

### UCLA LRDP Update HRA

## 4.0 DOSE-RESPONSE ASSESSMENT

Dose-response assessment has been defined as "an attempt to describe the expected human response to any given level of an exposure" (Hart and Turturro, 1986). Multiple governmental agencies and scientific organizations, such as the EPA, the National Academy of Science, the World Health Organization, and the California EPA OEHHA, have developed dose-response relationships for numerous chemicals. Doseresponse assessment can produce three factors useful in evaluating potential adverse health effects: URFs for carcinogens, chronic noncancer RELs (chronic RELs) for substances producing noncarcinogenic toxic effects over a long-term exposure period, and acute noncancer RELs (acute RELs) for acutely toxic compounds.

#### 4.1 UNIT RISK FACTORS

URFs define the theoretical risk of developing cancer as a result of continuous exposure to a carcinogen. The cancer risk resulting from low levels of exposure to a carcinogenic substance cannot be measured directly by either animal or human epidemiology studies. Therefore, mathematical models are used to extrapolate health effects observed in high dose animal studies or relatively high dose human epidemiology studies, to the low doses encountered in the environment. Generally, URFs determined from extrapolating from high to low doses represent upper-bound or worst-case estimates and are often calculated from factors estimated at 95% upper confidence limits.

The linearized multi-stage (LMS), low-dose extrapolation model is commonly used by the EPA's Carcinogen Assessment Group and California EPA to extrapolate data from animal studies to environmental exposure conditions in humans (EPA, 1986; DHS [California Department of Health Services], 1985). The LMS model estimates an upperbound estimate of risk that is consistent with health-conservative theories for mechanisms of carcinogenesis (EPA, 1986). When epidemiology data are used as the basis for estimating a URF, a variety of models are used. In all cases, the URFs are based on the assumption that any exposure to a carcinogen contributes to an individual's chance of developing cancer within a lifetime. The URFs used in this HRA are presented in Table 4-1 and are the most recent values published by OEHHA.

#### 4.2 CHRONIC NONCANCER REFERENCE EXPOSURE LEVELS

Chronic RELs define a dose at which adverse health effects would be likely if an individual were exposed continuously to that dose over a long-term exposure period. Similar to carcinogens, chronic RELs are derived from animal studies or human epidemiological data and focus on the most sensitive animal or human data set and target organ or system (i.e., liver, kidney, central nervous system, etc.). Different laboratory animals may be used to test the toxicity of a particular substance. Several different target organs are typically examined. The study yielding the lowest effect level would be used as the basis for developing the chronic REL from animal data. Chronic RELs are used to evaluate exposures to noncarcinogens as well as noncarcinogenic effects from carcinogens. The chronic RELs used in this HRA are presented in Table 4-1 and are the most recent values published by OEHHA when available.

For any chemicals without OEHHA chronic RELs, the following hierarchy was used (e.g., if not present in the first data source, then the second was used):

- EPA Region IX Preliminary Remediation Goals (PRGs) (EPA, 1999)
- The lower of Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs) or American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) (NIOSH 1997, ACGIH 1999) divided by a safety factor of 420

If the EPA PRGs were used, "child only" exposure factors were used in the calculation of chronic RELs from these data, that is, a body weight of 15 kilograms (33 pounds) and an inhalation rate of 10 m<sup>3</sup> /day. This resulted in lower chronic RELs than if adult exposure factors were used, and these lower chronic RELs were subsequently used in the 70-year exposure calculations for all receptors. This is the same approach that the EPA uses in the screening use of their PRGs to provide for a conservative calculation that is protective of children (EPA 1999).

If neither OEHHA nor EPA had published information on non-cancer chronic toxicity, a chronic REL was derived from acceptable occupational exposure standards. OSHA has established PELs typically based on an 8-hour-averaging period (working day). The ACGIH also publishes 8-hour occupational exposure limits called TLVs. In many cases, these two limits are the same for a given chemical, but in several instances, these values differ. For the purposes of this HRA, the lower of these two limits divided by a safety factor of 420 was used (again, when an OEHHA REL or EPA PRG data could not be found). This safety factor is an accepted adjustment that can be made to convert a 40-hour-per-week occupational exposure limit to a continuous 168-hour-per-week general population exposure criteria (Stokinger and Woodward, 1958). The ratio, 168/40 = 4.2 is multiplied by a 100-fold safety factor to account for increased chronic health effects on more sensitive individuals than typical healthy working adults, and a potentially increased exposure time in the general population.

#### 4.3 ACUTE NONCANCER REFERENCE EXPOSURE LEVELS

Acute health effects may result from short-term exposures that typically occur on an infrequent basis. Unlike chronic exposures, criteria for measuring acute health effects have not been standardized. Rather, several approaches may be used to establish allowable one-hour concentrations based on short-term toxicity studies in the literature. The acute RELs used in this HRA are presented in Table 4-1 and are the most recent values published by OEHHA, when available.

For any chemicals without OEHHA acute RELs, the lower of OSHA PELs or ACGIH TLVs were used. Often, when 8-hour PELs or TLVs are used as general population acute toxicity measures, no safety factors are applied since these PELs and TLVs are applicable to worker exposures of 8 hours per day, 5 days per week (ENSR, 1994). Furthermore, higher peak occupational exposures are typically allowed for short-term exposures (usually 15-minute or ceiling values), thus the use of lower 8-hour-average PELs and TLVs should be protective of one-hour acute effects in the general population. For the purposes of this health risk assessment, however, if OSHA PELs or ACGIH TLVs are used as acute toxicity measures, they were divided by a factor of 10 to provide for an additional margin of safety for sensitive members of the population, including the elderly, children, and those more susceptible.

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## UCLA LRDP Update HRA

Table 4-1. Cancer URFs and Chronic and Acute Noncancer RELs

		Can UF		Chronic N Ri		Acute Noncancer REL
Substance	ACE ID	Inhalation micrograms per cubic meter (μg/m <sup>3</sup> ) <sup>-1</sup>	Oral milligrams per kilogram per day (mg/kg-d) <sup>-1</sup>	Inhalation (μg/m³)	Oral (mg/kg-d)	Inhalation (μg/m³)
Acetaldehyde	1	2.70E-06	NA	9.00E+00	NA	NA
Acetonitrile	191	NA	NA	2.55E+01	NA	6.70E+03
Acrolein	3	NA	NA	6.00E-02	NA	1.90E-01
Antimony	192	NA	NA	2.00E-01	NA	5.00E+01
Arsenic	10	3.30E-03	1.50E+00	3.00E-02	3.00E-04	1.90E-01
Benzene	13	2.90E-05	NA	6.00E+01	NA	1.30E+03
Benzyl Chloride	16	4.90E-05	NA	1.20E+01	NA	2.40E+02
Beryllium	17	2.40E-03	NA	7.00E-03	2.00E-03	2.00E-01
Bromine Compounds	19	NA	NA	1.70E+00	NA	6.60E+01
Butadiene, 1,3-	20	1.70E-04	NA	2.00E+01	NA	NA
Butyl Alcohol, Tert-	193	NA	NA	7.14E+02	NA	3.00E+04
Cadmium	22	4.20E-03	NA	2.00E-02	5.00E-04	5.00E-01
Carbon Tetrachloride	25	4.20E-05	NA	4.00E+01	NA	1.90E+03
Chlorobenzene	29	NA	NA	1.00E+03	NA	NA
Chloroform	30	5.30E-06	NA	3.00E+02	NA	1.50E+02
Chromium Hexavalent	36	1.50E-01	4.20E-01	2.00E-01	2.00E-02	4.30E+01
Copper	38	NA	NA	2.40E+00	NA	1.00E+02
Dichlorobenzene, p-	48	1.10E-05	NA	8.00E+02	NA	6.00E+03
Diesel Exhaust (particulates)	194	3.00E-04	NA	5.00E+00	NA	NA
Dimethylformamide	195	NA	NA	8.00E+01	NA	3.00E+03
Dioxane, 1,4-	54	7.70E-06	NA	3.00E+03	NA	3.00E+03
Epichlorohydrin	57	2.30E-05	NA	3.00E+00	NA	1.30E+03
Ethanol	196	NA	NA	4.48E+03	NA	1.88E+05
Ethyl Acetate	197	NA	NA	1.35E+03	NA	1.40E+05
Ethyl Benzene	167	NA	NA	2.00E+03	NA	4.34E+04
Ethyl Ether	198	NA	NA	3.00E+02	NA	1.20E+05
Ethylene Dichloride	61	2.20E-05	NA	4.00E+02	NA	NA
Ethylene Glycol Butyl Ether	64	NA	NA	2.00E+01	NA	1.40E+04
Formaldehyde	70	6.00E-06	NA	3.00E+00	NA	9.40E+01
Glutaraldehyde	72	NA	NA	8.00E-02	NA	2.00E+01
Hexane	168	NA	NA	7.00E+03	NA	1.76E+04
Hydrazine	77	4.90E-03	NA	2.00E-01	NA	1.30E+00
Hydrogen Chloride	78	NA	NA	9.00E+00	NA	2.10E+03
Hydrogen Fluoride	80	NA	NA	5.90E+00	NA	2.40E+02
Isopropyl Alcohol	164	NA	NA	7.00E+03	NA	3.20E+03
Lead	83	1.20E-05	8.50E-03	1.50E+00	NA	6.00E+00
Manganese	85	NA	NA	2.00E-01	NA	2.00E+01
Mercury Compounds	87	NA	NA	9.00E-02	3.00E-04	1.80E+00
Methanol	88	NA	NA	4.00E+03	NA	2.80E+04

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		Cancer URF		Chronic Noncancer REL		Acute Noncancer REL	
Substance	ACE ID	Inhalation micrograms per cubic meter (µg/m <sup>3</sup> ) <sup>-1</sup>	Oral milligrams per kilogram per day (mg/kg-d) <sup>-1</sup>	inhalation (μg/m³)	Oral (mg/kg-d)	Inhalation (μg/m³)	
Methyl Bromide	90	NA	NA	5.00E+00	NA	3.90E+03	
Methyl Tert Butyl Ether	165	2.60E-07	NA	8.00E+03	NA	NA	
Methylene Chloride	96	1.00E-06	NA	4.00E+02	NA	1.40E+04	
Naphthalene	110	NA	NA	9.00E+00	NA	5.00E+03	
Nickel	111	2.60E-04	NA	5.00E-02	NA	6.00E+00	
PAH (carcinogenic)	130	1.10E-03	1.20E+01	4.80E-01	NA	2.00E+01	
Perchloroethylene	122	5.90E-06	NA	3.50E+01	NA	2.00E+04	
Phosgene	125	NA	NA	3.00E-01	NA	4.00E+00	
Propylene	134	NA	NA	3.00E+03	NA	NA	
Propylene Oxide	135	3.70E-06	NA	3.00E+01	NA	3.10E+03	
Pyridine	199	NA	NA	1.50E+00	NA	1.50E+03	
Selenium	137	NA	NA	2.00E+01	NA	2.00E+01	
Tetrahydrofuran	200	NA	NA	3.01E+02	NA	5.90E+04	
Toluene	145	NA	NA	3.00E+02	NA	3.70E+04	
Trichloroethane, 1,1,1-	91	NA	NA	1.00E+03	NA	6.80E+04	
Trichloroethylene	146	2.00E-06	NA	6.00E+02	NA	2.69E+04	
Triethylamine	201	NA	NA	7.00E+00	NA	2.80E+03	
Vinyl Chloride	149	7.80E-05	NA	2.60E+01	NA	1.80E+05	
Vinylidene Chloride	150	NA	NA	7.00E+01	NA	NA	
Xylenes	151	NA	NA	7.00E+02	NA	2.20E+04	
Zinc	152	NA	NA	3.50E+01	NA	5.00E+01	

## UCLA LRDP Update HRA

## 5.0 RISK CHARACTERIZATION

Risk characterization is the final step in the risk assessment process where the results of the exposure and dose-response assessments are combined to estimate the potential for adverse health effects. Risk analysts describe risks numerically in scientific notation, for example  $1 \times 10^{-5}$ , which means that there is one chance in 100,000 of an event occurring. The CAPCOA guidelines establish an upper threshold of 10 in one million for acceptable cancer health risk. Cancer risk is defined as the upperbound incremental probability of an individual developing cancer over a lifetime as a result of an exposure to potential carcinogens. The cancer risk level is intended to ensure a sufficient safety margin to prevent a single project or activity from causing a substantial contribution to the overall number of cancer cases in an area. It is not intended or designed to serve as a means to evaluate cumulative risk associated with multiple activities not associated with the project in question or to assess risk posed by ambient background conditions.

The conclusions of a health risk assessment must be considered in context. As a general matter, the background probability of an individual contracting cancer in one's lifetime is 333,000 in one million; that is, one in three people will contract cancer in their lifetime. This overall probability of contracting cancer can be influenced by diet, smoking, heredity, chemicals in the environment and the workplace, and other factors. Thus, the threshold of 10 excess cancer cases in one million means that the project is unlikely to cause a substantial increase in the overall number of cancer cases that would otherwise occur.

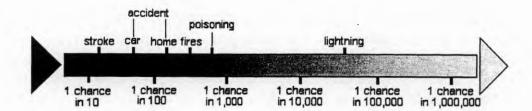
It should be recognized that when small populations are exposed, population risk estimates may be very small. For example, if 100 people are exposed to an individual lifetime cancer risk of  $1 \times 10^{-5}$ , the expected number of cases is 0.001.<sup>1</sup> For risk assessment purposes, a lifetime of exposure is considered to be 70 years, 365 days a year, 24 hours per day. It should be further recognized that a risk assessment does not calculate the exact risk for all individuals, but a hypothetical risk assuming that all of a series of "worst-case scenario" exposure assumptions apply. The chance that an individual would be exposed to any of these exposure assumptions is small, and for all assumptions even smaller (e.g. 70 years of continuously breathing air at the location of maximum impact). Thus, an individual's actual risk is likely to be significantly over-estimated by the methodology of a health risk assessment.

It is also important to place health risk and the assessment of probability in the context of daily activity. To provide an idea of the size of risks from environmental hazards, the continuum below provides risk statistics for some familiar events:

<sup>1</sup> "Guidance for Risk Characterization" US EPA Science Policy Council, February, 1995.

## UCLA LRDP Update HRA

#### **Putting Risks in Perspective**



Source: "Air Pollution and Health Risk", EPA Publication 450/3-90-022 (1991)

Health effect categories evaluated in this HRA include the following:

- Lifetime risk of developing cancer;
- Population-wide potential for developing cancer;
- · Potential for chronic or long-term noncancer effects; and
- Potential for acute or short-term noncancer effects.

#### 5.1 CANCER RISK FROM THE EXISTING SCENARIO

Lifetime cancer risk is defined as the increased chance of contracting cancer over a 70-year period as a result of exposure to a toxic substance or substances. It is the product of the estimated daily exposure of each suspected carcinogen by its respective cancer unit risk. The end result represents a worst-case or upper bound estimate of cancer risk.

Results of the cancer health effects assessment indicate that all of the cancer risks are less than 10 in one million  $(1.0 \times 10^{-5})$ . Cancer risks less than 10 in one million are considered acceptable and do not require public notification in accordance with state and local guidelines. The lifetime incremental cancer risk as a result of a lifetime exposure to emissions from the routine campus-wide operation of all sources in the Existing Scenario was estimated to be 6.3 in one million  $(6.3 \times 10^{-6})$  at the off-campus MEI and 7.3 in one million  $(7.3 \times 10^{-6})$  at the on-campus MEI. The off-campus MEI was located east of the campus along Hilgard Avenue. The on-campus MEI was located at the day care center near Franz Hall. A summary of the HRA results for the off- and on-campus MEIs in the Existing Scenario is presented in Table 5-1. The locations of the cancer, chronic, and acute noncancer off- and on-campus MEIs in the Existing Scenario are presented in Figure 5-1.

The primary source contribution to the estimated cancer risk at the off-campus MEI was the standby generator at the Cogen Plant (ICE10) with approximately 27% of the risk. Other primary source contributions included the gas turbines at the Cogen Plant (TURB1/2) with approximately 11% of the risk. The source contribution to cancer risk at the off-campus MEI in the Existing Scenario is presented in Table 5-2. The primary source contribution to the estimated cancer risk at the on-campus MEI was the standby generator at the Cogen Plant (ICE10) with approximately 34% of the risk. Other primary source contributions included the gas turbines at the Cogen Plant (TURB1/2) with approximately 14% of the risk. The source contribution to cancer risk at the on-campus MEI in the Existing Scenario is presented in Standby generator at the Cogen Plant (ICE10) with approximately 34% of the risk. Other primary source contributions included the gas turbines at the Cogen Plant (TURB1/2) with approximately 14% of the risk. The source contribution to cancer risk at the on-campus MEI in the Existing Scenario is presented in risk. The source contribution to cancer risk at the on-campus MEI in the Existing Scenario is presented in the risk.

Table 5-3. At other off- and on-campus receptor locations, different sources may contribute more significantly as the source-specific contribution is dependent on many variables such as the source to receptor distance.

The primary chemical contribution to the estimated cancer risk at the off-campus MEI was diesel exhaust with approximately 61% of the risk. Other primary chemical contributions included PAH and chloroform with approximately 10% and 8% of the risks, respectively. The chemical contribution to cancer risk at the off-campus MEI in the Existing Scenario by substance and by exposure pathway is presented in Table 5-4. The primary chemical contribution to the estimated cancer risk at the on-campus MEI was diesel exhaust with approximately 61% of the risk. Other primary chemical contributions included PAH and chloroform with approximately 61% of the risk. Other primary chemical contributions included PAH and chloroform with approximately 12% and 7% of the risks, respectively. The chemical contribution to cancer risk at the on-campus MEI in the Existing Scenario by substance and by exposure pathway is presented in Table 5-5. At other off- and on-campus receptor locations, different chemicals may contribute more significantly depending on the types of chemicals emitted by the source nearby the receptor. ACE 2588 HRA modeling results are provided in Appendix D. The electronic modeling files for this analysis are contained in Appendix E.

#### 5.2 CANCER BURDEN FROM THE EXISTING SCENARIO

Cancer burden is another measure of cancer risk and represents a worst-case estimate of the increased number of cancer cases that might occur in the exposed population as a result of emissions from routine campus-wide operations. An acceptable cancer burden threshold is 1.0 or less. Burden is estimated by multiplying the cancer risk determined at a specific location by the population residing in that location and summing those results for all populated areas within the carcinogenic ZOA. The extent of the ZOA in the Existing Scenario is presented in Figure 5-2. The population within the ZOA is approximately 79,552 people (including 19,552 residential and 60,000 employees/students). In the Existing Scenario, the mean cancer risk within the ZOA,  $3.2 \times 10^{-6}$ , was used to estimate the cancer burden. Thus, assuming that all of the residential, employee, and student population were exposed to this level of risk continuously for 70 years, the maximum potential cancer burden was determined to be 0.3 (79,552 x 3.2 x  $10^{-6} = 0.3$ ). The result suggests that the emissions from routine campus-wide operations in the Existing Scenario will not cause any additional cancer cases within the surrounding area because it is well below 1.0.

#### 5.3 NONCANCER HEALTH EFFECTS FROM THE EXISTING SCENARIO

The potential for emissions from routine campus-wide operations to cause both chronic (long-term) and acute (short-term) noncancer health effects was also assessed in this HRA. Guidance published by OEHHA and the CAPCOA AB 2588 guidelines specify which substances are to be evaluated in the noncancer effects assessment and which organ systems within the body are affected (e.g., liver, kidney, respiratory system, central nervous system, etc.).

Results of the chronic noncancer health effects assessment indicate that all of the HI values for each organ system are less than 1.0. Chronic HI values less than 1.0 indicate that noncancer effects from chronic exposure to emissions from routine campus-wide operations are unlikely. The maximum chronic HI for an organ system in the Existing Scenario was 0.11 at the off-campus MEI and 0.12 at the on-campus

MEI. The off-campus MEI was located east of the campus along Hilgard Avenue. The on-campus MEI was located at the day care center near Franz Hall. The chronic HI results for the off- and on-campus MEIs in the Existing Scenario are presented in Table 5-6.

Results of the acute noncancer health effects assessment indicate that all of the HI values for each organ system are less than 1.0. Acute HI values less than 1.0 indicate that noncancer effects from acute exposure to emissions from routine campus-wide operations are unlikely. The maximum acute HI for an organ system in the Existing Scenario was 0.15 at the off-campus MEI and 0.12 at the on-campus MEI. The off-campus MEI was located approximately 200 meters west of the campus boundary. The on-campus MEI was located at the UCLA Medical Center. The acute HI results for the off- and on-campus MEIs in the Existing Scenario are presented in Table 5-7.

### 5.4 SENSITIVE RECEPTOR IMPACTS FROM THE EXISTING SCENARIO

Five sensitive receptors were identified within the carcinogenic ZOA in the Existing Scenario. The HRA evaluated the cancer and noncancer health effects at these locations. The results showed that the potential cancer and noncancer health effects at these locations were well below the established health risk thresholds. The results for the sensitive receptors in the Existing Scenario are presented in Table 5-8. The locations of the sensitive receptors are shown in Figure 5-2.

## 5.5 CANCER RISK FROM THE LRDP SCENARIO

Results of the cancer health effects assessment indicate that all of the cancer risks are less than 10 in one million  $(1.0 \times 10^{-5})$ . The lifetime incremental cancer risk as a result of a lifetime exposure to emissions from the routine campus-wide operation of all sources in the LRDP Scenario was estimated to be 6.4 in one million  $(6.4 \times 10^{-6})$  at the off-campus MEI and 7.5 in one million  $(7.5 \times 10^{-6})$  at the on-campus MEI. The off-campus MEI was located east of the campus along Hilgard Avenue. The on-campus MEI was located at the day care center near Franz Hall. A summary of the HRA results for the off- and on-campus MEIs in the LRDP Scenario is presented in Table 5-9. The locations of the cancer, chronic, and acute noncancer off- and on-campus MEIs in the LRDP Scenario are presented in Figure 5-1.

The primary source contribution to the estimated cancer risk at the off-campus MEI was the standby generator at the Cogen Plant (ICE10) with approximately 26% of the risk. Other primary source contributions included the gas turbines at the Cogen Plant (TURB1/2) and the four standby generators (ICE38-41) at the UCLA Medical Center with approximately 11% and 7% of the risks, respectively. The source contribution to cancer risk at the off-campus MEI in the LRDP Scenario is presented in Table 5-10. The primary source contribution to the estimated cancer risk at the on-campus MEI was the standby generator at the Cogen Plant (ICE10) with approximately 34% of the risk. Other primary source contributions included the gas turbines at the Cogen Plant (TURB1/2) with approximately 13% of the risks. The source contribution to cancer risk at the on-campus MEI in the LRDP Scenario is presented in Table 5-11. At other off- and on-campus receptor locations, different sources may contribute more significantly as the source-specific contribution is dependent on many variables such as the source to receptor distance.

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The primary chemical contribution to the estimated cancer risk at the off-campus MEI was diesel exhaust with approximately 63% of the risk. Other primary chemical contributions included PAH and chloroform with approximately 10% and 8% of the risks, respectively. The chemical contribution to cancer risk at the off-campus MEI in the LRDP Scenario by substance and by exposure pathway is presented in Table 5-12. The primary chemical contribution to the estimated cancer risk at the on-campus MEI was diesel exhaust with approximately 62% of the risk. Other primary chemical contributions included PAH and chloroform with approximately 62% of the risk. Other primary chemical contributions included PAH and chloroform with approximately 12% and 7% of the risks, respectively. The chemical contribution to cancer risk at the on-campus MEI in the LRDP Scenario by substance and by exposure pathway is presented in Table 5-13. At other off- and on-campus receptor locations, different chemicals may contribute more significantly depending on the types of chemicals emitted by the source nearby the receptor. ACE 2588 HRA modeling results are provided in Appendix D. The electronic modeling files for this analysis are contained in Appendix E.

#### 5.6 CANCER BURDEN FROM THE LRDP SCENARIO

The extent of the ZOA in the LRDP Scenario is presented in Figure 5-2. The population within the ZOA is approximately 79,552 people (including 19,552 residential and 60,000 employees/students). In the LRDP Scenario, the mean cancer risk within the ZOA,  $3.2 \times 10^{-6}$ , was used to estimate the cancer burden. Thus, assuming that all of the residential, employee, and student population were exposed to this level of risk continuously for 70 years, the maximum potential cancer burden was determined to be 0.3 (79,552 x  $3.2 \times 10^{-6} = 0.3$ ). The result suggests that the emissions from routine campus-wide operations will not cause any additional cancer cases within the surrounding area because it is well below 1.0.

### 5.7 NONCANCER HEALTH EFFECTS FROM THE LRDP SCENARIO

The maximum chronic HI for an organ system in the LRDP Scenario was 0.11 at the off-campus MEI and 0.12 at the on-campus MEI. The off-campus MEI was located east of the campus along Hilgard Avenue. The on-campus MEI was located at the day care center near Franz Hall. The chronic HI results for the off-and on-campus MEIs in the LRDP Scenario are presented in Table 5-14.

The maximum acute HI for an organ system in the LRDP Scenario was 0.15 at the off-campus MEI and 0.12 at the on-campus MEI. The off-campus MEI was located approximately 200 meters west of the campus boundary. The on-campus MEI was located at the UCLA Medical Center. The acute HI results for the off-and on-campus MEIs in the LRDP Scenario are presented in Table 5-15.

## 5.8 SENSITIVE RECEPTOR IMPACTS FROM THE LRDP SCENARIO

Five sensitive receptors were identified within the carcinogenic ZOA in the LRDP Scenario. The HRA evaluated the cancer and noncancer health effects at these locations. The results showed that the potential cancer and noncancer health effects at these locations were well below the established health risk thresholds. The results for the sensitive receptors in the LRDP Scenario are presented in Table 5-16. The locations of the sensitive receptors are shown in Figure 5-2.

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Table 5-1. Summary	of HRA Results for the	Off- and On-Campus MEI	s in the Existing Scenario
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			sverse Mercator dinates		
L	Result	East (m)	North (m)	Location	
Off-campus ME	I				
Cancer Risk	6.3E-06	367313	3770554	East of campus along Hilgard Avenue	
Chronic HI	0.11	367313	3770554	East of campus along Hilgard Avenue	
Acute HI	0.15	366177	3770497	200 meters west of campus boundary	
On-campus ME	1				
Cancer Risk	7.3E-06	367182	3770618	Daycare at Franz Hall	
Chronic HI	0.12	367182	3770618	Daycare at Franz Hall	
Acute HI	0.12	367040	3770202	UCLA Medical Center	

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Rank	Source ID	Location	% of Total	Cancer Risk
1	ICE10	Cogen	26.6	1.7E-06
2	ICE38b	UCLA Med Ctr	7.3	4.6E-07
3	TURB1	Cogen	6.9	4.3E-07
4	LAB19	HSSRB #2	6.0	3.8E-07
5	ICE52	HSSRB #2	5.8	3.6E-07
6	ICE42	UCLA Med Ctr	5.4	3.4E-07
7	LAB4	Health Sciences Area	5.0	3.2E-07
8	LAB5	Physical Sciences Area	4.8	3.0E-07
9	ICE53	Luck Ctr	4.7	3.0E-07
10	TURB2	Cogen	4.0	2.5E-07
11	LAB20	Luck Ctr	2.8	1.8E-07
12	LAB24	CNSI - COS	2.8	1.8E-07
13	ICE56	CNSI - COS	2.4	1.5E-07
14	ICE51	HSSRB #1	2.2	1.4E-07
15	ICE54	HSSRB #3	1.7	1.1E-07
16	LAB21	HSSRB #3	1.5	9.3E-08
17	LAB18	HSSRB #1	1.0	6.5E-08
18	ICE48	Env Svcs Fac	0.9	5.9E-08
19	ICE16	MSB	0.6	3.7E-08
20	LAB23	Engr. I Replacement	0.6	3.5E-08
21	ICE5	De Neve	0.5	3.4E-08
22	ICE34	Gonda	0.5	3.1E-08
23	ICE49	Phy & Ast/Knudsen	0.5	3.0E-08
24	ICE35°	200 Med Plaza	0.5	3.0E-08
25	ICE44	Macdonald Lab	0.4	2.8E-08
26	LAB15	Phy & Ast/Knudsen	0.4	2.7E-08
27	ICE1	Ackerman	0.4	2.4E-08
28	ICE46	SEAS IV NW	0.4	2.3E-08
29	ICE20	UCPD NE	0.4	2.3E-08
30	ICE8	Dykstra	0.3	2.0E-08
31	ICE2	Kerckhoff	0.3	1.7E-08
32	ICE36	300 Med Plaza	0.3	1.6E-08
33	ICE17	STRB	0.3	1.6E-08
34	DISP1	Fleet Services	0.2	1.6E-08
35	ICE7	Sproul Hall	0.2	1.5E-08
36	LAB2	Warren Hall	0.2	1.5E-08
37	ICE11	Young Hall E	0.2	1.2E-08
38	ICE22	PS 1	0.2	1.0E-08
39	ICE3	Covel	0.1	8.1E-09
40	ICE9	Rieber Hall	0.1	7.4E-09
41	LAB1	Rehab Center	0.1	6.6E-09
42	ICE6	Hedrick	0.1	6.5E-09
43	LAB13	WW Hosp	0.1	5.2E-09
40	BOIL5	Cogen	0.0	2.5E-09
45	LAB9	Macgowan	0.0	1.7E-09

Table 5-2. Source Contribution to Cancer Risk at the Off-Campus MEI<sup>a</sup> in the Existing Scenario

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# UCLA LRDP Update HRA

Rank	Source ID	Location	% of Total	Cancer Risk
			Total Risk:	6.3E-06

Receptor #47 in ACE 2588 output, UTM Coordinates 367313m, 3770554m (along Hilgard Avenue)
 Emissions from ICE39, ICE40, and ICE41 added to and modeled from ICE38
 Emissions from ICE37 added to and modeled from ICE35

Table 5-3. Source Contribution to Cancer Risk at the On-Campus MEI<sup>a</sup> in the Existing Scenario

Rank	Source ID	Location	% of Total	Cancer Risk	
1	ICE10	Cogen	34.0	2.5E-06	
2	TURB2	Cogen	7.6	5.6E-07	
3	TURB1	Cogen	6.0	4.4E-07	
4	LAB24	CNSI - COS	5.6	4.1E-07	
5	LAB5	Physical Sciences Area	5.2	3.8E-07	
6	ICE56	CNSI - COS	4.9	3.6E-07	
7	LAB4	Health Sciences Area	3.6	2.6E-07	
8	ICE51	HSSRB #1	3.5	2.5E-07	
9	ICE38b	UCLA Med Ctr	3.2	2.4E-07	
10	ICE42	UCLA Med Ctr	3.1	2.3E-07	
11	ICE53	Luck Ctr	2.4	1.7E-07	
12	LAB19	HSSRB #2	2.2	1.6E-07	
13	ICE52	HSSRB #2	2.1	1.6E-07	
14	ICE54	HSSRB #3	1.9	1.4E-07	
15	LAB18	HSSRB #1	1.7	1.2E-07	
16	LAB21	HSSRB #3	1.6	1.2E-07	
17	LAB20	Luck Ctr	1.4	1.1E-07	
18	ICE48	Env Svcs Fac	1.0	7.1E-08	
19	LAB23	Engr. I Replacement	1.0	7.0E-08	
20	ICE34	Gonda	0.7	4.9E-08	
21	ICE44	Macdonald Lab	0.7	4.8E-08	
22	ICE5	De Neve	0.6	4.8E-08	
23	ICE2	Kerckhoff	0.6	4.3E-08	
24	ICE1	Ackerman	0.6	4.1E-08	
25	ICE35°	200 Med Plaza	0.6	4.1E-08	
26	ICE46	SEAS IV NW	0.4	3.3E-08	
27	ICE20	UCPD NE	0.4	3.1E-08	
28	ICE8	Dykstra	0.4	2.8E-08	
29	LAB15	Phy & Ast/Knudsen	0.3	2.5E-08	
30	ICE16	MSB	0.3	2.1E-08	
31	DISP1	Fleet Services	0.3	1.9E-08	
32	ICE7	Sproul Hall	0.3	1.9E-08	
33	ICE36	300 Med Plaza	0.2	1.8E-08	
34	LAB2	Warren Hall	0.2	1.8E-08	
35	ICE49	Phy & Ast/Knudsen	0.2	1.7E-08	
36	ICE22	PS1	0.2	1.5E-08	
37	ICE17	STRB	0.2	1.4E-08	
38	ICE11	Young Hall E	0.2	1.1E-08	
39	ICE3	Covel	0.1	1.0E-08	
40	ICE9	Rieber Hall	0.1	1.0E-08	
41	ICE6	Hedrick	0.1	7.7E-09	
42	LAB13	WW Hosp	0.1	7.7E-09	
43	LAB1	Rehab Center	0.1	6.5E-09	
44	BOIL5	Cogen	0.1	6.1E-09	
45	LAB9	Macgowan	0.0	1.4E-09	

#### UCLA LRDP Update HRA

Rank	Source ID	Location	% of Total	Cancer Risk
			Total Risk:	7.3E-06

<sup>a</sup>Receptor #7 in ACE 2588 output, UTM Coordinates 367182m, 3770618m (Daycare at Franz Hall) <sup>b</sup>Emissions from ICE39, ICE40, and ICE41 added to and modeled from ICE38 <sup>c</sup>Emissions from ICE37 added to and modeled from ICE35

### UCLA LRDP Update HRA

# Table 5-4. Cancer Risk at the Off-campus MEI by Substance and by Exposure Pathway<sup>a</sup> in the Existing Scenario

Substance	Inhalation	Dermal	Soil	Plants	Total	% of Total
Acetaldehyde	3.8E-09	0.0E+00	0.0E+00	0.0E+00	3.8E-09	0.1
Arsenic	2.0E-09	5.1E-11	2.4E-09	1.0E-09	5.5E-09	0.1
Benzene	1.9E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07	3.0
Benzyl Chloride	2.3E-09	0.0E+00	0.0E+00	0.0E+00	2.3E-09	0.0
Beryllium	2.5E-10	0.0E+00	0.0E+00	0.0E+00	2.5E-10	0.0
Butadiene, 1,3-	2.7E-09	0.0E+00	0.0E+00	0.0E+00	2.7E-09	0.0
Cadmium	4.3E-10	0.0E+00	0.0E+00	0.0E+00	4.3E-10	0.0
Carbon Tetrachloride	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07	2.6
Chloroform	5.1E-07	0.0E+00	0.0E+00	0.0E+00	5.1E-07	8.1
Chromium Hexavalent	1.5E-08	2.4E-11	1.1E-10	4.5E-11	1.6E-08	0.2
Dichlorobenzene, p-	2.4E-10	0.0E+00	0.0E+00	0.0E+00	2.4E-10	0.0
Diesel Exhaust (particulates)	3.8E-06	0.0E+00	0.0E+00	0.0E+00	3.8E-06	61.0
Dioxane, 1,4-	5.0E-08	0.0E+00	0.0E+00	0.0E+00	5.0E-08	0.8
Epichlorohydrin	1.3E-09	0.0E+00	0.0E+00	0.0E+00	1.3E-09	0.0
Ethylene Dichloride	6.4E-10	0.0E+00	0.0E+00	0.0E+00	6.4E-10	0.0
Formaldehyde	3.5E-07	0.0E+00	0.0E+00	0.0E+00	3.5E-07	5.6
Hydrazine	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07	4.3
Lead	4.9E-12	1.9E-13	9.1E-12	3.8E-12	1.8E-11	0.0
Methyl Tert Butyl Ether	2.8E-09	0.0E+00	0.0E+00	0.0E+00	2.8E-09	0.0
Methylene Chloride	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07	3.8
Nickel	5.3E-11	0.0E+00	0.0E+00	0.0E+00	5.3E-11	0.0
PAH (carcinogenic)	4.4E-08	4.2E-08	6.6E-08	4.8E-07	6.3E-07	10.0
Perchloroethylene	4.5E-09	0.0E+00	0.0E+00	0.0E+00	4.5E-09	0.1
Propylene Oxide	3.7E-09	0.0E+00	0.0E+00	0.0E+00	3.7E-09	0.1
Trichloroethylene	2.0E-09	0.0E+00	0.0E+00	0.0E+00	2.0E-09	0.0
Vinyl Chloride	3.6E-09	0.0E+00	0.0E+00	0.0E+00	3.6E-09	0.1
Total	5.7E-06	4.2E-08	6.8E-08	4.8E-07	6.3E-06	100

•Receptor #47 in ACE 2588 output, UTM Coordinates 367313m, 3770554m (along Hilgard Avenue)

# Table 5-5. Cancer Risk at the On-campus MEI by Substance and by Exposure Pathway<sup>a</sup> in the Existing Scenario

Substance	Inhalation	Dermal	Soil	Plants	Total	% of Total
Acetaldehyde	5.4E-09	0.0E+00	0.0E+00	0.0E+00	5.4E-09	0.1
Arsenic	2.9E-09	7.3E-11	3.5E-09	1.4E-09	7.9E-09	0.1
Benzene	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07	2.8
Benzyl Chloride	3.4E-09	0.0E+00	0.0E+00	0.0E+00	3.4E-09	0.0
Beryllium	3.5E-10	0.0E+00	0.0E+00	0.0E+00	3.5E-10	0.0
Butadiene, 1,3-	3.8E-09	0.0E+00	0.0E+00	0.0E+00	3.8E-09	0.1
Cadmium	6.2E-10	0.0E+00	0.0E+00	0.0E+00	6.2E-10	0.0
Carbon Tetrachloride	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07	2.4
Chloroform	5.4E-07	0.0E+00	0.0E+00	0.0E+00	5.4E-07	7.3
Chromium Hexavalent	2.2E-08	3.4E-11	1.6E-10	6.5E-11	2.2E-08	0.3
Dichlorobenzene, p-	3.5E-10	0.0E+00	0.0E+00	0.0E+00	3.5E-10	0.0
Diesel Exhaust (particulates)	4.5E-06	0.0E+00	0.0E+00	0.0E+00	4.5E-06	61.1
Dioxane, 1,4-	5.3E-08	0.0E+00	0.0E+00	0.0E+00	5.3E-08	0.7
Epichlorohydrin	1.3E-09	0.0E+00	0.0E+00	0.0E+00	1.3E-09	0.0
Ethylene Dichloride	9.2E-10	0.0E+00	0.0E+00	0.0E+00	9.2E-10	0.0
Formaldehyde	4.3E-07	0.0E+00	0.0E+00	0.0E+00	4.3E-07	5.8
Hydrazine	2.8E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07	3.9
Lead	7.1E-12	2.8E-13	1.3E-11	5.5E-12	2.6E-11	0.0
Methyl Tert Butyl Ether	3.4E-09	0.0E+00	0.0E+00	0.0E+00	3.4E-09	0.0
Methylene Chloride	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07	3.4
Nickel	7.7E-11	0.0E+00	0.0E+00	0.0E+00	7.7E-11	0.0
PAH (carcinogenic)	5.9E-08	5.7E-08	8.9E-08	6.5E-07	8.5E-07	11.6
Perchloroethylene	5.7E-09	0.0E+00	0.0E+00	0.0E+00	5.7E-09	0.1
Propylene Oxide	5.3E-09	0.0E+00	0.0E+00	0.0E+00	5.3E-09	0.1
Trichloroethylene	2.2E-09	0.0E+00	0.0E+00	0.0E+00	2.2E-09	0.0
Vinyl Chloride	5.1E-09	0.0E+00	0.0E+00	0.0E+00	5.1E-09	0.1
Total	6.5E-06	5.7E-08	9.3E-08	6.5E-07	7.3E-06	100

\*Receptor #7 in ACE 2588 output, UTM Coordinates 367182m, 3770618m (Daycare at Franz Hall)

Table 5-6.	Chronic Noncancer Hazard Index at the Off- and On-Campus MEIs in the Existing	
	Scenario	

		Off-campus	On-campus	
Target Organ	Substance	Chronic HI*	Chronic HIb	
Cardiovascular	Arsenic	2.8E-05	4.1E-05	
100	Benzene	1.1E-04	1.2E-04	
	Dioxane, 1,4-	2.2E-06	2.3E-06	
	Methylene Chloride	6.0E-04	6.3E-04	
	Nickel	4.1E-06	5.9E-06	
	Selenium	5.1E-09	7.4E-09	
	Zinc	6.4E-08	9.3E-08	
Total		7.4E-04	8.0E-04	
Central Nervous System	Arsenic	2.8E-05	4.1E-05	
	Benzene	1.1E-04	1.2E-04	
	Carbon Tetrachloride	9.9E-05	1.0E-04	
	Dichlorobenzene, p-	2.8E-08	4.0E-08	
	Hexane	6.6E-07	7.3E-07	
	Manganese	2.6E-05	3.7E-05	
	Mercury Compounds	2.0E-06	2.9E-06	
	Methyl Bromide	5.5E-02	5.8E-02	
	Methylene Chloride	6.0E-04	6.3E-04	
	Toluene	9.7E-05	1.1E-04	
	Trichloroethane, 1,1,1-	2.5E-06	2.7E-06	
	Trichloroethylene	1.7E-06	1.8E-06	
	Xylenes	1.7E-05	2.0E-05	
Total		5.6E-02	5.9E-02	
mmune	Beryllium	1.5E-05	2.1E-05	
	Triethylamine	2.8E-04	3.0E-04	
Total		3.0E-04	3.2E-04	
Kidney	Cadmium	6.3E-06	9.0E-06	
	Chlorobenzene	5.0E-08	7.2E-08	
	Chloroform	3.2E-04	3.4E-04	
	Dichlorobenzene, p-	2.8E-08	4.0E-08	
	Dioxane, 1,4-	2.2E-06	2.3E-06	
	Ethyl Benzene	6.9E-07	9.7E-07	
	Isopropyl Alcohol	2.0E-05	2.1E-05	
	Methyl Tert Butyl Ether	1.3E-06	1.7E-06	
	Perchloroethylene	2.2E-05	2.8E-05	
Total		3.7E-04	4.0E-04	
_iver	Carbon Tetrachloride	9.9E-05	1.0E-04	
	Chlorobenzene	5.0E-08	7.2E-08	
	Chloroform	3.2E-04	3.4E-04	
	Dichlorobenzene, p-	2.8E-08	4.0E-08	
	Dimethylformamide	3.2E-05	3.4E-05	
	Dioxane, 1,4-	2.2E-06	2.3E-06	
	Ethyl Benzene	6.9E-07	9.7E-07	
	Ethylene Dichloride	7.2E-08	1.0E-07	

### UCLA LRDP Update HRA

		Off-campus	On-campus	
Target Organ	Substance	Chronic HI <sup>a</sup>	Chronic HIb	
	Hydrazine	2.7E-04	2.9E-04	
	Methyl Tert Butyl Ether	1.3E-06	1.7E-06	
	Perchloroethylene	2.2E-05	2.8E-05	
	Selenium	5.1E-09	7.4E-09	
	Vinyl Chloride	1.8E-06	2.5E-06	
	Vinylidene Chloride	4.1E-07	6.0E-07	
	Zinc	6.4E-08	9.3E-08	
Total		7.6E-04	8.0E-04	
Reproductive	Arsenic	2.8E-05	4.1E-05	
	Benzene	1.1E-04	1.2E-04	
	Butadiene, 1,3-	8.0E-07	1.1E-06	
	Carbon Tetrachloride	9.9E-05	1.0E-04	
	Chlorobenzene	5.0E-08	7.2E-08	
	Chloroform	3.2E-04	3.4E-04	
	Ethyl Benzene	6.9E-07	9.7E-07	
	Isopropyl Alcohol	2.0E-05	2.1E-05	
	Methanol	1.7E-04	1.8E-04	
	Methyl Bromide	5.5E-02	5.8E-02	
	Toluene	9.7E-05	1.1E-04	
	Vinyl Chloride	1.8E-06	2.5E-06	
Total		5.6E-02	5.9E-02	
Respiratory	Acetaldehyde	1.6E-04	2.2E-04	
	Acetonitrile	1.8E-03	1.8E-03	
	Acrolein	3.7E-03	5.4E-03	
	Antimony	3.1E-06	4.4E-06	
	Benzyl Chloride	4.0E-06	5.7E-06	
	Beryllium	1.5E-05	2.1E-05	
	Bromine Compounds	3.3E-04	3.5E-04	
	Butyl Alcohol, Tert-	2.8E-04	3.0E-04	
	Cadmium	5.1E-06	7.4E-06	
	Chromium Hexavalent	5.1E-07	7.4E-07	
	Copper	1.7E-07	2.5E-07	
	Dichlorobenzene, p-	2.8E-08	4.0E-08	
	Diesel Exhaust (particulates)	2.6E-03	3.0E-03	
	Dimethylformamide	3.2E-05	3.4E-05	
	Epichlorohydrin	1.8E-05	1.9E-05	
	Ethanol	7.9E-04	8.3E-04	
	Ethyl Acetate	1.1E-04	1.1E-04	
	Ethyl Ether	2.6E-04	2.8E-04	
	Formaldehyde	2.0E-02	2.4E-02	
	Glutaraldehyde	1.5E-02	1.5E-02	
	Hydrogen Chloride	1.2E-02	1.2E-02	
	Hydrogen Fluoride	6.3E-04	6.6E-04	
	Methyl Bromide	5.5E-02	5.8E-02	

### UCLA LRDP Update HRA

		Off-campus	On-campus	
Target Organ	Substance	Chronic HI*	Chronic HIb	
	Naphthalene	6.4E-06	8.7E-06	
	Nickel	4.1E-06	5.9E-06	
	PAH (carcinogenic)	8.3E-05	1.1E-04	
	Propylene	5.6E-04	5.9E-04	
	Phosgene	1.1E-07	1.2E-07	
	Propylene Oxide	3.3E-05	4.8E-05	
	Pyridine	1.1E-03	1.2E-03	
	Selenium	5.1E-09	7.4E-09	
	Tetrahydrofuran	1.3E-04	1.3E-04	
	Toluene	9.7E-05	1.1E-04	
	Triethylamine	2.8E-04	3.0E-04	
	Xylenes	1.7E-05	2.0E-05	
	Zinc	6.4E-08	9.3E-08	
Total		1.1E-01	1.2E-01	
ye	Hydrogen Fluoride	6.3E-04	6.6E-04	
Total		6.3E-04	6.6E-04	

<sup>a</sup>Receptor #47 in ACE 2588 output, UTM Coordinates 367313m, 3770554m (along Hilgard Avenue) <sup>b</sup>Receptor #7 in ACE 2588 output, UTM Coordinates 367182m, 3770618m (Daycare at Franz Hall)

# Table 5-7. Acute Noncancer Hazard Index at the Off- and On-Campus MEIs in the Existing Scenario

		Off-campus	On-campus	
Target Organ	Substance	Acute HI <sup>a</sup>	Acute HI <sup>b</sup>	
Cardiovascular	Benzene	1.3E-03	1.3E-03	
Total		1.3E-03	1.3E-03	
Central Nervous System	Carbon Tetrachloride	2.3E-05	5.8E-05	
	Chloroform	7.0E-03	1.8E-02	
	Methanol	2.6E-04	6.8E-04	
	Methyl Bromide	7.7E-04	2.0E-03	
	Methylene Chloride	1.9E-04	4.8E-04	
	Perchloroethylene	1.5E-06	4.6E-07	
	Toluene	1.6E-04	7.1E-05	
	Trichloroethane, 1,1,1-	4.1E-07	1.0E-06	
	Triethylamine	7.6E-06	2.0E-05	
	Vinyl Chloride	1.6E-08	4.6E-09	
Total		8.4E-03	2.1E-02	
Immune	Benzene	1.3E-03	1.3E-03	
	Formaldehyde	2.0E-02	1.0E-02	
	Nickel	2.1E-06	6.2E-07	
Total		2.1E-02	1.2E-02	
Liver	Carbon Tetrachloride	2.3E-05	5.8E-05	
Total		2.3E-05	5.8E-05	
Reproductive	Arsenic	2.0E-04	5.8E-05	
	Benzene	1.3E-03	1.3E-03	
	Carbon Tetrachloride	2.3E-05	5.8E-05	
	Chloroform	7.0E-03	1.8E-02	
	Mercury Compounds	2.1E-06	6.1E-07	
	Methyl Bromide	7.7E-04	2.0E-03	
	Propylene Oxide	2.0E-05	5.8E-06	
	Toluene	1.6E-04	7.1E-05	
Total		9.4E-03	2.2E-02	
Respiratory	Acetonitrile	7.2E-05	1.9E-04	
	Acrolein	1.2E-01	9.1E-02	
1	Antimony	7.6E-07	2.2E-07	
	Benzyl Chloride	1.2E-05	3.6E-06	
	Beryllium	3.2E-05	9.2E-06	
	Bromine Compounds	9.3E-05	2.4E-04	
	Butyl Alcohol, Tert-	7.3E-05	1.9E-04	
	Cadmium	1.3E-05	3.7E-06	
	Chromium Hexavalent	1.5E-07	4.3E-08	
	Copper	2.5E-07	7.4E-08	
	Dichlorobenzene, p-	2.3E-07	6.6E-08	
	Dimethylformamide	9.2E-06	2.4E-05	
	Dioxane, 1,4-	2.4E-05	6.1E-05	
	Epichlorohydrin	4.6E-07	1.2E-06	
	Ethanol	2.0E-04	5.3E-04	

### UCLA LRDP Update HRA

	and the second second	Off-campus	On-campus	
Target Organ	Substance	Acute HI <sup>a</sup>	Acute HI <sup>b</sup>	
	Ethyl Acetate	1.1E-05	2.9E-05	
	Ethyl Benzene	1.9E-05	8.8E-06	
	Ethyl Ether	7.2E-06	1.9E-05	
	Formaldehyde	2.0E-02	1.0E-02	
	Glutaraldehyde	6.3E-04	1.6E-03	
	Hexane	2.0E-04	9.9E-05	
	Hydrazine	4.6E-04	1.2E-03	
	Hydrogen Chloride	5.4E-04	1.4E-03	
	Hydrogen Fluoride	1.7E-04	4.4E-04	
	Isopropyl Alcohol	4.8E-04	1.3E-03	
	Manganese	1.6E-05	4.6E-06	
	Methyl Bromide	7.7E-04	2.0E-03	
	Naphthalene	1.2E-05	5.7E-05	
	Nickel	2.1E-06	6.2E-07	
	PAH (carcinogenic)	2.0E-03	9.0E-03	
	Perchloroethylene	1.5E-06	4.6E-07	
	Phosgene	4.6E-04	1.2E-03	
	Propylene Oxide	2.0E-05	5.8E-06	
	Pyridine	1.2E-05	3.2E-05	
	Selenium	3.2E-07	9.2E-08	
	Tetrahydrofuran	7.0E-06	1.8E-05	
	Toluene	1.6E-04	7.1E-05	
	Trichloroethylene	4.4E-07	9.9E-07	
	Vinyl Chloride	1.6E-08	4.6E-09	
	Xylenes	9.3E-05	4.1E-05	
	Zinc	2.8E-06	8.1E-07	
Total		1.5E-01	1.2E-01	
ye	Acrolein	1.2E-01	9.1E-02	
	Benzyl Chloride	1.2E-05	3.6E-06	
	Dioxane, 1,4-	2.4E-05	6.1E-05	
	Epichlorohydrin	4.6E-07	1.2E-06	
	Formaldehyde	2.0E-02	1.0E-02	
	Hydrogen Chloride	5.4E-04	1.4E-03	
	Hydrogen Fluoride	1.7E-04	4.4E-04	
	Isopropyl Alcohol	4.8E-04	1.3E-03	
the second second	Perchloroethylene	1.5E-06	4.6E-07	
	Propylene Oxide	2.0E-05	5.8E-06	
	Selenium	3.2E-07	9.2E-08	
	Toluene	1.6E-04	7.1E-05	
	Triethylamine	7.6E-06	2.0E-05	
	Vinyl Chloride	1.6E-08	4.6E-09	
	Xylenes	9.3E-05	4.1E-05	
Total		1.4E-01	1.0E-01	

\*Receptor #316 in ACE 2588 output, UTM Coordinates 366177m, 3770497m (200m W of campus boundary) \*Receptor #3 in ACE 2588 output, UTM Coordinates 367040m, 3770202m (UCLA Medical Center)

# Table 5-8. Summary of HRA Results for the Sensitive Receptors within the ZOA in the Existing Scenario

				UTM Coordinates		Heath Risks		
Number	Description	Address	Туре	East (m)	North (m)	Cancer	Chronic HI	Acute HI
S1	Warner Avenue Elementary School	615 Holmby Ave. Los Angeles, CA 90024	School	367798	3770593	2.0E-06	0.03	0.05
S2	Westwood Unified Methodist Church Preschool	10497 Wilshire Blvd. Los Angeles, CA 90024	Day Care	367898	3770112	1.1E-06	0.02	0.04
S3	Sinai Temple Akiba Academy	10400 Wilshire Blvd. Los Angeles, CA 90024	School	368169	3770227	1.2E-06	0.02	0.04
S4	Sinai Temple Akiba Preschool	10400 Wilshire Blvd. Los Angeles, CA 90024	Day Care	368169	3770227	1.2E-06	0.02	0.04
S5	Marymount High School	10643 Sunset Blvd. Los Angeles, CA 90077	School	366716	3771216	1.6E-06	0.01	0.04

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Table 5-9. Summary of HRA Results for the Off- and On-Campus MEIs in the LRDP Scenario

	and all deficits	UTM Co	ordinates	The second second second second
	Result	East (m) North (m)		Location
Off-campus M	El			
Cancer Risk	6.4E-06	367313	3770554	East of campus along Hilgard Avenue
Chronic HI	0.11	367313	3770554	East of campus along Hilgard Avenue
Acute HI	0.15	366177	3770497	200 meters west of campus boundary
On-campus MI	El			
Cancer Risk	7.5E-06	367182	3770618	Daycare at Franz Hall
Chronic HI	0.12	367182	3770618	Daycare at Franz Hall
Acute HI	0.12	367040	3770202	UCLA Medical Center

Table 5-10. Source Contribution to Cancer Risk at the Off-Campus MEI<sup>a</sup> in the LRDP Scenario

Rank	Source ID	Location	% of Total	Cancer Risk
1	ICE10	Cogen Plant	26.2	1.7E-06
2	ICE38b	Medical Center	7.2	4.6E-07
3	TURB1	Cogen Plant	6.8	4.3E-07
4	LAB19	HSSRB #2	6.0	3.8E-07
5	ICE52	HSSRB #2	5.7	3.6E-07
6	ICE42	Medical Center #5	5.3	3.4E-07
7	ICE53	Luck Ctr	4.7	3.0E-07
8	LAB5	Physical Sciences Area	4.4	2.8E-07
9	TURB2	Cogen Plant	4.0	2.5E-07
10	LAB4	Health Sciences Area	3.0	1.9E-07
11	LAB20	Luck Research Center	2.8	1.8E-07
12	LAB24	CNSI - COS	2.8	1.8E-07
13	ICE56	CNSI - COS	2.3	1.5E-07
14	ICE51	HSSRB #1	2.2	1.4E-07
15	ICE54	HSSRB #3	1.7	1.1E-07
16	ICE55	Stein 3	1.6	1.0E-07
17	LAB21	HSSRB #3	1.5	9.3E-08
18	LAB18	HSSRB #1	1.0	6.5E-08
19	ICE50	Ambulatory	1.0	6.4E-08
20	LAB22	Stein 3	0.9	5.9E-08
21	ICE48	Env Svcs Fac	0.9	5.9E-08
22	ICE16	MSB	0.6	3.7E-08
23	LAB23	Engr I Replacement	0.6	3.5E-08
24	ICE5	De Neve	0.5	3.4E-08
25	ICE34	Gonda	0.5	3.1E-08
26	ICE49	Phy & Ast/Knudsen	0.5	3.0E-08
27	ICE35°	Medical Plaza	0.5	3.0E-08
28	ICE44	MRL	0.4	2.8E-08
29	LAB15	Physics & Astronomy	0.4	2.7E-08
30	ICE1	Ackerman Hall	0.4	2.4E-08
31	ICE46	SEAS	0.4	2.3E-08
32	ICE20	UCPD	0.4	2.3E-08
33	LAB16	Ambulatory Care	0.3	2.2E-08
34	ICE8	Dykstra Hall	0.3	2.0E-08
35	ICE2	Kerckhoff Hall	0.3	1.7E-08
36	ICE36	Medical Plaza (Roof)	0.3	1.6E-08
37	ICE17	STRB	0.2	1.6E-08
38	DISP1	Fleet Services	0.2	1.6E-08
39	ICE7	Sproul Hall	0.2	1.5E-08
40	ICE11	Young Hall	0.2	1.2E-08
41	ICE22	Medical Plaza Pk 1	0.2	1.0E-08
42	ICE3	Covel	0.1	8.1E-09
43	ICE9	Rieber Hall	0.1	7.4E-09
44	LAB1	Rehab Center	0.1	6.6E-09
45	ICE6	Hedrick Hall	0.1	6.5E-09

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Rank	Source ID	Location	% of Total	Cancer Risk
46	LAB13	WW Hospital	0.1	5.2E-09
47	BOIL5	Cogen Plant	0.0	2.5E-09
48	LAB9	Melnitz/Macgowan Halls	0.0.	1.7E-09
	J		Total Risk:	6.4E-06

•Receptor #47 in ACE 2588 output, UTM Coordinates 367313m, 3770554m (along Hilgard Avenue) •Emissions from ICE39, ICE40, and ICE41 added to and modeled from ICE38 •Emissions from ICE37 added to and modeled from ICE35

### UCLA LRDP Update HRA

Rank	Source ID	Location	% of Total	Cancer Risk
1	ICE10	Cogen Plant	33.5	2.5E-06
2	TURB2	Cogen Plant	7.5	5.6E-07
3	TURB1	Cogen Plant	5.8	4.4E-07
4	LAB24	CNSI - COS	5.5	4.1E-07
5	ICE56	CNSI - COS	4.8	3.6E-07
6	LAB5	Physical Sciences Area	4.7	3.5E-07
7	ICE51	HSSRB #1	3.4	2.5E-07
8	ICE38	Medical Center	3.2	2.4E-07
9	ICE42	Medical Center #5	3.1	2.3E-07
10	ICE53	Luck Ctr	2.3	1.7E-07
11	LAB4	Health Sciences Area	2.1	1.6E-07
12	LAB19	HSSRB #2	2.1	1.6E-07
13	ICE52	HSSRB #2	2.1	1.6E-07
14	ICE54	HSSRB #3	1.9	1.4E-07
15	LAB18	HSSRB #1	1.6	1.2E-07
16	LAB21	HSSRB #3	1.6	1.2E-07
17	ICE55	Stein 3	1.5	1.1E-07
18	LAB20	Luck Research Center	1.4	1.1E-07
19	ICE50	Ambulatory	1.1	8.0E-08
20	ICE48	Env Svcs Fac	0.9	7.1E-08
21	LAB23	Engr I Replacement	0.9	7.0E-08
22	LAB22	Stein 3	0.8	6.3E-08
23	ICE34	Gonda	0.7	4.9E-08
24	ICE44	MRL	0.6	4.8E-08
25	ICE5	De Neve	0.6	4.8E-08
26	ICE2	Kerckhoff Hall	0.6	4.3E-08
27	ICE1	Ackerman Hall	0.5	4.1E-08
28	ICE35	Medical Plaza	0.5	4.1E-08
29	ICE46	SEAS	0.4	3.3E-08
30	ICE20	UCPD	0.4	3.1E-08
31	ICE8	Dykstra Hall	0.4	2.8E-08
32	LAB15	Physics & Astronomy	0.3	2.5E-08
33	LAB16	Ambulatory Care	0.3	2.4E-08
34	ICE16	MSB	0.3	2.1E-08
35	DISP1	Fleet Services	0.3	1.9E-08
36	ICE7	Sproul Hall	0.3	1.9E-08
37	ICE36	Medical Plaza (Roof)	0.2	1.8E-08
38	ICE49	Phy & Ast/Knudsen	0.2	1.7E-08
39	ICE22	Medical Plaza Pk 1	0.2	1.5E-08
40	ICE17	STRB	0.2	1.4E-08
41	ICE11	Young Hall	0.1	1.1E-08
42	ICE3	Covel	0.1	1.0E-08
43	ICE9	Rieber Hall	0.1	1.0E-08
44	ICE6	Hedrick Hall	0.1	7.7E-09
45	LAB13	WW Hospital	0.1	7.7E-09

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Rank	Source ID	Location	% of Total	Cancer Risk
46	LAB1	Rehab Center	0.1	6.5E-09
47	BOIL5	Cogen Plant	0.1	6.1E-09
48	LAB9	Melnitz/Macgowan Halls	0.0	1.4E-09
			Total Risk:	7.5E-06

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\*Receptor #7 in ACE 2588 output, UTM Coordinates 367182m, 3770618m (Daycare at Franz Hall)

#### UCLA LRDP Update HRA

# Table 5-12. Cancer Risk at the Off-campus MEI by Substance and by Exposure Pathway<sup>a</sup> in the LRDP Scenario

Substance	Inhalation	Dermal	Soil	Plants	Total	% of Total
Acetaldehyde	3.8E-09	0.0E+00	0.0E+00	0.0E+00	3.8E-09	0.1
Arsenic	2.0E-09	5.1E-11	2.4E-09	1.0E-09	5.5E-09	0.1
Benzene	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07	2.8
Benzyl Chloride	2.3E-09	0.0E+00	0.0E+00	0.0E+00	2.3E-09	0.0
Beryllium	2.5E-10	0.0E+00	0.0E+00	0.0E+00	2.5E-10	0.0
Butadiene, 1,3-	2.7E-09	0.0E+00	0.0E+00	0.0E+00	2.7E-09	0.0
Cadmium	4.3E-10	0.0E+00	0.0E+00	0.0E+00	4.3E-10	0.0
Carbon Tetrachloride	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07	2.5
Chloroform	4.9E-07	0.0E+00	0.0E+00	0.0E+00	4.9E-07	7.6
Chromium Hexavalent	1.5E-08	2.4E-11	1.1E-10	4.5E-11	1.6E-08	0.2
Dichlorobenzene, p-	2.4E-10	0.0E+00	0.0E+00	0.0E+00	2.4E-10	0.0
Diesel Exhaust (particulates)	4.0E-06	0.0E+00	0.0E+00	0.0E+00	4.0E-06	62.7
Dioxane, 1,4-	4.8E-08	0.0E+00	0.0E+00	0.0E+00	4.8E-08	0.7
Epichlorohydrin	1.2E-09	0.0E+00	0.0E+00	0.0E+00	1.2E-09	0.0
Ethylene Dichloride	6.4E-10	0.0E+00	0.0E+00	0.0E+00	6.4E-10	0.0
Formaldehyde	3.4E-07	0.0E+00	0.0E+00	0.0E+00	3.4E-07	5.4
Hydrazine	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07	4.0
Lead	4.9E-12	1.9E-13	9.1E-12	3.8E-12	1.8E-11	0.0
Methyl Tert Butyl Ether	2.8E-09	0.0E+00	0.0E+00	0.0E+00	2.8E-09	0.0
Methylene Chloride	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07	3.6
Nickel	5.3E-11	0.0E+00	0.0E+00	0.0E+00	5.3E-11	0.0
PAH (carcinogenic)	4.4E-08	4.2E-08	6.6E-08	4.8E-07	6.4E-07	9.9
Perchloroethylene	4.4E-09	0.0E+00	0.0E+00	0.0E+00	4.4E-09	0.1
Propylene Oxide	3.7E-09	0.0E+00	0.0E+00	0.0E+00	3.7E-09	0.1
Trichloroethylene	1.9E-09	0.0E+00	0.0E+00	0.0E+00	1.9E-09	0.0
Vinyl Chloride	3.6E-09	0.0E+00	0.0E+00	0.0E+00	3.6E-09	0.1
Total	5.8E-06	4.2E-08	6.9E-08	4.8E-07	6.4E-06	100

\*Receptor #47 in ACE 2588 output, UTM Coordinates 367313m, 3770554m (along Hilgard Avenue)

## UCLA LRDP Update HRA

Table 5-13.	Cancer Risk at the On-campus MEI by Substance and by Exposure Pathway* in the
	LRDP Scenario

Substance	Inhalation	Dermal	Soil	Plants	Total	% of Total
Acetaldehyde	5.4E-09	0.0E+00	0.0E+00	0.0E+00	5.4E-09	0.1
Arsenic	2.9E-09	7.3E-11	3.5E-09	1.4E-09	7.9E-09	0.1
Benzene	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07	2.6
Benzyl Chloride	3.4E-09	0.0E+00	0.0E+00	0.0E+00	3.4E-09	0.0
Beryllium	3.5E-10	0.0E+00	0.0E+00	0.0E+00	3.5E-10	0.0
Butadiene, 1,3-	3.9E-09	0.0E+00	0.0E+00	0.0E+00	3.9E-09	0.1
Cadmium	6.2E-10	0.0E+00	0.0E+00	0.0E+00	6.2E-10	0.0
Carbon Tetrachloride	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07	2.3
Chloroform	5.2E-07	0.0E+00	0.0E+00	0.0E+00	5.2E-07	7.0
Chromium Hexavalent	2.2E-08	3.4E-11	1.6E-10	6.5E-11	2.2E-08	0.3
Dichlorobenzene, p-	3.5E-10	0.0E+00	0.0E+00	0.0E+00	3.5E-10	0.0
Diesel Exhaust (particulates)	4.7E-06	0.0E+00	0.0E+00	0.0E+00	4.7E-06	62.4
Dioxane, 1,4-	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.1E-08	0.7
Epichlorohydrin	1.3E-09	0.0E+00	0.0E+00	0.0E+00	1.3E-09	0.0
Ethylene Dichloride	9.2E-10	0.0E+00	0.0E+00	0.0E+00	9.2E-10	0.0
Formaldehyde	4.2E-07	0.0E+00	0.0E+00	0.0E+00	4.2E-07	5.6
Hydrazine	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07	3.7
Lead	7.1E-12	2.8E-13	1.3E-11	5.5E-12	2.6E-11	0.0
Methyl Tert Butyl Ether	3.4E-09	0.0E+00	0.0E+00	0.0E+00	3.4E-09	0.0
Methylene Chloride	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07	3.3
Nickel	7.7E-11	0.0E+00	0.0E+00	0.0E+00	7.7E-11	0.0
PAH (carcinogenic)	6.0E-08	5.7E-08	9.0E-08	6.5E-07	8.6E-07	11.5
Perchloroethylene	5.7E-09	0.0E+00	0.0E+00	0.0E+00	5.7E-09	0.1
Propylene Oxide	5.3E-09	0.0E+00	0.0E+00	0.0E+00	5.3E-09	0.1
Trichloroethylene	2.1E-09	0.0E+00	0.0E+00	0.0E+00	2.1E-09	0.0
Vinyl Chloride	5.1E-09	0.0E+00	0.0E+00	0.0E+00	5.1E-09	0.1
Total	6.7E-06	5.7E-08	9.3E-08	6.5E-07	7.5E-06	100

\*Receptor #7 in ACE 2588 output, UTM Coordinates 367182m, 3770618m (Daycare at Franz Hall)

## UCLA LRDP Update HRA

Table 5-14.	Chronic Noncancer Hazard Index at the Off- and On-Campus MEIs in the LRDP	
	Scenario	

		Off-campus	On-campus	
Target Organ	Substance	Chronic HI <sup>a</sup>	Chronic HI <sup>b</sup>	
Cardiovascular	Arsenic	2.8E-05	4.1E-05	
	Benzene	1.0E-04	1.1E-04	
	Dioxane, 1,4-	2.1E-06	2.2E-06	
	Methylene Chloride	5.7E-04	6.1E-04	
	Nickel	4.1E-06	5.9E-06	
	Selenium	5.1E-09	7.4E-09	
	Zinc	6.4E-08	9.3E-08	
Total		7.1E-04	7.7E-04	
Central Nervous System	Arsenic	2.8E-05	4.1E-05	
	Benzene	1.0E-04	1.1E-04	
	Carbon Tetrachloride	9.4E-05	1.0E-04	
	Dichlorobenzene, p-	2.8E-08	4.0E-08	
	Hexane	6.4E-07	7.1E-07	
	Manganese	2.6E-05	3.7E-05	
	Mercury Compounds	2.0E-06	2.9E-06	
	Methyl Bromide	5.2E-02	5.6E-02	
	Methylene Chloride	5.7E-04	6.1E-04	
	Toluene	9.4E-05	1.1E-04	
	Trichloroethane, 1,1,1-	2.4E-06	2.6E-06	
	Trichloroethylene	1.6E-06	1.7E-06	
	Xylenes	1.6E-05	1.9E-05	
Total		5.3E-02	5.7E-02	
mmune	Beryllium	1.5E-05	2.1E-05	
	Triethylamine	2.7E-04	2.8E-04	
Total		2.8E-04	3.1E-04	
Kidney	Cadmium	6.3E-06	9.0E-06	
	Chlorobenzene	5.0E-08	7.2E-08	
	Chloroform	3.1E-04	3.3E-04	
	Dichlorobenzene, p-	2.8E-08	4.0E-08	
	Dioxane, 1,4-	2.1E-06	2.2E-06	
	Ethyl Benzene	6.9E-07	9.7E-07	
	Isopropyl Alcohol	1.9E-05	2.1E-05	
	Methyl Tert Butyl Ether	1.3E-06	1.7E-06	
	Perchioroethylene	2.1E-05	2.8E-05	
Total		3.6E-04	3.9E-04	
Liver	Carbon Tetrachloride	9.4E-05	1.0E-04	
	Chlorobenzene	5.0E-08	7.2E-08	
	Chloroform	3.1E-04	3.3E-04	
	Dichlorobenzene, p-	2.8E-08	4.0E-08	
	Dimethylformamide	3.0E-05	3.2E-05	
	Dioxane, 1,4-	2.1E-06	2.2E-06	
	Ethyl Benzene	6.9E-07	9.7E-07	
	Ethylene Dichloride	7.2E-08	1.0E-07	

### UCLA LRDP Update HRA

		Off-campus	On-campus	
Target Organ	Substance	Chronic HI <sup>a</sup>	Chronic HI <sup>b</sup>	
	Hydrazine	2.6E-04	2.8E-04	
	Methyl Tert Butyl Ether	1.3E-06	1.7E-06	
	Perchloroethylene	2.1E-05	2.8E-05	
	Selenium	5.1E-09	7.4E-09	
	Vinyl Chloride	1.8E-06	2.5E-06	
	Vinylidene Chloride	4.1E-07	6.0E-07	
	Zinc	6.4E-08	9.3E-08	
Total		7.2E-04	7.7E-04	
Reproductive	Arsenic	2.8E-05	4.1E-05	
	Benzene	1.0E-04	1.1E-04	
	Butadiene, 1,3-	8.0E-07	1.1E-06	
	Carbon Tetrachloride	9.4E-05	1.0E-04	
	Chlorobenzene	5.0E-08	7.2E-08	
	Chloroform	3.1E-04	3.3E-04	
	Ethyl Benzene	6.9E-07	9.7E-07	
	Isopropyl Alcohol	1.9E-05	2.1E-05	
	Methanol	1.6E-04	1.7E-04	
	Methyl Bromide	5.2E-02	5.6E-02	
	Toluene	9.4E-05	1.1E-04	
	Vinyl Chloride	1.8E-06	2.5E-06	
Total		5.3E-02	5.7E-02	
Respiratory	Acetaldehyde	1.6E-04	2.2E-04	
	Acetonitrile	1.7E-03	1.8E-03	
	Acrolein	3.7E-03	5.4E-03	
	Antimony	3.1E-06	4.4E-06	
	Benzyl Chloride	4.0E-06	5.7E-06	
	Beryllium	1.5E-05	2.1E-05	
	Bromine Compounds	3.2E-04	3.4E-04	
	Butyl Alcohol, Tert-	2.7E-04	2.9E-04	
	Cadmium	5.1E-06	7.4E-06	
	Chromium Hexavalent	5.1E-07	7.4E-07	
	Copper	1.7E-07	2.5E-07	
	Dichlorobenzene, p-	2.8E-08	4.0E-08	
	Diesel Exhaust (particulates)	2.7E-03	3.1E-03	
	Dimethylformamide	3.0E-05	3.2E-05	
	Epichlorohydrin	1.7E-05	1.9E-05	
	Ethanol	7.5E-04	8.0E-04	
	Ethyl Acetate	1.0E-04	1.1E-04	
	Ethyl Ether	2.5E-04	2.7E-04	
	Formaldehyde	1.9E-02	2.3E-02	
	Glutaraldehyde	1.4E-02	1.5E-02	
	Hydrogen Chloride	1.1E-02	1.2E-02	
	Hydrogen Fluoride	6.0E-04	6.4E-04	
	Methyl Bromide	5.2E-02	5.6E-02	

### UCLA LRDP Update HRA

		Off-campus	On-campus Chronic HI <sup>b</sup>	
Target Organ	Substance	Chronic Hi*		
	Naphthalene	6.5E-06	8.8E-06	
	Nickel	. 4.1E-06	5.9E-06	
	PAH (carcinogenic)	8.4E-05	1.1E-04	
	Propylene	5.4E-04	5.7E-04	
	Phosgene	1.1E-07	1.2E-07	
	Propylene Oxide	3.3E-05	4.8E-05	
	Pyridine	1.1E-03	1.2E-03	
	Selenium	5.1E-09	7.4E-09	
	Tetrahydrofuran	1.2E-04	1.3E-04	
	Toluene	9.4E-05	1.1E-04	
	Triethylamine	2.7E-04	2.8E-04	
	Xylenes	1.6E-05	1.9E-05	
	Zinc	6.4E-08	9.3E-08	
Total		1.1E-01	1.2E-01	
Eye	Hydrogen Fluoride	6.0E-04	6.4E-04	
Total		6.0E-04	6.4E-04	

<sup>a</sup>Receptor #47 in ACE 2588 output, UTM Coordinates 367313m, 3770554m (along Hilgard Avenue) <sup>b</sup>Receptor #7 in ACE 2588 output, UTM Coordinates 367182m, 3770618m (Daycare at Franz Hall)

## UCLA LRDP Update HRA

Table 5-15. Acute Noncancer Hazard Index at the Off- and On-Campus MEIs in the LRDP Scenario

		Off-campus	On-campus				
Target Organ	Substance	Acute HI <sup>a</sup>	Acute HI <sup>b</sup>				
Cardiovascular	Benzene	1.2E-03	1.3E-03				
Total		1.2E-03	1.3E-03				
Central Nervous System	Carbon Tetrachloride	2.2E-05	5.8E-05				
	Chloroform	6.8E-03	1.8E-02				
	Methanol	2.5E-04	6.8E-04				
	Methyl Bromide	7.4E-04	2.0E-03				
	Methylene Chloride	1.8E-04	4.8E-04				
	Perchloroethylene	1.5E-06	4.5E-07				
	Toluene	1.6E-04	7.1E-05				
Careford and the second se	Trichloroethane, 1,1,1-	3.9E-07	1.0E-06				
	Triethylamine	7.4E-06	2.0E-05				
	Vinyl Chloride	1.6E-08	4.6E-09				
Total		8.1E-03	2.1E-02				
mmune	Benzene	1.2E-03	1.3E-03				
	Formaldehyde	2.0E-02	1.0E-02				
	Nickel	2.1E-06	6.2E-07				
Total		2.1E-02	1.2E-02				
Liver	Carbon Tetrachloride	2.2E-05	5.8E-05				
Total		2.2E-05	5.8E-05				
Reproductive	Arsenic	2.0E-04	5.8E-05				
Teproductive	Benzene	1.2E-03	1.3E-03				
	Carbon Tetrachloride	2.2E-05	5.8E-05				
	Chloroform	6.8E-03	1.8E-02				
	Mercury Compounds	2.1E-06	6.1E-02				
	Methyl Bromide	7.4E-04	2.0E-03				
	Propylene Oxide	2.0E-05	5.8E-06				
······	Toluene	1.6E-04	7.1E-05				
Total	Toldene	9.1E-03	2.2E-02				
and the second s	Acctonitile						
Respiratory	Acetonitrile	7.0E-05	1.9E-04				
	Acrolein	1.2E-01	9.1E-02				
	Antimony	7.6E-07	2.2E-07				
	Benzyl Chloride	1.2E-05	3.6E-06				
	Beryllium	3.2E-05	9.2E-06				
	Bromine Compounds	9.0E-05	2.4E-04				
	Butyl Alcohol, Tert-	7.0E-05	1.9E-04				
	Cadmium	1.3E-05	3.7E-06				
······	Chromium Hexavalent	1.5E-07	4.3E-08				
	Copper	2.5E-07	7.4E-08				
	Dichlorobenzene, p-	2.3E-07 6.6E-08					
	Dimethylformamide	8.9E-06 2.4E-					
	Dioxane, 1,4-	2.3E-05 6.1E-05					
	Epichlorohydrin	4.4E-07	1.2E-06				
	Ethanol	2.0E-04	5.3E-04				
	Ethyl Acetate	1.1E-05	2.9E-05				

#### UCLA LRDP Update HRA

	and the second sec	Off-campus	On-campus			
Target Organ	Substance	Acute HI <sup>a</sup>	Acute HI <sup>b</sup>			
	Ethyl Benzene	1.9E-05	8.8E-06			
	Ethyl Ether	6.9E-06	1.9E-05			
	Formaldehyde	2.0E-02	1.0E-02			
	Glutaraldehyde	6.1E-04	1.6E-03			
	Hexane	2.0E-04	9.9E-05			
	Hydrazine	4.4E-04	1.2E-03			
	Hydrogen Chloride	5.2E-04	1.4E-03			
	Hydrogen Fluoride	1.6E-04	4.4E-04			
	Isopropyl Alcohol	4.7E-04	1.2E-03			
	Manganese	1.6E-05	4.6E-06			
	Methyl Bromide	7.4E-04	2.0E-03			
	Naphthalene	1.2E-05	5.7E-05			
	Nickel	2.1E-06	6.2E-07			
	PAH (carcinogenic)	2.0E-03	9.0E-03			
	Perchloroethylene	1.5E-06	4.5E-07			
	Phosgene	4.4E-04	1.2E-03			
	Propylene Oxide	2.0E-05	5.8E-06			
	Pyridine	1.2E-05	3.2E-05			
	Selenium	3.2E-07	9.2E-08			
	Tetrahydrofuran	6.8E-06	1.8E-05			
	Toluene	1.6E-04	7.1E-05			
	Trichloroethylene	4.0E-07	9.8E-07			
	Vinyl Chloride	1.6E-08	4.6E-09			
	Xylenes	9.2E-05	4.1E-05			
	Zinc	2.8E-06	8.1E-07			
Total		1.5E-01	1.2E-01			
Eye	Acrolein	1.2E-01	9.1E-02			
	Benzyl Chloride	1.2E-05	3.6E-06			
	Dioxane, 1,4-	2.3E-05	6.1E-05			
	Epichlorohydrin	4.4E-07	1.2E-06			
	Formaldehyde	2.0E-02	1.0E-02			
	Hydrogen Chloride	5.2E-04	1.4E-03			
	Hydrogen Fluoride	1.6E-04	4.4E-04			
	Isopropyl Alcohol	4.7E-04	1.2E-03			
	Perchloroethylene	1.5E-06	4.5E-07			
	Propylene Oxide	2.0E-05	5.8E-06			
	Selenium	3.2E-07	9.2E-08			
	Toluene	1.6E-04	7.1E-05			
	Triethylamine	7.4E-06	2.0E-05			
	Vinyl Chloride	1.6E-08	4.6E-09			
	Xylenes	9.2E-05 4.1E-05				
Total		1.4E-01	1.0E-01			

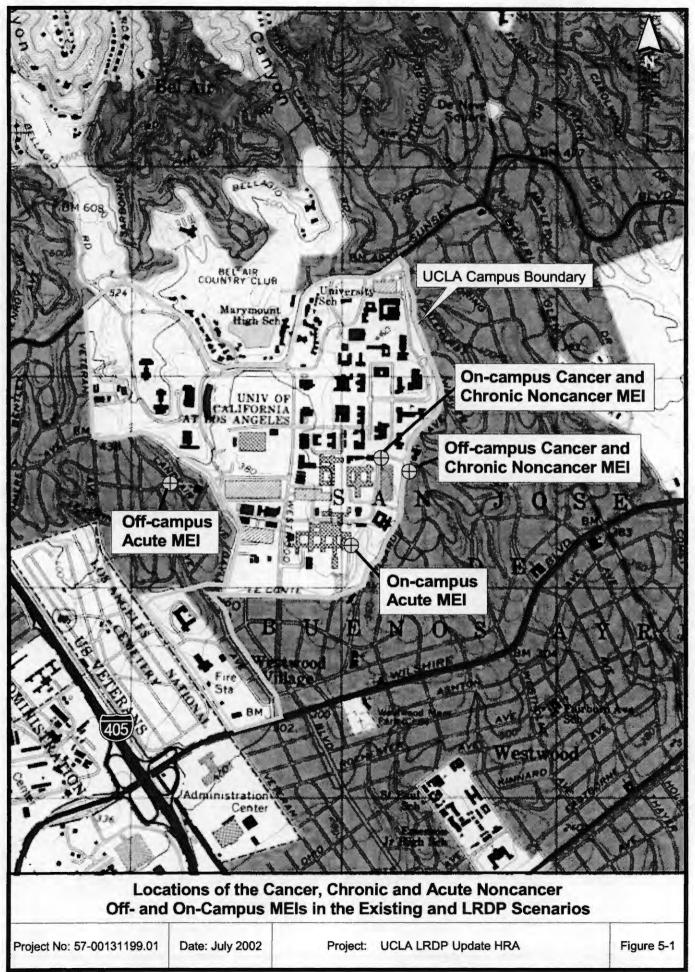
\*Receptor #316 in ACE 2588 output, UTM Coordinates 366177m, 3770497m (200m W of campus boundary) \*Receptor #3 in ACE 2588 output, UTM Coordinates 367040m, 3770202m (UCLA Medical Center)

### UCLA LRDP Update HRA

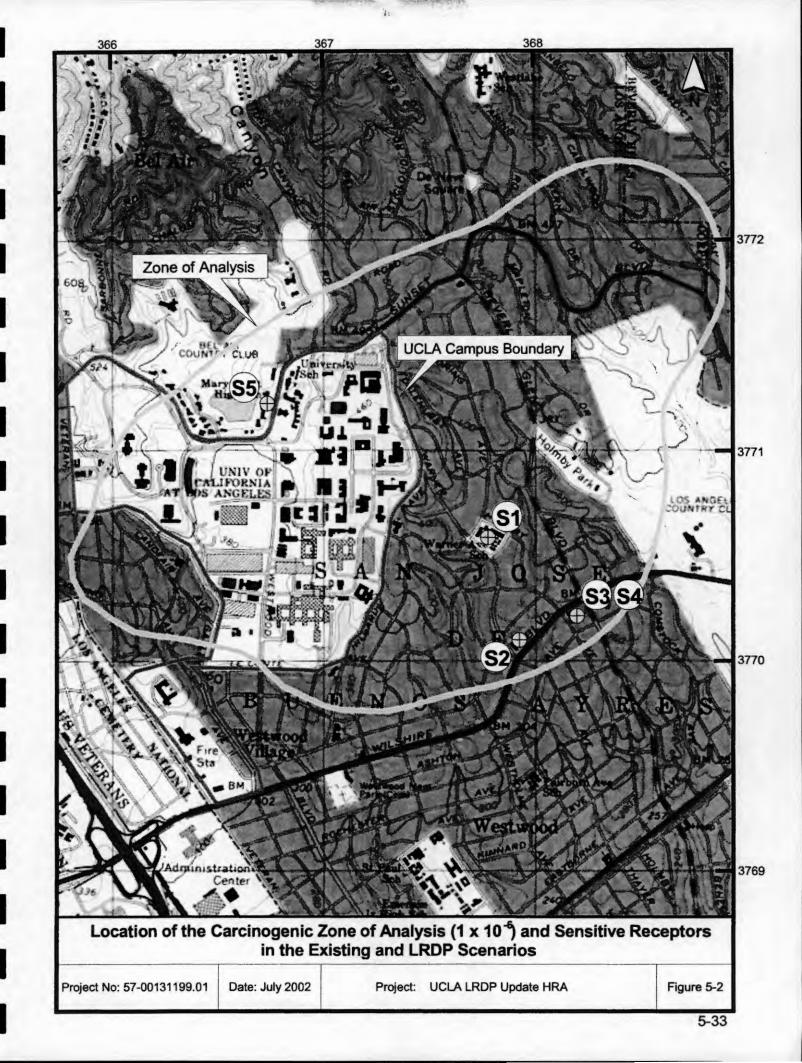
# Table 5-16. Summary of HRA Results for the Sensitive Receptors within the ZOA in the LRDP Scenario

					TM dinates	н	leath Risks	
Number	Description	Address	Туре	East (m)	North (m)	Cancer	Chronic HI	Acute HI
S1	Warner Avenue Elementary School	615 Holmby Ave. Los Angeles, CA 90024	School	367798	3770593	2.0E-06	0.03	0.05
S2	Westwood Unified Methodist Church Preschool	10497 Wilshire Blvd. Los Angeles, CA 90024	Day Care	367898	3770112	1.1E-06	0.02	0.04
S3	Sinai Temple Akiba Academy	10400 Wilshire Blvd. Los Angeles, CA 90024	School	368169	3770227	1.3E-06	0.02	0.04
S4	Sinai Temple Akiba Preschool	10400 Wilshire Blvd. Los Angeles, CA 90024	Day Care	368169	3770227	1.3E-06	0.02	0.04
S5	Marymount High School	10643 Sunset Blvd. Los Angeles, CA 90077	School	366716	3771216	1.6E-06	0.01	0.04

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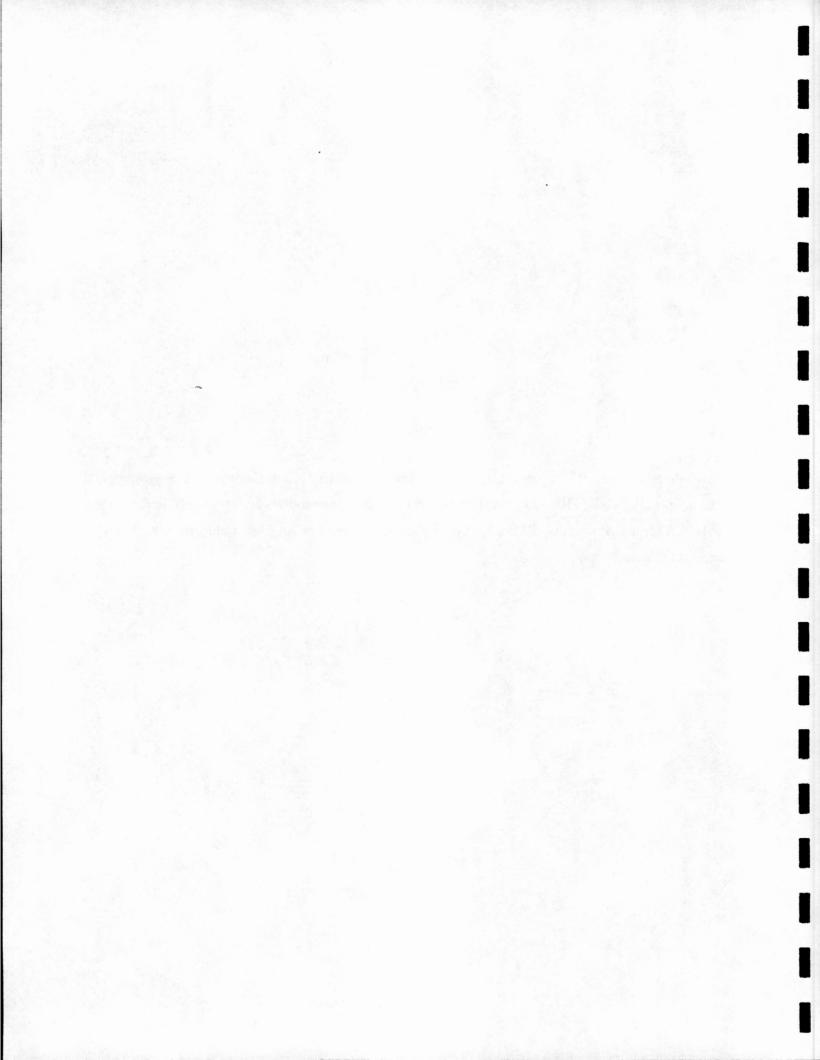
#### 6.0 REFERENCES

CAPCOA. CAPCOA Air Toxics "Hot Spots" Program, Risk Assessment Guidelines. October 1993.

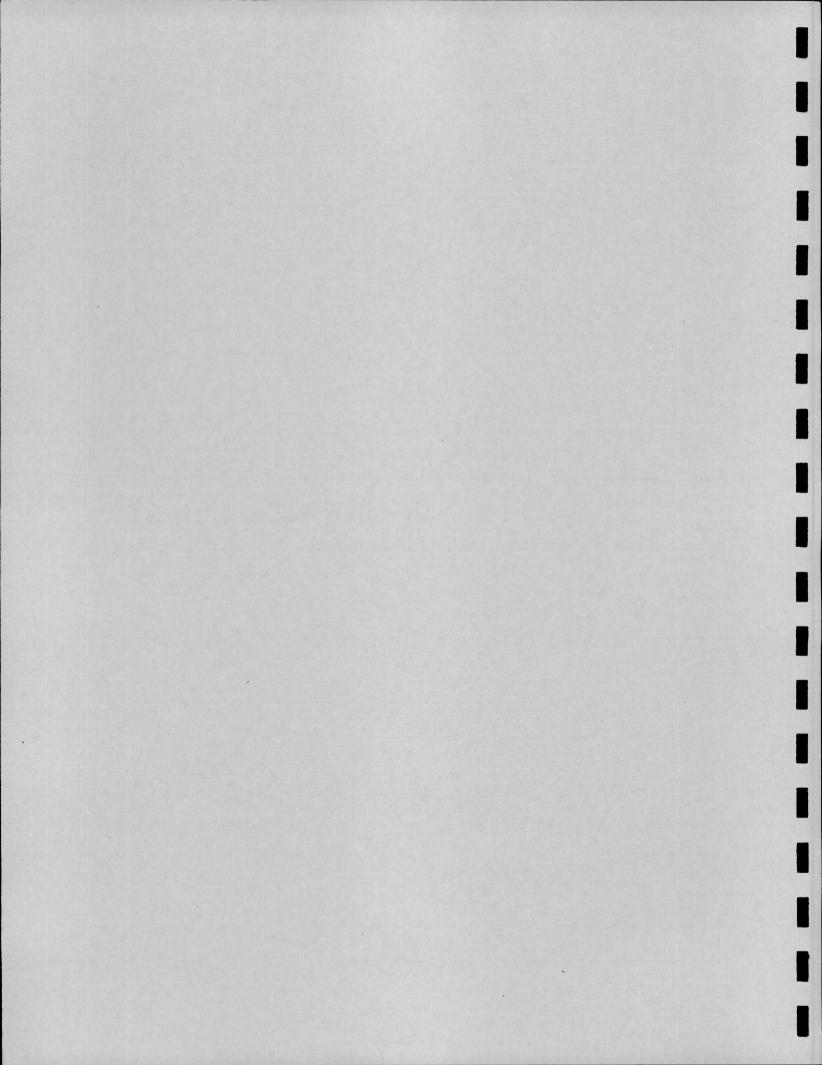
- EPA. Industrial Source Complex (ISC) Dispersion Model User's Guide, Volume 1. EPA-454/B-95-003a, 1995.
- SCAQMD. Office of Stationary Source Compliance. <u>Supplemental Guidelines for Preparing Risk</u> <u>Assessments to Comply with the Air Toxics "Hot Spots" Information and Assessment Act (AB</u> <u>2588)</u>. July 1996.

URS Corporation. UC Berkeley, Central Campus Human Health Risk Assessment. June 2000.

Appendices are available upon request. Send fax request to UCLA Campus and Environmental Planning, (310) 206-1510, and provide name and address. Appendices are also available for review at UCLA Capital Programs, 3<sup>rd</sup> floor, 1060 Veteran Avenue, Los Angeles, California 90095 during normal business hours.



Appendix 8 Noise Analysis Data



#### ON-SITE TRAFFIC NOISE LEVELS AND NOISE CONTOURS

#### Project Number: 10328-07 Project Name: UCLA LRDP

#### **Background Information**

Model Description:	FHWA H	lighway Noise I	Prediction Mo	del (FHWA
Source of Traffic Volumes: Community Noise Descriptor:		Associates	CNEL:	x
Assumed 24-Hour Traffic Distribu	tion:	Day	Evening	Night
Total ADT Volumes		77.70%	12.70%	9.60%
Medium-Duty Trucks		87.43%	5.05%	7.52%
Heavy-Duty Trucks		89.10%	2.84%	8.06%

Analysis Condition				Design		Vehic	le Mix	Distan	ice from Cer	nterline of Re	badway
Roadway Name		Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Dis	tance to Cor	ntour
Roadway Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	75 Feet	70 CNEL	65 CNEL	60 CNE
Existing Traffic Volumes (Regular	Session)										
Sunset Blvd.											
Veteran Ave. to Bellagio Rd.	4	14	36,500	35	0.5	2.0%	2.0%	68.0	55	118	255
Bellagio Rd. to Westwood B	4	14	32,900	35	0.5	2.0%	2.0%	67.5	51	110	238
Westwood Blvd. to Stone Cy	4	14	31,600	35	0.5	2.0%	2.0%	67.3	50	108	232
Stone Cyn. To Copa De Oro	4	14	29,320	35	0.5	2.0%	2.0%	67.0	47	102	220
Hilgard Ave.											
Sunset Blvd. to Wyton Dr.	4	0	13,580	30	0.5	2.0%	2.0%	63.1	26	56	120
Wyton Dr. to Westholme Ave	4	14	14,600	30	0.5	2.0%	2.0%	63.6		60	130
Westholme Ave. to Manning	4	14	18,870	30	0.5	2.0%	2.0%	64.7	33	71	154
Manning to Le Conte Ave.	4	14	17,980	30	0.5	2.0%	2.0%	64.5	32	69	149
Le Conte Ave.											
Gayley Ave. to Westwood B	2	0	12,660	30	0.5	2.0%	2.0%	62.6	24	52	111
Westwood Ave. to Tiverton /	2	0	12,840	30	0.5	2.0%	2.0%	62.6	24	52	112
Tiverton Ave. to Hilgard Ave	2	0	20,100	30	0.5	2.0%	2.0%	64.6	33	70	152
Gayley Ave.											
Le Conte Ave. to Strathmore	2	0	16.930	30	0.5	2.0%	2.0%	63.8	29	63	135
Strathmore PI, to Veteran Av	2	0	10.350	30	0.5	2.0%	2.0%	61.7	21	45	97
Veteran Ave.							,	•		10	0,
Sunset Blvd. to Gayley Ave.	2	0	12,750	35	0.5	2.0%	2.0%	63.0	26	56	120
Westwood PL.							,				120
north of Le Conte Ave.	4	0	14,800	25	0.5	2.0%	2.0%	62.2		49	105
Westwood Blvd.		•	11,000	~~	0.0	2.070	2.070	02.2		40	105
south of Sunset Blvd.	4	0	5,900	25	0.5	2.0%	2.0%	58.2		26	57
Strathmore PI.	-	0	0,000	20	0.0	2.076	2.0%	50.2		20	57
east of Gaytey Ave.	4	0	15,700	25	0.5	2.0%	2.0%	62.5		51	109
Bellagio Rd.		v	15,700	25	0.5	2.0%	2.0%	02.5	-	51	109
south of Sunset Blvd.	2	0	5,440	25	0.5	2.0%	2.0%	57.7		24	53
Stone Cayon Rd.	-	v	0,440	25	0.0	2.0%	2.0%	57.7		24	53
south of Sunset Blvd.	2	0	3.460	25	0.5	2.0%	2.00/				
Wyton Dr.	2	0	3,400	20	0.5	2.0%	2.0%	55.7		18	39
	2	0	6.000	25	0.5	2.00	0.004	F. 4		~	
west of Hilgard Ave.	2	0	6,000	25	0.5	2.0%	2.0%	58.1	12	26	56
Westholme Ave.	-	•	7 000	05		0.001					
west of Hilgard Ave.	2	0	7,390	25	0.5	2.0%	2.0%	59.0	14	30	64

Analysis Condition				Design		Vehic	le Mix	Distar	ce from Cer	nterline of Re	badway
Roadway Name		Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at		tance to Cor	
Roadway Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	75 Feet	70 CNEL	65 CNEL	60 CNE
Existing Traffic Volumes (Summer Sunset Blvd.	Session)										
Veteran Ave. to Bellagio Rd.	4	14	36,020	35	0.5	2.0%	2.0%	67.9	54	117	253
Bellagio Rd. to Westwood B	4	14	31.360	35	0.5	2.0%	2.0%	67.3	50	107	230
Westwood Blvd. to Stone C)	4	14	30,700	35	0.5	2.0%	2.0%	67.2	49	105	227
Stone Cyn. To Copa De Oro	4	14	29.070	35	0.5	2.0%	2.0%	67.0	47	102	219
Hilgard Ave.											215
Sunset Blvd. to Wyton Dr.	4	0	12,930	30	0.5	2.0%	2.0%	62.8	25	54	116
Wyton Dr. to Westholme Av	4	14	13,980	30	0.5	2.0%	2.0%	63.4	-	58	126
Westholme Ave. to Manning	4	14	14,490	30	0.5	2.0%	2.0%	63.5		60	129
Manning to Le Conte Ave.	4	14	14,530	30	0.5	2.0%	2.0%	63.5	-	60	129
Le Conte Ave.							2.070	00.0		00	123
Gayley Ave. to Westwood Bl	2	0	12.010	30	0.5	2.0%	2.0%	62.3	23	50	108
Westwood Ave. to Tiverton /	2	0	12.210	30	0.5	2.0%	2.0%	62.4	23	50	109
Tiverton Ave. to Hilgard Ave	2	0	8,870	30	0.5	2.0%	2.0%	61.0	19	41	88
Gayley Ave.											00
Le Conte Ave. to Strathmore	2	0	16,120	30	0.5	2.0%	2.0%	63.6	28	61	131
Strathmore PI, to Veteran Av	2	0	11,680	30	0.5	2.0%	2.0%	62.2	23	49	106
Veteran Ave.										10	100
Sunset Blvd. to Gayley Ave.	2	0	14,910	35	0.5	2.0%	2.0%	63.7	29	62	133
Westwood PL.										UL.	100
north of Le Conte Ave.	4	0	16,600	25	0.5	2.0%	2.0%	62.7	24	53	113
Westwood Blvd											
south of Sunset Blvd.	4	0	4,960	25	0.5	2.0%	2.0%	57.5	-		51
Strathmore PI.											
east of Gayley Ave.	4	0	10,520	25	0.5	2.0%	2.0%	60.7		39	84
Bellagio Rd.											01
south of Sunset Blvd.	2	0	4.310	25	0.5	2.0%	2.0%	56.7		21	45
Stone Cayon Rd.											-10
south of Sunset Blvd.	2	0	2.850	25	0.5	2.0%	2.0%	54.9		16	34
Wyton Dr.			-					••			
west of Hilgard Ave.	2	0	4,910	25	0.5	2.0%	2.0%	57.2		23	49
Westholme Ave.			of the second								
west of Hilgard Ave.	2	0	6.120	25	0.5	2.0%	2.0%	58.2	12	26	57

Analysis Condition				Design			le Mix		ice from Cer		
Roadway Name		Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at		tance to Cor	
Roadway Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	75 Feet	70 CNEL	65 CNEL	60 CNE
Future Plus Project Traffic Volume	s (Regular	Session)									
Sunset Blvd.											
Veteran Ave. to Bellagio Rd.	4	14	38,460	35	0.5	2.0%	2.0%	68.2	57	123	264
Bellagio Rd. to Westwood B	4	14	35,620	35	0.5	2.0%	2.0%	67.9	54	116	251
Westwood Blvd. to Stone C)	4	14	33,750	35	0.5	2.0%	2.0%	67.6	52	112	242
Stone Cyn. To Copa De Oro	4	14	31,930	35	0.5	2.0%	2.0%	67.4	50	108	233
Hilgard Ave.											
Sunset Blvd. to Wyton Dr.	4	0	14,840	30	0.5	2.0%	2.0%	63.4	27	59	127
Wyton Dr. to Westholme Av	4	14	17,630	30	0.5	2.0%	2.0%	64.4	32	68	147
Westholme Ave. to Manning	4	14	20,230	30	0.5	2.0%	2.0%	65.0	35	75	161
Manning to Le Conte Ave.	4	14	20,510	30	0.5	2.0%	2.0%	65.0	35	75	162
Le Conte Ave.											
Gayley Ave. to Westwood BI	2	0	14,380	30	0.5	2.0%	2.0%	63.1	26	56	121
Westwood Ave. to Tiverton /	2	0	15,240	30	0.5	2.0%	2.0%	63.4	27	59	126
Tiverton Ave. to Hilgard Ave	2	0	12,640	30	0.5	2.0%	2.0%	62.6	24	52	111
Gayley Ave.											
Le Conte Ave. to Strathmore	2	0	17,980	30	0.5	2.0%	2.0%	64.1	30	65	141
Strathmore PI. to Veteran Av	2	0	11,710	30	0.5	2.0%	2.0%	62.2	23	49	106
Veteran Ave.											
Sunset Blvd. to Gayley Ave.	2	0	12,220	35	0.5	2.0%	2.0%	62.9	25	54	116
Westwood Pl.											
north of Le Conte Ave.	4	0	16,690	25	0.5	2.0%	2.0%	62.7	25	53	114
Westwood PI.											
south of Sunset Blvd.	4	0	6,360	25	0.5	2.0%	2.0%	58.5	-	28	60
Strathmore Pl.											
east of Gayley Ave.	4	0	17,770	25	0.5	2.0%	2.0%	63.0	26	55	119
Bellagio Rd.											
south of Sunset Blvd.	2	0	5,890	25	0.5	2.0%	2.0%	58.0		26	55
Stone Cayon Rd.											
south of Sunset Blvd.	2	0	3,680	25	0.5	2.0%	2.0%	56.0		19	40
Wyton Dr.											
west of Hilgard Ave.	2	0	7,270	25	0.5	2.0%	2.0%	58.9	14	30	64
Westholme Ave.											
west of Hilgard Ave.	2	0	8,570	25	0.5	2.0%	2.0%	59.7	15	33	71

Analysis Condition				Design		Vehic	le Mix	Distan	ce from Cer	nterline of Re	oadway
Roadway Name		Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Dis	tance to Con	ntour
Roadway Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	75 Feet	70 CNEL	65 CNEL	60 CNE
Future Plus Project Traffic Volume: Sunset Blvd.	s (Summe	r Session)									
Veteran Ave. to Bellagio Rd.	4	14	40,710	35	0.5	2.0%	2.0%	68.4	59	127	274
Bellagio Rd. to Westwood B	4	14	34,720	35	0.5	2.0%	2.0%	67.8	53	114	247
Westwood Blvd. to Stone Cy	4	14	33,840	35	0.5	2.0%	2.0%	67.6	52	113	242
Stone Cyn. To Copa De Oro	4	14	32,570	35	0.5	2.0%	2.0%	67.5	51	110	236
Hilgard Ave.						2.070	2.070	01.0			200
Sunset Blvd. to Wyton Dr.	4	0	14,960	30	0.5	2.0%	2.0%	63.5	28	59	128
Wyton Dr. to Westholme Ave	4	14	17,550	30	0.5	2.0%	2.0%	64.4	32	68	146
Westholme Ave. to Manning	4	14	16.560	30	0.5	2.0%	2.0%	64.1		65	141
Manning to Le Conte Ave.	4	14	17,320	30	0.5	2.0%	2.0%	64.3	31	67	145
Le Conte Ave.									•.		140
Gayley Ave, to Westwood Bl	2	0	13,550	30	0.5	2.0%	2.0%	62.9	25	54	117
Westwood Ave. to Tiverton /	2	0	14.480	30	0.5	2.0%	2.0%	63.2	26	57	122
Tiverton Ave. to Hilgard Ave	2	0	11,880	30	0.5	2.0%	2.0%	62.3	23	50	107
Gavley Ave.											101
Le Conte Ave. to Strathmore	2	0	18.020	30	0.5	2.0%	2.0%	64.1	30	65	141
Strathmore Pl. to Veteran Av	2	0	13,570	30	0.5	2.0%	2.0%	62.9	25	54	117
Veteran Ave.	-										
Sunset Blvd. to Gayley Ave.	2	0	14,160	35	0.5	2.0%	2.0%	63.5	28	60	128
Westwood PL.	-					2.070	2.070				120
north of Le Conte Ave.	4	0	20,250	25	0.5	2.0%	2.0%	63.6	28	60	130
Westwood Blvd					0.0	2.070	1.070	00.0	20		100
south of Sunset Blvd.	4	0	6.180	25	0.5	2.0%	2.0%	58.4		27	59
Strathmore PI.		-	-,								00
east of Gayley Ave.	4	0	13,120	25	0.5	2.0%	2.0%	61.7		45	97
Bellagio Rd.								•			
south of Sunset Blvd.	2	0	5,170	25	0.5	2.0%	2.0%	57.5		24	51
Stone Cayon Rd.											
south of Sunset Blvd.	2	0	3,290	25	0.5	2.0%	2.0%	55.5	-	17	38
Wyton Dr.											
west of Hilgard Ave.	2	0	6,360	25	0.5	2.0%	2.0%	58.4	13	27	58
Westholme Ave.	-		-,								
west of Hilgard Ave.	2	0	7.460	25	0.5	2.0%	2.0%	59.1	14	30	65

<sup>1</sup> Distance is from the centerline of the roadway segment to the receptor location. "-" = contour is located within the roadway lanes.

#### OFF-SITE TRAFFIC NOISE LEVELS

Project Number: 10328-07 Project Name: UCLA LRDP Update

#### Background Information

Source of Traffic Volumes: Community Noise Descriptor:

Model Description: Analysis Scenario(s): FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels. Existing and Future Traffic Volumes Crain & Associates Lan: \_\_\_\_\_\_ CNEL: \_\_\_\_\_

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Roadway Name Roadway Segment L Existing Traffic Volumes (Regular Session) Wilshire Boulevard Giendon Ave. to Malcolm Ave. Malcolm Ave. to Wastholme Ave. Westholme Ave. to Warner Ave. Westholme Ave. to Warner Ave. Warner Ave. to Beverly Gien Ave. east of Beverly Gien Bivd. Sunset Boulevard west of Church St. Church St. to Sepuiveda Bivd. Sepuiveda Bivd. to Veteran Ave. Veteran Ave. to Beilagio Rd. Beilagio Rd. to Westwood Bivd. Westwood Bivd. to Stone Cyn. Westwood Bivd. to Stone Cyn. Westwood Bivd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bei-Air Rd. Bei-Air Rd. to Beverly Gien Bivd. east of Beverly Gien Bivd. east of Beverly Gien Bivd. Hilgard Avenue Sunset Bivd. to Wyton Dr. Wyton Dr. to Westholme Ave.	Land Use Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Single Family Single Family	Lanes 6 6 6 6 6 6 6 4 4 4 4 4 4 4 4 4 4	Median Width 14 14 14 14 14 14 14 14 14 14 14	Hour Volume 4,464 4,592 4,596 4,593 4,593 4,250 4,072 3,527 3,390	ADT Volume 44,640 45,920 45,960 45,930 45,930 45,930 42,500 40,720	Speed (mph) 30 35 35 35 35 35 35 35	Center to Receptor' 150 150 150 100 100 80 80	Alpha Factor 0 0 0 0.5 0 0.5	Attn. dB(A) 0 0 0 0 0 0 0	Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0%	Heavy Trucks 2.0% 2.0% 2.0% 2.0%	dB(A) L <sub>eq</sub> 67.7 68.5 68.5 68.5	66.1 66.6 66.6 66.6 67.2
Witshire Boulevard Glendon Ave. to Malcolm Ave. Malcolm Ave. to Westholme Ave. Westholme Ave. to Wamer Ave. Westholme Ave. to Wamer Ave. Wamer Ave. to Beverly Glen Ave. Wamer Ave. to Beverly Glen Ave. east of Beverly Glen Bivd. Sunset Boulevard west of Church St. Church St. to Sepulveda Bivd. Sepulveda Bivd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Bivd. Westwood Bivd. to Stone Cyn. Westwood Bivd. to Stone Cyn. Westwood Bivd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Bivd. east of Beverly Glen Bivd. east of Beverly Glen Bivd. Bunset Bivd. to Wyton Dr.	Multi-Family Multi-Family Church Multi-Family Church Multi-Family Single Family Single Family Single Family Single Family Single Family Single Family School School Single Family	6 6 6 6 4 4	14 14 14 14 14 14 14 14 14 14	4,592 4,596 4,596 4,593 4,593 4,250 4,072 3,527	45,920 45,960 45,960 45,930 45,930 42,500 40,720	35 35 35 35 35 35 35	150 150 100 100 80	0 0.5 0 0.5	0 0 0 0	2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0%	67.7 68.5 68.5 69.1	66.6 66.6
Wilshire Boulevard Glendon Ave. to Malcolm Ave. Malcolm Ave. to Westholme Ave. Westholme Ave. to Wamer Ave. Westholme Ave. to Wamer Ave. Wamer Ave. to Beverly Glen Ave. Wamer Ave. to Beverly Glen Ave. east of Beverly Glen Blvd. Sunset Boulevard west of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. east of Beverly Glen Blvd. Bunset Blvd. to Wyton Dr.	Multi-Family Multi-Family Church Multi-Family Church Multi-Family Single Family Single Family Single Family Single Family Single Family Single Family School School Single Family	6 6 6 6 4 4	14 14 14 14 14 14 14 14 14 14	4,592 4,596 4,596 4,593 4,593 4,250 4,072 3,527	45,920 45,960 45,960 45,930 45,930 42,500 40,720	35 35 35 35 35 35 35	150 150 100 100 80	0 0.5 0 0.5	0 0 0 0	2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0%	68.5 68.5 69.1	66.6 66.6
Malcolm Ave. to Westholme Ave. Westholme Ave. to Wamer Ave. Wamer Ave. to Baver Ave. Wamer Ave. to Beverly Glen Ave. east of Beverly Glen Blvd. Sunset Boulevard west of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. east of Beverly Glen Blvd. Bunset Blvd. to Wyton Dr.	Multi-Family Multi-Family Church Multi-Family Church Multi-Family Single Family Single Family Single Family Single Family Single Family Single Family School School Single Family	6 6 6 6 4 4	14 14 14 14 14 14 14 14 14 14	4,592 4,596 4,596 4,593 4,593 4,250 4,072 3,527	45,920 45,960 45,960 45,930 45,930 42,500 40,720	35 35 35 35 35 35 35	150 150 100 100 80	0 0.5 0 0.5	0 0 0 0	2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0%	68.5 68.5 69.1	66.6 66.6
Westholme Ave. to Warner Ave. Westholme Ave. to Warner Ave. Warner Ave. to Beverly Glen Ave. Warner Ave. to Beverly Glen Ave. east of Beverly Glen Blvd. Sunset Boulevard west of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. Hillgard Avenue Sunset Blvd. to Wyton Dr.	Multi-Family Church Multi-Family Church Multi-Family Single Family Single Family Single Family Single Family Single Family Single Family School Single Family Single Family	6 6 6 6 4 4	14 14 14 14 14 14 14 14 14	4,596 4,596 4,593 4,593 4,250 4,072 3,527	45,960 45,960 45,930 45,930 42,500 40,720	35 35 35 35 35	150 100 100 80	0 0.5 0 0.5	0 0 0	2.0% 2.0% 2.0%	2.0% 2.0%	68.5 69.1	66.6
Westholme Ave. to Warner Ave. Warner Ave. to Beverly Glen Ave. Warner Ave. to Beverly Glen Ave. east of Beverly Glen Blvd. Sunset Boulevard west of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. Hillgard Avenue Sunset Blvd. to Wyton Dr.	Church Multi-Family Church Multi-Family Single Family Single Family Single Family Single Family Single Family Single Family School Single Family Single Family	6 6 6 4 4	14 14 14 14 14 14 14 14 14	4,596 4,593 4,593 4,250 4,072 3,527	45,960 45,930 45,930 42,500 40,720	35 35 35 35	100 100 80	0.5 0 0.5	0	2.0% 2.0%	2.0%	69.1	
Warrer Ave. to Beverly Glen Ave. Warrer Ave. to Beverly Glen Ave. east of Beverly Glen Blvd. Sunset Boulevard west of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. Hillgard Avenue Sunset Blvd. to Wyton Dr.	Multi-Family Church Multi-Family Single Family Single Family Single Family Single Family Single Family School School Single Family Single Family	6 6 6 4 4	14 14 14 14 14 14 14	4,593 4,593 4,250 4,072 3,527	45,930 45,930 42,500 40,720	35 35 35	100 80	0 0.5	0	2.0%			67 3
Warner Ave. to Beverly Glen Ave. east of Beverly Glen Blvd. Sunset Boulevard west of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. Hillgard Avenue Sunset Blvd. to Wyton Dr.	Church Multi-Family Single Family Single Family Single Family Single Family Single Family School School Single Family Single Family	6 6 4 4	14 14 14 14 14 14	4,593 4,250 4,072 3,527	45,930 42,500 40,720	35 35	80	0.5	-		2.0%		01.2
east of Beverly Glen Bivd. Sunset Boulevard west of Church St. Church St. to Sepulveda Bivd. Sepulveda Bivd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Bivd. Westwood Bivd. to Stone Cyn. Westwood Bivd. to Stone Cyn. Westwood Bivd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Bivd. east of Beverly Glen Bivd. Hilgard Avenue Sunset Bivd. to Wyton Dr.	Multi-Family Single Family Single Family Single Family Single Family Single Family School School Single Family Single Family	6 4 4	14 14 14 14 14	4,250 4,072 3,527	42,500 40,720	35			0			70.5	68.6
Sunset Boulevard west of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. Hillgard Avenue Sunset Blvd. to Wyton Dr.	Single Family Single Family Single Family Single Family Single Family Single Family School Single Family Single Family	4	14 14 14 14	4,072 3,527	40,720		80		U	2.0%	2.0%	70.9	69.0
west of Church St. Church St. to Sepuiveda Blvd. Sepuiveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. Hillgard Avenue Sunset Blvd. to Wyton Dr.	Single Family Single Family Single Family Single Family Single Family School School Single Family Single Family	4	14 14 14	3,527				0	0	2.0%	2.0%	71.3	69.4
Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. Hillgard Avenue Sunset Blvd. to Wyton Dr.	Single Family Single Family Single Family Single Family Single Family School School Single Family Single Family	4	14 14 14	3,527									
Sepulveda Bivd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Bivd. Westwood Bivd. to Stone Cyn. Westwood Bivd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beventy Glen Bivd. east of Beverty Glen Bivd. Hillgard Avenue Sunset Bivd. to Wyton Dr.	Single Family Single Family Single Family Single Family School School Single Family Single Family		14 14			35	100	0.5	0	2.0%	2.0%	68.3	66.4
Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. Hillgard Avenue Sunset Blvd. to Wyton Dr.	Single Family Single Family Single Family School School Single Family Single Family	4 4 4 4	14	3,390	35,270	35	100	0.5	0	2.0%	2.0%	67.7	65.8
Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. Hillgard Avenue Sunset Blvd. to Wyton Dr.	Single Family Single Family School School Single Family Single Family	4 4 4			33,900	35	100	0.5	0	2.0%	2.0%	67.5	65.6
Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. Hillgard Avenue Sunset Blvd. to Wyton Dr.	Single Family School School Single Family Single Family	4 4	14	3,650	36,500	35	100	0.5	0	2.0%	2.0%	67.8	65.9
Westwood Bivd. to Stone Cyn. Westwood Bivd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Bivd. east of Beverly Glen Bivd. Hilgard Avenue Sunset Bivd. to Wyton Dr.	School School Single Family Single Family	4		3,290	32,900	35	100	0.5	-8	2.0%	2.0%	59.4	57.5
Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beventy Glen Blvd. east of Beverly Glen Blvd. Hillgard Avenue Sunset Blvd. to Wyton Dr.	School Single Family Single Family	4	14	3,160	31,600	35	75	0.5	0	2.0%	2.0%	69.3	67.3
Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. Hilgard Avenue Sunset Blvd. to Wyton Dr.	Single Family Single Family		14	3,160	31,600	35	100	0.5	0	2.0%	2.0%	67.2	65.3
Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. Hilgard Avenue Sunset Blvd. to Wyton Dr.	Single Family	4	14	3,160	31,600	35	75	0.5	0	2.0%	2.0%	69.3	67.3
Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. Hilgard Avenue Sunset Blvd. to Wyton Dr.		4	14	2,932	29,320	35	75	0.5	0	2.0%	2.0%	68.9	67.0
east of Beverly Glen Blvd. Hilgard Avenue Sunset Blvd. to Wyton Dr.		4	14	3,220	32,200	35	80	0.5	0	2.0%	2.0%	68.9	67.0
Hilgard Avenue Sunset Blvd. to Wyton Dr.	Single Family	4	14	4,023	40,230	35	80	0.5	0	2.0%	2.0%	69.8	67.9
Sunset Blvd. to Wyton Dr.	Single Family	4	14	2,556	25,560	35	80	0.5	0	2.0%	2.0%	67.9	66.0
Wildon Dr. to Weetholme Ave	Single Family	4	0	1,350	13,580	30	75	0.5	0	2.0%	2.0%	64.7	63.1
reyton bi. to regarioning ree.	Multi-Family	4	14	1,460	14,600	30	75	0.5	0	2.0%	2.0%	65.2	63.6
Westholme Ave. to Manning Ave.	Church	4	14	1,887	18,870	30	50	0.5	0	2.0%	2.0%	69.5	67.9
Westholme Ave. to Manning Ave.	Multi-Family	4	14	1,887	18,870	30	75	0.5	0	2.0%	2.0%	66.3	64.7
Manning to Le Conte Ave.	Multi-Family	4	0	1,798	17,980	30	50	0	0	2.0%	2.0%	68.7	67.1
Le Conte Ave. to Weyburn Ave.	Multi-Family	2	0	1,198	11,980	30	50	0	0	2.0%	2.0%	66.7	65.0
Le Conte Ave. to Weyburn Ave.	Church	2	0	1,198	11,980	30	50	0.5	0	2.0%	2.0%	66.6	65.0
Weyburn Ave. to Lindbrook Ave.	Multi-Family	2	0	1,121	11,210	30	50	0	0	2.0%	2.0%	66.4	64.7
Le Conte Avenue													
east of Hilgard Ave.	Multi-Family	2	0	366	3,660	30	40	0.5	0	2.0%	2.0%	63.0	61.3
Gayley Avanue													
Weyburn Ave. to Le Conte Ave.	Multi-Family	2	14	2,323	23,230	35	75	0	0	2.0%	2.0%	68.5	66.6
Le Conte Ave. to Strathmore Pl.	Multi-Family	2	0	1,693	16,930	30	50	0	0	2.0%	2.0%	68.2	66.5
Strathmore PI. to Veteran Ave. Strathmore PI.	Multi-Family	2	0	1,035	10,350	30	50	0	0	2.0%	2.0%	66.0	64.4
west of Gayley Ave.	Multi-Family	2	0	387	3,870	30	45	0	0	2.0%	2.0%	62.2	60.6
Levering Avenue													
Monlana Ave. to Veteran Ave.	Multi-Family	2	0	380	3,800	30	75	0	0	2.0%	2.0%	59.9	58.3
Veteran Ave. to Le Conte Ave.	Multi-Family	2	0	376	3,760	30	75	0	0	2.0%	2.0%	59.8	58.2
Le Conte Ave. to Weyburn Ave.	Multi-Family	2	0	2,323	23,230	30	75	0	0	2.0%	2.0%	67.B	66.1
Veteran Ave.													
Sunset Bivd. to Gayley Ave.	Single and Multi-Family	2	0	1,275	12,750	35	75	0.5	0	2.0%	2.0%	65.0	63.0
Gayley Ave. to Levering Ave.	Multi-Family	2	0	946	9,460	35	75	0.5	0	2.0%	2.0%	63.7	61.7
Levering Ave. to Wilshire Blvd.	Multi-Family	4	0	2,505	25,050	35	200	0.5	0	2.0%	2.0%	61.5	59.6
Wilshire Blvd. to Ohio Ave.	Multi-Family	2	0	1,768	17,680	30	50	0	0	2.0%	2.0%	68.4	66.7
Ohio Ave. to Santa Monica Blvd.	Multi-Family	2	0	956	9,560	30	50	0	0	2.0%	2.0%	65.7	64.0
Montana Avenue													
Veteran Ave. to Levering Ave.	Multi-Family	2	0	1,275	12,750	30	50	0.5	0	2.0%	2.0%	66.9	65.3
Levering Ave. to Sepulveda Ave.	Single Family	2	0	1,502	15,020	35	75	0.5	0	2.0%	2.0%	65.7	63.8
west of Sepulveda Blvd.	Single Family	2	0	686	6,860	35	75	0	0	2.0%	2.0%	63.2	61.3
Sepulveda Avenue													
Ovada Pl. to Sunset Blvd	Single Family	6	0	3,127	31,270	40	50	0.5	0	2.0%	2.0%	74.2	72.1
Sunset Blvd. to Montana Ave.	Mulit-Family	4	0	2,531	25,310	40	200	0.5	0	2.0%	2.0%	62.8	60.8
Wilshire Blvd. to Ohio Ave. Sawtelle Blvd.	Mulit-Family	4	14	1,966	19,660	40	50	0	0	2.0%	2.0%	71.4	69.3
Ohio Ave. to Santa Monica Blvd.	Multi-Family	2	0	794	7,940	30	45	0.5	0	2.0%	2.0%	65.6	62.0
south of Santa Monica Blvd.	Multi-Family	2	0	1.013		30	45						63.9
Weyburn Avenue	manu-r annuy		U	1,013	10,130	30	40	0.5	0	2.0%	2.0%	66.6	65.0
Glendon Ave. to Westwood Blvd.	Multi-Family	2	0	481									

Westwood Blvd. to Gayley Ave. Lindbrook Avenue	Multi-Family	2	0	806	8,060	30	50	0	0	2.0%	2.0%	64.9	63.3
Westwood Blvd. to Gayley Ave. Wyton Dr.	Multi-Family	4	0	619	6,190	30	40	0	0	2.0%	2.0%	65.2	63.6
east of Hilgard Ave. Westholme Ave.	Single Family	2	0	225	2,250	30	75	0.5	0	2.0%	2.0%	56.7	55.1
east of Hilgard Ave.	Single Family	2	0	364	3,640	30	75	0.5	0	2.0%	2.0%	58.8	57.2
Manning Ave. east of Hilgard Ave.	Single Family	2	0	187	1,870	30	75	0.5	0	2.0%	2.0%	55.9	54.3
Beverly Glen Boulevard													
Wilshire Blvd. to Cornstock Ave. Comstock Ave. to Sunset Blvd.	Single Family	2	0	1,715	17,150	30	100	0	0	2.0%	2.0%	65.2	63.5
Sunset Blvd. to Greendale Dr.	Single Family	2	0	1,485	14,850	30	100	0	-10	2.0%	2.0%	54.6	52.9
Greendale to Mulholland Dr.	Single Family Single Family	2	0	1,859 2,040	18,590 20,400	30 30	25 25	0.5	0	2.0%	2.0%	73.2 73.6	71.6
Ohio Avenue													
Westwood Blvd. to Veteran Ave.	Multi-Family	2	0	1,680	16,800	30	35	0	0	2.0%	2.0%	69.7	68.1
Veteran Ave. to Sepulveda Ave.	Multi-Family	2	0	2,049	20,490	30	35	0	0	2.0%	2.0%	70.6	68.9
Sepulveda Ave. to Beloit Ave.	Multi-Family	2	0	2,001	20,010	30	25	0.5	0	2.0%	2.0%	73.5	71.9
Beloit Ave. to Sawtelle Blvd.	Multi-Family	2	0	1,920	19,200	30	40	0.5	0	2.0%	2.0%	70.2	68.5
west of Sawtelle Blvd.	Multi-Family	2	0	1,809	18,090	30	40	0.5	0	2.0%	2.0%	69.9	68.3
Bellagio Road Chalon Rd. to Sunset Blvd.	Single Family	2	0	694	6 040	25	50			0.00	0.00		
Bel-Air Rd.	Single Family	2	0	094	6,940	25	50	0.5	0	2.0%	2.0%	62.9	61.4
north of Sunset Blvd.	Single Family	2	0	442	4,420	30	75	0.5	0	2.0%	2.0%	59.6	58.0
Analysis Condition			-	Peak		Design	Dist. from		Barrier	Vehic	ie Mix	Peak Hou	
Roadway Name Roadway Segment	Land Use	Lanes	Median Width	Hour Volume	ADT Volume	Speed (mph)	Center to Receptor	Aipha Factor	Attn. dB(A)	Medium Trucks	Heavy Trucks	dB(A)	dB(A) CNEL
Existing Traffic Volumes (Summer Session)													
Wilshire Boulevard						02			1.54	-			
Glendon Ave. to Malcolm Ave.	Multi-Family	6	14	4,260	42,600	30	150	0	0	2.0%	2.0%	87.5	65.9
Malcolm Ave. to Westholme Ave.	Multi-Family	6	14	4,339	43,390	35	150	0	0	2.0%	2.0%	68.3	66.4
Westholme Ave. to Warner Ave.	Multi-Family	6	14 14	4,469	44,690	35 35	150	0	0	2.0%	2.0%	68.4	66.5
Westholme Ave. to Warner Ave. Warner Ave. to Beverly Glen Ave.	Church Multi-Family	6 6	14	4,469 4,480	44,690 44,800	35	100 100	0.5	0	2.0%	2.0%	69.0	67.1
Warner Ave. to Beverly Glen Ave. Warner Ave. to Beverly Glen Ave.	Church	6	14	4,480	44,800	35	80	0.5	0	2.0%	2.0%	70.4 70.8	68.5 68.8
east of Beverly Glen Blvd.	Multi-Family	6	14	4,117	41,170	35	80	0.5	0	2.0%	2.0%	71.2	69.3
Sunset Boulevard	india ( Linia)	•					00		•	2.070	2.0 %	11.2	09.3
west of Church St.	Single Family	4	14	4,781	47,810	35	100	0.5	0	2.0%	2.0%	69.0	67,1
Church St. to Sepulveda Bivd.	Single Family	4	14	3,133	31,330	35	100	0.5	0	2.0%	2.0%	67.2	65.3
Sepulveda Blvd. to Veteran Ave.	Single Family	4	14	3,736	37,360	35	100	0.5	0	2.0%	2.0%	67.9	66.0
Veteran Ave. to Bellagio Rd.	Single Family	4	14	3,602	36,020	35	100	0.5	0	2.0%	2.0%	67.8	65.9
Bellagio Rd. to Westwood Blvd.	Single Family	4	14	3,136	31,360	35	100	0.5	-8	2.0%	2.0%	59.2	57.3
Westwood Blvd. to Stone Cyn.	Single Family	4	14	3,070	30,700	35	75	0.5	0	2.0%	2.0%	69.1	67.2
Westwood Blvd. to Stone Cyn.	School	4	14	3,070	30,700	35	100	0.5	0	2.0%	2.0%	67.1	65.2
Westwood Blvd. to Stone Cyn.	School	4	14	3,070	30,700	35	75	0.5	0	2.0%	2.0%	69.1	67.2
Stone Cyn. To Copa De Oro Rd.	Single Family	4	14	2,907	29,070	35	75	0.5	0	2.0%	2.0%	68.9	67.0
Copa De Oro Rd. to Bel-Air Rd.	Single Family	4	14	3,202	32,020	35	80	0.5	0	2.0%	2.0%	68.9	66.9
Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd.	Single Family	4	14 14	3,967 2,690	39,670 26,900	35 35	80	0.5	0	2.0%	2.0%	69.8	67.9
Hilgard Avenue	Single Family	4	14	2,690	20,900	35	80	0.5	0	2.0%	2.0%	68.1	66.2
Sunset Blvd. to Wyton Dr.	Single Family	4	0	1,293	12,930	30	75	0.5	0	2.0%	2.0%	64.5	62.8
Wyton Dr. to Westholme Ave.	Multi-Family	4	14	1,398	13,980	30	75	0.5	0	2.0%	2.0%	65.0	63.4
Westholme Ave. to Manning Ave.	Church	4	14	1,449	14,490	30	50	0.5	o	2.0%	2.0%	68.4	66.7
Westholme Ave. to Manning Ave.	Multi-Family	4	14	1,449	14,490	30	75	0.5	0	2.0%	2.0%	65.2	63.5
Manning to Le Conte Ave.	Multi-Family	4	0	1,453	14,530	30	50	0	0	2.0%	2.0%	67.8	66.1
Le Conte Ave. to Weyburn Ave.	Multi-Family	2	0	1,092	10,920	30	50	0	0	2.0%	2.0%	66.3	64.6
Le Conte Ave. to Weyburn Ave.	Church	2	0	1,092	10,920	30	50	0.5	0	2.0%	2.0%	66.2	64.6
Weyburn Ave. to Lindbrook Ave.	Multi-Family	2	0	988	9,880	30	50	0	0	2.0%	2.0%	65.8	64.2
Le Conte Avenue east of Hilgard Ave.	Multi-Family	2	0	285	2,850	30	40	0.5	0	2.0%	2.0%	61.9	60.2
Gayley Avenue	Multi-Family	2	14	2,609	26,090	35	75	o	0	2.0%	2.0%	69.0	
Weyburn Ave. to Le Conte Ave.		2	0	1,612	16,120	30	50	0	0	2.0%	2.0%	67.9	67.1
Le Conte Ave. to Strathmore Pl. Strathmore Pl. to Veteran Ave.	Multi-Family Multi-Family	2	0	1,168	11,680	30	50	0	0	2.0%	2.0%	66.5	66.3 64.9
Strathmore PI.													
west of Gayley Ave. Levering Avenue	Multi-Family	2	0	236	2,360	30	45	0	0	2.0%	2.0%	60.1	58.4
Montana Ave. to Veteran Ave.	Multi-Family	2	0	379	3,790	30	75	0	0	2.0%	2.0%	59.9	58.2
Veteran Ave. to Le Conte Ave.	Multi-Family	2	0	362	3,620	30	75	0	0	2.0%	2.0%	59.9	58.0
Le Conte Ave. to Weyburn Ave.	Multi-Family	2	0	2,609	26,090	30	75	0	0	2.0%	2.0%	68.3	66.6
Veteran Ave. Sunset Blvd. to Gayley Ave.	Single and Multi-Family	2	0	1,491	14,910	35	75	0.5	0	2.0%	2.0%	65.6	63.7
Gayley Ave. to Levering Ave.	Multi-Family	2	0	1,078	10,780	35	75	0.5	0	2.0%	2.0%	64.2	62.3
Levering Ave. to Wilshire Blvd.	Multi-Family	4	0	2,430	24,300	35	200	0.5	0	2.0%	2.0%	61.4	59.5
Wilshire Blvd. to Ohio Ave.	Multi-Family	2	0	1,780	17,800	30	50	0	0	2.0%	2.0%	68.4	66.7
	Multi-Family	2	0	770	7,700	30	50	0	0	2.0%	2.0%	64.7	63.1
Ohio Ave. to Santa Monica Blvd.													
Ohio Ave. to Santa Monica Blvd. Montana Avenue							50	0.5	0	2.0%	2.0%	65.7	64.0
	Multi-Family	2	0	961	9,610	30	50						
Montana Avenue Veleran Ave. to Levering Ave. Levering Ave. to Sepulveda Ave.	Single Family	2	0	1,188	11,880	35	75	0.5	0	2.0%	2.0%	64.7	62.7
Montana Avenue Veteran Ave. to Levering Ave. Levering Ave. to Sepulveda Ave. west of Sepulveda Blvd.													62.7 61.0
Montana Avenue Veleran Ave. to Levering Ave. Levering Ave. to Sepulveda Ave.	Single Family	2	0	1,188	11,880	35	75	0.5	0	2.0%	2.0%	64.7	

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Sunset Blvd. to Montana Ave.	Mulit-Family	4	0	2,697	26,970	40	200	0.5	0	2.0%	2.0%	63.1	61.0
Wilshire Blvd. to Ohio Ave.	Mulit-Family	4	14	2,076	20,760	40	50	0	0	2.0%	2.0%	71.6	69.6
Sawtelle Blvd.													
Ohio Ave. to Santa Monica Blvd.	Multi-Family	2	0	826	8,260	30	45	0.5	0	2.0%	2.0%	65.7	64.1
south of Santa Monica Blvd.	Multi-Family	2	0	1,130	11,300	30	45	0.5	0	2.0%	2.0%	67.1	65.4
Weyburn Avenue	Marki Frankti		•	743	7,430	20	50	0	0	2.0%	2.0%	64.6	62.9
Glendon Ave. to Westwood Blvd.	Multi-Family Multi-Family	2	0	1,347	13,470	30 30	50	0	0	2.0%	2.0%	67.2	65.5
Westwood Blvd. to Gayley Ave. Lindbrook Avenue	Mola-Parily	2	U	1,347	13,470	30	50	•		4.0 %	2.010	01.2	00.0
Westwood Blvd. to Gayley Ave.	Multi-Family	4	0	539	5,390	30	40	0	0	2.0%	2.0%	64.6	63.0
Wyton Dr.													
east of Hilgard Ave.	Single Family	2	0	216	2,160	30	75	0.5	0	2.0%	2.0%	56.5	54.9
Westholme Ave.													
east of Hilgard Ave.	Single Family	2	0	315	3,150	30	75	0.5	0	2.0%	2.0%	58.2	56.5
Manning Ave.													
east of Hilgard Ave.	Single Family	2	0	97	970	30	75	0.5	0	2.0%	2.0%	53.1	51.4
Beverly Glen Boulevard									0	2.0%	2.0%	~ ~ ~	
Wilshire Blvd. to Comstock Ave.	Single Family	2 2	0	1,593	15,930 15,800	30 30	100	0	-10	2.0%	2.0%	64.9 54.8	63.2 53.2
Comstock Ave. to Sunset Blvd. Sunset Blvd. to Greendale Dr.	Single Family Single Family	2	0	1,809	18,090	30	25	0.5	0	2.0%	2.0%	73.1	71.5
Greendale to Mulholland Dr.	Single Family	2	0	1,667	16,670	30	25	0.5	0	2.0%	2.0%	72.7	71.1
Ohio Avenue	Chilgle Formity	-	•	1,001	10,010								
Westwood Blvd. to Veteran Ave.	Multi-Family	2	0	1,403	14,030	30	35	0	0	2.0%	2.0%	68.9	67.3
Veteran Ave. to Seputveda Ave.	Multi-Family	2	0	1,766	17,660	30	35	0	0	2.0%	2.0%	69.9	68.3
Sepulveda Ave. to Beloit Ave.	Multi-Family	2	0	1,847	18,470	30	25	0.5	0	2.0%	2.0%	73.2	71.5
Beloit Ave. to Sawtelle Blvd.	Multi-Family	2	0	1,940	19,400	30	40	0.5	0	2.0%	2.0%	70.2	68.6
west of Sawtelle Bivd.	Multi-Family	2	0	1,861	18,610	30	40	0.5	0	2.0%	2.0%	70.0	68.4
Beilagio Road						-	-			0.00		00.7	
Chalon Rd. to Sunset Blvd. Bel-Air Rd.	Single Family	2	0	845	8,450	25	50	0.5	0	2.0%	2.0%	63.7	62.3
north of Sunset Blvd.	Single Family	2	0	448	4,480	30	75	0.5	0	2.0%	2.0%	59.7	58.1
				-		Destina	Dist from		Barrier	Makia	te Mix	Deal Har	
Analysis Condition Roadway Name			Median	Peak Hour	ADT	Design Speed	Dist. from Center to	Alpha	Attn.	Medium	Heavy	Peak Hour dB(A)	24-Hour dB(A)
Roadway Segment	Land Use	Lanes	Width	Volume	Volume	(mph)	Receptor'	Factor	dB(A)	Trucks	Trucks	La	CNEL
Future Without Project Traffic Volumes (Rep Wilshire Boulevard	gular Session)												
Glendon Ave. to Malcolm Ave.	Multi-Family	6	14	4,914	49,140	30	150	0	0	2.0%	2.0%	68.1	66.5
Malcoim Ave. to Westholme Ave.	Multi-Family	6	14	5,289	52,890	35	150	0	0	2.0%	2.0%	69.2	67.2
Westholme Ave. to Warner Ave.	Multi-Family	6	14	5,371	53,710	35	150	0	0	2.0%	2.0%	69.2	67.3
Westholme Ave. to Wamer Ave.	Church	6	14	5,371	53,710	35	100	0.5	0	2.0%	2.0%	69.8	67.9
Warner Ave. to Beverly Glen Ave.	Multi-Family	6	14	5,247	52,470	35	100	0	0	2.0%	2.0%	71.1	69.1
Warner Ave. to Beverly Glen Ave.	Church	6	14	5,247	52,470	35	80	0.5	0	2.0%	2.0%	71.4	69.5
east of Beverly Glen Blvd.	Multi-Family	6	14	4,866	48,660	35	80	0	0	2.0%	2.0%	71.9	70.0
Sunset Boulevard	Single Femily	4	14	4,459	44,590	35	100	0.5	0	2.0%	2.0%	68.7	66.8
west of Church St. Church St. to Sepulveda Blvd.	Single Family Single Family	4	14	3,877	38,770	35	100	0.5	0	2.0%	2.0%	68.1	66.2
Sepulveda Bivd. to Veteran Ave.	Single Family	4	14	3,775	37,750	35	100	0.5	o	2.0%	2.0%	68.0	66.1
Veteran Ave. to Bellagio Rd.	Single Family	4	14	3,859	38,590	35	100	0.5	0	2.0%	2.0%	68.1	66.2
Bellagio Rd. to Westwood Blvd.	Single Family	4	14	3,552	35,520	35	100	0.5	-8	2.0%	2.0%	59.7	57.8
Westwood Blvd. to Stone Cyn.	Single Family	4	14	3,556	35,560	35	75	0.5	0	2.0%	2.0%	69.8	67.9
Westwood Blvd. to Stone Cyn.	School	4	14	3,556	35,560	35	100	0.5	0	2.0%	2.0%	67.7	65.8
Westwood Blvd. to Stone Cyn.	School	4	14	3,556	35,560	35	75	0.5	0	2.0%	2.0%	69.8	67.9
Stone Cyn. To Copa De Oro Rd.	Single Family	4	14	3,185	31,850	35	75	0.5	0	2.0%	2.0%	69.3	67.4
Copa De Oro Rd. to Bel-Air Rd.	Single Family	4	14	3,470	34,700	35	80	0.5	0	2.0%	2.0%	69.2	67.3
Bel-Air Rd. to Beverly Glen Blvd.	Single Family Single Family	4	14 14	4,536	45,360	35	80	0.5	0	2.0%	2.0%	70.4	68.4
east of Beverly Glen Blvd. Hilgard Avenue	Single Farmy	4	14	2,882	28,820	35	80	0.5	0	2.0%	2.0%	68.4	66.5
Sunset Blvd. to Wyton Dr.	Single Family	4	0	1,476	14,760	30	75	0.5	0	2.0%	2.0%	65.1	63.4
Wyton Dr. to Westholme Ave.	Multi-Family	4	14	1,631	16,310	30	75	0.5	0	2.0%	2.0%	65.7	64.0
Westholme Ave. to Manning Ave.	Church	4	14	2.014	20,140	30	50	0.5	0	2.0%	2.0%	69.8	68.2
Masthelms Aus to Magning Aus		4	14	2,014	20,140	30	75	0.5	0	2.0%	2.0%	66.6	65.0
Westholme Ave. to Manning Ave.	Multi-Family		-	2,045	20,450	30	50	0	0	2.0%	2.0%	69.3	67.6
Manning to Le Conte Ave.	Multi-Family	4	0					0	0	0.000			
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave.	Multi-Family Multi-Family	4 2	0	1,465	14,650	30	50		-	2.0%	2.0%	67.5	65.9
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave.	Multi-Family Multi-Family Church	4 2 2	0 0	1,465 1,465	14,650	30	50	0.5	0	2.0%	2.0%	67.5	65.9
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Weyburn Ave. to Lindbrook Ave.	Multi-Family Multi-Family	4 2	0	1,465				0.5 0	0				
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Weyburn Ave. to Lindbrook Ave. Le Conte Avenue	Multi-Family Multi-Family Church Multi-Family	4 2 2 2	0 0 0	1,465 1,465 1,336	14,650 13,380	30 30	50 50	0	0	2.0% 2.0%	2.0% 2.0%	67.5 67.1	65.9 65.5
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Weyburn Ave. to Lindbrook Ave. Le Conte Avenue east of Hilgard Ave.	Multi-Family Multi-Family Church	4 2 2	0 0	1,465 1,465	14,650	30	50			2.0%	2.0%	67.5	65.9
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Weyburn Ave. to Lindbrook Ave. Le Conte Avenue east of Hilgard Ave. Gayley Avenue	Multi-Family Multi-Family Church Multi-Family	4 2 2 2	0 0 0	1,465 1,465 1,336	14,650 13,380	30 30 30	50 50	0	0	2.0% 2.0% 2.0%	2.0% 2.0%	67.5 67.1 63.5	65.9 65.5 61.9
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Weyburn Ave. to Lindbrook Ave. Le Conte Avenue east of Hilgard Ave.	Multi-Family Multi-Family Church Multi-Family Multi-Family	4 2 2 2 2	0 0 0	1,465 1,465 1,336 417	14,650 13,380 4,170	30 30	50 50 40	0 0.5	0	2.0% 2.0%	2.0% 2.0% 2.0%	67.5 67.1	65.9 65.5
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Weyburn Ave. to Lindbrook Ave. Le Conte Avenue east of Hilgard Ave. Gayley Avenue Weyburn Ave. to Le Conte Ave.	Multi-Family Multi-Family Church Multi-Family Multi-Family Multi-Family	4 2 2 2 2 2 2 2	0 0 0 14	1,465 1,465 1,336 417 1,788	14,650 13,380 4,170 17,880	30 30 30 35	50 50 40 75	0 0.5 0	0 0 0	2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0%	67.5 67.1 63.5 67.4	65.9 65.5 61.9 65.5
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Weyburn Ave. to Lindbrook Ave. Le Conte Avenue east of Hilgard Ave. Gayley Avenue Weyburn Ave. to Le Conte Ave. Le Conte Ave. to Strathmore Pl.	Multi-Family Multi-Family Church Multi-Family Multi-Family Multi-Family Multi-Family	4 2 2 2 2 2 2 2 2 2 2 2	0 0 0 14 0 0	1,465 1,465 1,336 417 1,788 1,789 1,164	14,650 13,380 4,170 17,880 17,890	30 30 30 30 35 30	50 50 40 75 50	0 0.5 0 0	0 0 0	2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0%	67.5 67.1 63.5 67.4 68.4	65.9 65.5 61.9 65.5 66.8
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Weyburn Ave. to Lindbrook Ave. Le Conte Avenue east of Higard Ave. Gayley Avenue Weyburn Ave. to Le Conte Ave. Le Conte Ave. to Strathmore PI. Strathmore PI. to Veteran Ave. Strathmore PI. west of Gayley Ave.	Multi-Family Multi-Family Church Multi-Family Multi-Family Multi-Family Multi-Family	4 2 2 2 2 2 2 2 2 2	0 0 0 14 0	1,465 1,465 1,336 417 1,788 1,789	14,650 13,380 4,170 17,880 17,890	30 30 30 30 35 30	50 50 40 75 50	0 0.5 0 0	0 0 0	2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0%	67.5 67.1 63.5 67.4 68.4	65.9 65.5 61.9 65.5 66.8
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Weyburn Ave. to Lindbrook Ave. Le Conte Avenue east of Hilgard Ave. Gayley Avenue Weyburn Ave. to Le Conte Ave. Le Conte Ave. to Strathmore PI. Strathmore PI. to Veteran Ave. Strathmore PI. west of Gayley Ave. Levering Avenue	Multi-Family Multi-Family Church Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family	4 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 0 14 0 0	1,465 1,465 1,336 417 1,788 1,789 1,164 434	14,650 13,380 4,170 17,880 17,890 11,640 4,340	30 30 30 35 30 30 30	50 50 40 75 50 50 45	0 0.5 0 0 0	0 0 0 0 0	2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	67.5 67.1 63.5 67.4 68.4 66.5 62.7	65.9 65.5 61.9 65.5 66.8 64.9 61.1
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Weyburn Ave. to Lindbrook Ave. Le Conte Avenue east of Hilgard Ave. Gayley Avenue Weyburn Ave. to Le Conte Ave. Le Conte Ave. to Strathmore PI. Strathmore PI. west of Gayley Ave. Levering Avenue Montana Ave. to Veteran Ave.	Multi-Family Multi-Family Church Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 0 14 0 0 0	1,465 1,465 1,336 417 1,788 1,789 1,164 434 444	14,650 13,380 4,170 17,880 17,890 11,640 4,340 4,440	30 30 30 35 30 30 30 30	50 50 40 75 50 50 45 75	0 0.5 0 0 0 0		2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	67.5 67.1 63.5 67.4 68.4 66.5 62.7 60.6	65.9 65.5 61.9 65.5 66.8 64.9 61.1 58.9
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Weyburn Ave. to Lindbrook Ave. Le Conte Avenue east of Hilgard Ave. Gayley Avenue Weyburn Ave. to Le Conte Ave. Le Conte Ave. to Strathmore PI. Strathmore PI. to Veteran Ave. Strathmore PI. west of Gayley Ave. Levering Avenue Moniana Ave. to Veteran Ave. Veteran Ave. to Le Conte Ave.	Multi-Famity Multi-Famity Church Multi-Famity Multi-Famity Multi-Famity Multi-Famity Multi-Famity Multi-Famity Multi-Famity Multi-Famity	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 0 14 0 0 0 0	1,465 1,465 1,336 417 1,788 1,789 1,164 434 444 432	14,650 13,380 4,170 17,880 17,890 11,640 4,340 4,440 4,320	30 30 35 30 30 30 30 30 30 30	50 50 40 75 50 50 45 75 75	0 0.5 0 0 0 0 0		2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	67.5 67.1 63.5 67.4 68.4 66.5 62.7 60.6 60.5	65.9 65.5 61.9 65.5 66.8 64.9 61.1 58.9 58.8
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Weyburn Ave. to Lindbrook Ave. Le Conte Avenue east of Hilgard Ave. Gayley Avenue Weyburn Ave. to Le Conte Ave. Le Conte Ave. to Strathmore PI. Strathmore PI. to Veteran Ave. Strathmore PI. west of Gayley Ave. Levering Avenue Montana Ave. to Veteran Ave. Veteran Ave. to Veteran Ave. Le Conte Ave. to Weyburn Ave.	Multi-Family Multi-Family Church Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 0 14 0 0 0	1,465 1,465 1,336 417 1,788 1,789 1,164 434 444	14,650 13,380 4,170 17,880 17,890 11,640 4,340 4,440	30 30 30 35 30 30 30 30	50 50 40 75 50 50 45 75	0 0.5 0 0 0 0		2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	67.5 67.1 63.5 67.4 68.4 66.5 62.7 60.6	65.9 65.5 61.9 65.5 66.8 64.9 61.1 58.9
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Weyburn Ave. to Lindbrook Ave. Le Conte Avenue east of Hilgard Ave. Gayley Avenue Weyburn Ave. to Le Conte Ave. Le Conte Ave. to Strathmore PI. Strathmore PI. to Veteran Ave. Strathmore PI. west of Gayley Ave. Levering Avenue Monlana Ave. to Veteran Ave. Veteran Ave. to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Veteran Ave.	Multi-Family Multi-Family Church Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 0 14 0 0 0 0 0	1,465 1,465 1,336 417 1,788 1,789 1,164 434 434 444 432 2,443	14,650 13,380 4,170 17,880 17,890 11,640 4,340 4,340 4,440 4,320 24,430	30 30 35 30 30 30 30 30 30 30	50 50 40 75 50 50 45 75 75 75	0 0.5 0 0 0 0 0 0		2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	67.5 67.1 63.5 67.4 68.4 66.5 62.7 60.6 60.5 68.0	65.9 65.5 61.9 65.5 66.8 64.9 61.1 58.9 58.8 66.3
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Weyburn Ave. to Lindbrook Ave. Le Conte Avenue east of Hilgard Ave. Gayley Avenue Weyburn Ave. to Le Conte Ave. Le Conte Ave. to Le Conte Ave. Le Conte Ave. to Le Conte Ave. Strathmore PI. west of Gayley Ave. Levering Avenue Montana Ave. to Veteran Ave. Veteran Ave. to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Veteran Ave.	Multi-Family Multi-Family Church Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family Single and Multi-Family	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 0 14 0 0 0 0 0 0	1,465 1,465 1,336 417 1,788 1,789 1,164 434 434 432 2,443 1,216	14,650 13,380 4,170 17,880 17,890 11,640 4,340 4,340 4,440 4,320 24,430 12,160	30 30 30 35 30 30 30 30 30 30 30 30	50 50 40 75 50 50 45 75 75 75 75 75	0 0.5 0 0 0 0 0 0 0 0 0 0 0		2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	67.5 67.1 63.5 67.4 68.4 66.5 62.7 60.6 60.5 68.0 64.8	65.9 65.5 61.9 65.5 66.8 64.9 61.1 58.9 58.8 66.3 62.8
Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Weyburn Ave. to Lindbrook Ave. Le Conte Avenue east of Hilgard Ave. Gayley Avenue Weyburn Ave. to Le Conte Ave. Le Conte Ave. to Strathmore PI. Strathmore PI. to Veteran Ave. Strathmore PI. west of Gayley Ave. Levering Avenue Monlana Ave. to Veteran Ave. Veteran Ave. to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Veteran Ave.	Multi-Family Multi-Family Church Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family Multi-Family	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 0 14 0 0 0 0 0	1,465 1,465 1,336 417 1,788 1,789 1,164 434 434 444 432 2,443	14,650 13,380 4,170 17,880 17,890 11,640 4,340 4,340 4,440 4,320 24,430	30 30 35 30 30 30 30 30 30 30	50 50 40 75 50 50 45 75 75 75	0 0.5 0 0 0 0 0 0		2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	67.5 67.1 63.5 67.4 68.4 66.5 62.7 60.6 60.5 68.0	65.9 65.5 61.9 65.5 66.8 64.9 61.1 58.9 58.8 66.3

i

Ohio Ave. to Santa Monica Blvd.	Multi-Family	2	0	1,073	10,730	30	50	0	0	2.0%	2.0%	66.2	64
Veteran Ave. to Levering Ave.	Multi-Family	2	0	1,379	13,790	30	50	0.5	0	2.0%	2.0%	67.3	65
Levering Ave. to Sepulveda Ave.	Single Family	2	0	1,518	15,180	35	75	0.5	0	2.0%	2.0%	65.7	63
west of Sepulveda Blvd.	Single Family	2	0	836	8,360	35	75	0	0	2.0%	2.0%	64.0	62
epulveda Avenue		-											
Ovada PI. to Sunset Blvd	Single Family	6	0	3,811	38,110	40	50	0.5	0	2.0%	2.0%	75.0	73
Sunset Blvd. to Montana Ave.	Mulit-Family	4	0	3,098	30,980	40	200	0.5	0	2.0%	2.0%	63.7	6
Wilshire Blvd. to Ohio Ave.	Mulit-Family	4	14	2,116	21,160	40	50	0	0	2.0%	2.0%	71.7	6
	Monet anny	4	14	2,110	21,100	40	50	0	0	2.0 %	2.0 %		0
awtelle Blvd.	Marki Family	2	0	834	8,340	30	45	0.5	0	2.0%	2.0%	65.8	
Ohio Ave. to Santa Monica Blvd.	Multi-Family		0			30		0.5	0	2.0%			6
south of Santa Monica Blvd.	Multi-Family	2	v	1,060	10,600	30	45	0.5	0	2.0%	2.0%	66.8	6
leyburn Avenue													
Glendon Ave. to Westwood Blvd.	Multi-Family	2	0	586	5,860	30	50	0	0	2.0%	2.0%	63.6	6
Westwood Blvd. to Gayley Ave.	Multi-Family	2	0	774	7,740	30	50	0	0	2.0%	2.0%	64.8	e
indbrook Avenue													
Westwood Blvd. to Gayley Ave.	Multi-Family	4	0	673	6,730	30	40	0	0	2.0%	2.0%	65.6	6
lyton Dr.													
east of Hilgard Ave.	Single Family	2	0	271	2,710	30	75	0.5	0	2.0%	2.0%	57.5	5
lestholme Ave.													
east of Hilgard Ave.	Single Family	2	0	422	4,220	30	75	0.5	0	2.0%	2.0%	59.4	5
anning Ave.													
east of Hilgard Ave.	Single Family	2	0	201	2,010	30	75	0.5	0	2.0%	2.0%	56.2	5
everly Glen Boulevard					-								
Wilshire Blvd. to Comstock Ave.	Single Family	2	0	1,997	19,970	30	100	0	0	2.0%	2.0%	65.8	e
Comstock Ave. to Sunset Blvd.	Single Family	2	0	1,743	17,430	30	100	0	-10	2.0%	2.0%	55.3	5
		2	0	2.096	20,960	30	25	0.5	0	2.0%	2.0%	73.7	7
Sunset Blvd. to Greendale Dr.	Single Family Single Family	2	0			30	25	0.5	0	2.0%	2.0%	73.0	
Greendale to to Mulholland Dr.	Single Family	2	0	1,753	17,530	30	25	0.5	U	2.0%	2.0%	73.0	
hio Avenue						~			-			-	
Westwood Blvd. to Veteran Ave.	Multi-Family	2	0	1,808	18,080	30	35	0	0	2.0%	2.0%	70.0	E
Veteran Ave. to Sepulveda Ave.	Multi-Family	2	0	2,205	22,050	30	35	0	0	2.0%	2.0%	70.9	6
Sepulveda Ave. to Beloit Ave.	Multi-Family	2	0	2,164	21,640	30	25	0.5	0	2.0%	2.0%	73.9	1
Beloit Ave. to Sawtelle Blvd.	Multi-Family	2	0	2,019	20,190	30	40	0.5	0	2.0%	2.0%	70.4	(
west of Sawtelle Blvd.	Multi-Family	2	0	1,902	19,020	30	40	0.5	0	2.0%	2.0%	70.1	
ellagio Road													
Chalon Rd. to Sunset Blvd.	Single Family	2	0	766	7,660	25	50	0.5	0	2.0%	2.0%	63.3	6
el-Air Rd.													
north of Sunset Blvd.	Single Family	2	0	475	4,750	30	75	0.5	0	2.0%	2.0%	60.0	5
norm of Sunset Divu.													
									-				
ysis Condition				Peak		Design	Dist. from		Barrier		le Mix	Peak Hou	
ysis Condition toadway Name Roadway Segment	Land Use	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor	Barrier Attn. dB(A)	Vehic Medium Trucks	le Mix Heavy Trucks	Peak Hou dB(A)	di di
ysis Condition kaadway Name Roadway Segment re Without Project Traffic Volumes (Su Vilshire Boulevard	Immer Session)		Width	Hour Volume	Volume	Speed (mph)	Center to Receptor	Factor	Attn. dB(A)	Medium Trucks	Heavy Trucks	dB(A)	di
rsis Condition loadway Name Roadway Segment re Without Project Traffic Volumes (Su Vilshire Boulevard Glendon Ave. to Malcolm Ave.	mmer Session) Multi-Family	6	Width 14	Hour Volume 4,452	Volume 44,520	Speed (mph) 30	Center to Receptor	Factor	Attn. dB(A) 0	Medium Trucks	Heavy Trucks 2.0%	dB(A)	d
rsis Condition cadway Name Roadway Segment re Without Project Traffic Volumes (Su Vilshire Boulevard	<b>immer Session)</b> Multi-Family Multi-Family	6 6	Width 14 14	Hour Volume 4,452 4,999	Volume 44,520 49,990	Speed (mph) 30 35	Center to Receptor 150 150	Factor 0 0	Attn. dB(A) 0 0	Medium Trucks 2.0% 2.0%	Heavy Trucks 2.0% 2.0%	67.7 68.9	di C
rsis Condition loadway Name Roadway Segment re Without Project Traffic Volumes (Su Vilshire Boulevard Glendon Ave. to Malcolm Ave.	immer Session) Multi-Family Multi-Family Multi-Family	6 6 6	Width 14 14 14	Hour Volume 4,452 4,999 5,371	Volume 44,520 49,990 53,710	Speed (mph) 30 35 35	Center to Receptor 150 150 150	Factor 0 0	Atin. dB(A) 0 0 0	Medium Trucks 2.0% 2.0% 2.0%	Heavy Trucks 2.0% 2.0%	dB(A) La 67.7 68.9 69.2	
rsis Condition oadway Name Roadway Segment Without Project Traffic Volumes (Su Alishire Boulevard Glendon Ave. to Malcolm Ave. Malcolm Ave. to Westholme Ave.	<b>immer Session)</b> Multi-Family Multi-Family	6 6	Width 14 14	Hour Volume 4,452 4,999	Volume 44,520 49,990	Speed (mph) 30 35 35 35 35	Center to Receptor 150 150	0 0 0 0.5	Atin. dB(A) 0 0 0 0	Medium Trucks 2.0% 2.0% 2.0%	Heavy Trucks 2.0% 2.0% 2.0%	67.7 68.9 69.2 69.8	
rsis Condition oadway Name Roadway Segment without Project Traffic Volumes (Su filshire Boulevard Glendon Ave. to Malcolm Ave. Malcolm Ave. to Westholme Ave. Westholme Ave. to Warner Ave.	immer Session) Multi-Family Multi-Family Multi-Family	6 6 6	Width 14 14 14	Hour Volume 4,452 4,999 5,371	Volume 44,520 49,990 53,710	Speed (mph) 30 35 35	Center to Receptor 150 150 150	Factor 0 0	Atin. dB(A) 0 0 0	Medium Trucks 2.0% 2.0% 2.0%	Heavy Trucks 2.0% 2.0%	dB(A) La 67.7 68.9 69.2	
reis Condition cadway Name Roadway Segment Without Project Traffic Volumes (Su filshire Boulevard Glendon Ave. to Malcolm Ave. Malcolm Ave. to Washolme Ave. Westholme Ave. to Warner Ave. Westholme Ave. to Warner Ave.	immer Session) Multi-Family Multi-Family Multi-Family Church	6 6 6	Width 14 14 14 14	Hour Volume 4,452 4,999 5,371 5,371	Volume 44,520 49,990 53,710 53,710	Speed (mph) 30 35 35 35 35	Center to Receptor 150 150 150 150 100	0 0 0 0.5	Atin. dB(A) 0 0 0 0	Medium Trucks 2.0% 2.0% 2.0%	Heavy Trucks 2.0% 2.0% 2.0%	67.7 68.9 69.2 69.8	
reis Condition cadway Name Roadway Segment Without Project Traffic Volumes (Su Alishire Boulevard Glendon Ave. to Malcolm Ave. Malcolm Ave. to Westholme Ave. Westholme Ave. to Warner Ave. Warner Ave. to Beverly Glen Ave.	immer Session) Multi-Family Multi-Family Multi-Family Church Multi-Family	6 6 6 6	Width 14 14 14 14 14	Hour Volume 4,452 4,999 5,371 5,371 5,286	Volume 44,520 49,990 53,710 53,710 52,860	Speed (mph) 30 35 35 35 35 35 35	Center to Receptor 150 150 150 150 100 100	0 0 0 0.5 0	Attn. dB(A) 0 0 0 0 0 0	Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0%	Heavy Trucks 2.0% 2.0% 2.0% 2.0%	dB(A) L 67.7 68.9 69.2 69.8 71.1	40
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reis Condition aadway Name Roadway Segment Without Project Traffic Volumes (Su Nathire Boulevard Glendon Ave. to Malcolm Ave. Matcolm Ave. to Westholme Ave. Westholme Ave. to Wamer Ave. Westholme Ave. to Wamer Ave. Westholme Ave. to Wamer Ave. Wastholme Ave. to Wamer Ave. Wamer Ave. to Beverly Glen Ave. Wamer Ave. to Beverly Glen Ave. Wamer Ave. to Beverly Glen Ave. Wamer Ave. to Belaylo Unset Boulevard west of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Belagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. Buset Blvd. to Wyton Dr. Wyton Dr. to Westholme Ave. Westholme Ave. to Manning Ave. Menning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Lindbrook Ave. <b>a Conte Ave. to Lindbrook Ave.</b> <b>a Conte Ave. to Le Conte Ave.</b> Le Conte Ave. to Le Conte Ave. Le Conte Ave. to Strathmore Pl. Strathmore Pl. to Veteran Ave.	Immer Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Single Family Single Family Multi-Family Multi-Family Multi-Family Multi-Family	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Width           14           0           0           0           0           0           14	Hour Volume 4,452 4,999 5,371 5,286 5,265 5,610 5,111 4,073 3,634 3,474 3,474 3,474 3,474 3,474 3,474 3,474 3,474 3,474 3,474 3,474 3,474 3,474 3,474 3,431 1,553 1,500 1,179 324 1,748	Volume 44,520 49,990 53,710 52,860 52,860 52,860 52,860 55,210 51,110 40,730 36,340 34,740 34,740 34,740 34,740 34,740 34,740 34,740 34,740 34,740 34,740 34,740 34,740 34,740 34,740 34,740 31,600 34,740 31,600 15,530 15,530 15,530 13,000 11,790 3,240 17,480	Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	Center to Receptor 150 150 150 100 100 80 80 100 100 100 100 100 100	Factor           0           0           0.5           0           0.5           0           0.5           0.5           0.5           0.5           0.5           0.5           0.5           0.5           0.5           0.5           0.5           0.5           0.5           0.5           0.5           0.5           0.5           0.5           0.5           0           0.5           0	Attn. dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0	Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	dB(A)           67.7           68.9           69.2           69.8           71.1           72.5           69.3           667.8           69.6           59.5           69.7           67.6           69.7           69.3           67.6           69.7           69.3           68.6           65.7           69.3           68.6           65.8           65.8           65.4           66.6           62.4           67.3	
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Veteran Ave. to Le Conte Ave.	Multi-Family	2	0	403	4,030	30	75	0	0	2.0%	2.0%	60.2	58.5
Le Conte Ave. to Weyburn Ave.	Multi-Family	2	0	2,743	27,430	30	75	0	0	2.0%	2.0%	68.5	66.8
Veteran Ave.													
Sunset Blvd. to Gayley Ave.	Single and Multi-Family	2	0	1,869	18,690	35	75	0.5	0	2.0%	2.0%	66.6	64.7
Gayley Ave. to Levering Ave.	Multi-Family	2	0	1,219	12,190	35	75	0.5	0	2.0%	2.0%	64.8	62.8
Levering Ave. to Wilshire Blvd.	Multi-Family	4	0	3,280	32,800	35	200	0.5	0	2.0%	2.0%	62.7	60.8
Wilshire Blvd. to Ohio Ave.	Multi-Family	2	0	2,083	20,830	30	50	0	0	2.0%	2.0%	69.1	67.4 63.7
Ohio Ave. to Santa Monica Blvd.	Multi-Family	2	0	883	8,830	30	50	0	0	2.0%	2.0%	65.3	03.7
Montana Avenue	Mark Frank		0	1 000	10,880	30	50	0.5	0	2.0%	2.0%	66.2	64.6
Veteran Ave. to Levening Ave.	Multi-Family	2 2	0	1,088	14,580	35	75	0.5	0	2.0%	2.0%	65.5	63.6
Levering Ave. to Sepulveda Ave. west of Sepulveda Blvd.	Single Family Single Family	2	0	782	7,820	35	75	0	o	2.0%	2.0%	63.7	61.8
Sepulveda Avenue	Single ramily			102	1,020	00		-					
Ovada PI. to Sunset Blvd	Single Family	6	0	4.066	40,660	40	50	0.5	0	2.0%	2.0%	75.3	73.3
Sunset Blvd. to Montana Ave.	Mulit-Family	4	0	3,288	32,880	40	200	0.5	0	2.0%	2.0%	63.9	61.9
Wilshire Blvd. to Ohio Ave.	Mulit-Family	4	14	2,246	22,460	40	50	0	0	2.0%	2.0%	72.0	69.9
Sawtelle Blvd.													
Ohio Ave. to Santa Monica Blvd.	Multi-Family	2	0	868	8,680	30	45	0.5	0	2.0%	2.0%	65.9	64.3
south of Santa Monica Blvd.	Multi-Family	2	0	1,188	11,880	30	45	0.5	0	2.0%	2.0%	67.3	65.7
Weyburn Avenue													
Glendon Ave. to Westwood Blvd.	Multi-Family	2	0	629	6,290	30	50	0	0	2.0%	2.0%	63.9	62.2
Westwood Blvd. to Gayley Ave.	Multi-Family	2	0	707	7,070	30	50	0	0	2.0%	2.0%	64.4	62.7
Lindbrook Avenue													
Westwood Blvd. to Gayley Ave.	Multi-Family	4	0	588	5,880	30	40	0	0	2.0%	2.0%	65.0	63.4
Wyton Dr.										1.1.1			
east of Hilgard Ave.	Single Family	2	0	260	2,600	30	75	0.5	0	2.0%	2.0%	57.3	55.7
Westholme Ave.													
east of Hilgard Ave.	Single Family	2	0	341	3,410	30	75	0.5	0	2.0%	2.0%	58.5	56.9
Manning Ave.	0			400			70			0.00		60.0	
east of Hilgard Ave.	Single Family	2	0	100	1,000	30	75	0.5	0	2.0%	2.0%	53.2	51.6
Beverly Glen Boulevard	Circle Freelty		•	1 010	10 100	20	100	0	0	2.0%	2.0%	65.4	63.8
Wilshire 8lvd. to Cornstock Ave.	Single Family	2	0	1,819	18,190 16,720	30 30	100	0	-10	2.0%	2.0%	55.1	53.4
Comstock Ave. to Sunset Blvd.	Single Family Single Family	2 2	0	1,672 2,039	20,390	30	25	0.5	0	2.0%	2.0%	73.6	72.0
Sunset Blvd. to Greendale Dr. Greendale to Mulholland Dr.	Single Family	2	0	1,753	17,530	30	25	0.5	0	2.0%	2.0%	73.0	71.3
Ohio Avenue	Single Fairing	•	v	1,100	11,000	50		0.0	•	2.070	2.070		11.0
Westwood Blvd. to Veteran Ave.	Multi-Family	2	0	1,511	15,110	30	35	0	0	2.0%	2.0%	69.3	67.6
Veteran Ave. to Sepulveda Ave.	Multi-Family	2	0	1,911	19,110	30	35	0	0	2.0%	2.0%	70.3	68.6
Sepulveda Ave. to Beloit Ave.	Multi-Family	2	0	1,999	19,990	30	25	0.5	0	2.0%	2.0%	73.5	71.9
Beloit Ave. to Sawtelle Blvd.	Multi-Family	2	0	2,040	20,400	30	40	0.5	0	2.0%	2.0%	70.4	68.8
west of Sawtelle Blvd.	Multi-Family	•	•	1,955		30	40	0.5	0	2.0%	2.0%	70.2	68.6
	MUILIFEATTINY	2	0	1,955	19,550								
Bellagio Road	Multeranny	2	U	1,955	19,550								
	Single Family	2	0	907	9,070	25	50	0.5	0	2.0%	2.0%	64.0	62.6
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd.	Single Family	2	0	907	9,070	25	50			2.0%			
Bellagio Road Chalon Rd. to Sunset Blvd.								0.5 0.5	0 0		2.0% 2.0%	64.0 60.0	62.6 58.4
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd.	Single Family	2	0	907 483	9,070	25 30	50 75		0	2.0% 2.0%	2.0%	60.0	58.4
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition	Single Family	2	0	907 483 Peak	9,070 4,830	25 30 Design	50 75 Dist. from	0.5	0 Barrier	2.0% 2.0% Vehic	2.0%	60.0 Peak Hour	58.4
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd.	Single Family	2	0	907 483	9,070	25 30	50 75		0	2.0% 2.0%	2.0%	60.0	58.4
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name Roadway Segment	Single Family Single Family Land Use	2 2	0 0 Median	907 483 Peak Hour	9,070 4,630 ADT	25 30 Design Speed	50 75 Dist. from Center to	0.5 Alpha	0 Barrier Attn.	2.0% 2.0% Vehic Medium	2.0% de Mix Heavy	60.0 Peak Hour dB(A)	58.4 24-Hou dB(A)
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name	Single Family Single Family Land Use	2 2	0 0 Median	907 483 Peak Hour	9,070 4,630 ADT	25 30 Design Speed	50 75 Dist. from Center to	0.5 Alpha	0 Barrier Attn.	2.0% 2.0% Vehic Medium	2.0% de Mix Heavy	60.0 Peak Hour dB(A)	58.4 24-Hou dB(A)
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul	Single Family Single Family Land Use	2 2 Lanes	0 0 Median Width	907 483 Peak Hour Volume 4,916	9,070 4,630 ADT Volume 49,160	25 30 Design Speed (mph) 30	50 75 Dist. from Center to Receptor	0.5 Alpha Factor	0 Barrier Attn. dB(A) 0	2.0% 2.0% Vehic Medium Trucks 2.0%	2.0% de Mix Heavy Trucks 2.0%	60.0 Peak Hour dB(A) Leq 68.1	58.4 24-Hou dB(A) CNEL 66.5
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard	Single Family Single Family Land Use	2 2 Lanes 6 6	0 0 Median Width	907 483 Peak Hour Votume	9,070 4,830 ADT Volume 49,160 52,920	25 30 Design Speed (mph) 30 35	50 75 Dist. from Center to Receptor 150 150	0.5 Alpha Factor 0 0	0 Barrier Attn. dB(A) 0 0	2.0% 2.0% Vehic Medium Trucks 2.0% 2.0%	2.0% de Mix Heavy Trucks	60.0 Peak Hour dB(A) Leq	58.4 24-Hou dB(A) CNEL 66.5 67.2
Bellagio Road Chalon Rd. to Sunset Bivd. Bel-Air Rd. north of Sunset Bivd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard Giendon Ave. to Malcolm Ave.	Single Family Single Family Land Use Iar Session) Multi-Family	2 2 Lanes	0 0 Median Width	907 483 Peak Hour Volume 4,916	9,070 4,630 ADT Volume 49,160	25 30 Design Speed (mph) 30	50 75 Dist. from Center to Receptor	0.5 Alpha Factor	0 Barrier Attn. dB(A) 0	2.0% 2.0% Vehic Medium Trucks 2.0%	2.0% de Mix Heavy Trucks 2.0%	60.0 Peak Hour dB(A) Leq 68.1	58.4 24-Hou dB(A) CNEL 66.5
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard Giendon Ave. to Malcolm Ave. Malcolm Ave. to Westholme Ave.	Single Family Single Family Land Use tar Session) Multi-Family Multi-Family Multi-Family Church	2 2 Lanes 6 6 6 6 6	0 0 Median Width 14 14 14	907 483 Peak Hour Volume 4,916 5,292 5,394 5,394	9,070 4,830 ADT Volume 49,160 52,920 53,940 53,940	25 30 Design Speed (mph) 30 35 35 35	50 75 Dist. from Center to Receptor <sup>2</sup> 150 150 150 150 100	0.5 Alpha Factor 0 0 0 0.5	0 Barrier Attn, dB(A) 0 0 0	2.0% 2.0% Vehic Medium Trucks 2.0% 2.0% 2.0%	2.0% Heavy Trucks 2.0% 2.0% 2.0%	60.0 Peak Hour dB(A) Leq 68.1 69.2 69.2 69.8	58.4 24-Hou dB(A) CNEL 66.5 67.2 67.3 67.9
Bellagio Road Chalon Rd. to Sunset Bivd. Bel-Air Rd. north of Sunset Bivd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard Glendon Ave. to Malcolm Ave. Malcolm Ave. to Mastrolme Ave. Westholme Ave. to Warmer Ave. Warmer Ave. to Warmer Ave. Warmer Ave. to Beverly Glen Ave.	Single Family Single Family Land Use Iar Session) Multi-Family Multi-Family Multi-Family Church Multi-Family	2 2 Lanes 6 6 6 6 6 6 6 6	0 0 Wedian Width 14 14 14 14 14	907 483 Peak Hour Volume 4,916 5,292 5,394 5,394 5,310	9,070 4,630 ADT Volume 49,160 52,920 53,940 53,940 53,100	25 30 Design Speed (mph) 30 35 35 35 35	50 75 Dist. from Center to Receptor <sup>*</sup> 150 150 150 100 100	0.5 Alpha Factor 0 0 0 0.5 0	0 Barrier Attn, dB(A) 0 0 0 0	2.0% 2.0% Vehici Medium Trucks 2.0% 2.0% 2.0% 2.0%	2.0% de Mix Heavy Trucks 2.0% 2.0% 2.0% 2.0%	60.0 Peak Houu dB(A) Leg 68.1 69.2 69.2 69.8 71.1	58.4 dB(A) CNEL 66.5 67.2 67.3 67.9 69.2
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard Giendon Ave. to Malcolm Ave. Malcolm Ave. to Warmer Ave. Westholme Ave. to Warmer Ave. Wastholme Ave. to Warmer Ave. Warmer Ave. to Beverly Glen Ave. Warmer Ave. to Beverly Glen Ave.	Single Family Single Family Land Use tar Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church	2 2 Lanes 6 6 6 6 6 6 6	0 0 Median Width 14 14 14 14 14	907 483 Peak Hour Volume 4,916 5,292 5,394 5,310 5,310	9,070 4,830 ADT Volume 49,160 52,920 53,940 53,940 53,100	25 30 Design Speed (mph) 30 35 35 35 35 35 35	50 75 Dist. from Center to Receptor 150 150 150 150 100 80	0.5 Alpha Factor 0 0 0 0.5 0 0.5	0 Barrier Attn. dB(A) 0 0 0 0 0 0 0	2.0% 2.0% Vehic Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% de Mix Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0%	60.0 Peak Hour dB(A) Leg 68.1 69.2 69.2 69.2 69.2 71.1 71.5	58.4 dB(A) CNEL 66.5 67.2 67.3 67.9 69.2 69.6
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard Giendon Ave. to Malcolm Ave. Malcolm Ave. to Malcolm Ave. Westholme Ave. to Warmer Ave. Westholme Ave. to Warmer Ave. Westholme Ave. to Warmer Ave. Warmer Ave. to Beverly Gien Ave. Warmer Ave. to Beverly Gien Ave.	Single Family Single Family Land Use Iar Session) Multi-Family Multi-Family Multi-Family Church Multi-Family	2 2 Lanes 6 6 6 6 6 6 6 6	0 0 Wedian Width 14 14 14 14 14	907 483 Peak Hour Volume 4,916 5,292 5,394 5,394 5,310	9,070 4,630 ADT Volume 49,160 52,920 53,940 53,940 53,100	25 30 Design Speed (mph) 30 35 35 35 35	50 75 Dist. from Center to Receptor <sup>*</sup> 150 150 150 100 100	0.5 Alpha Factor 0 0 0 0.5 0	0 Barrier Attn, dB(A) 0 0 0 0	2.0% 2.0% Vehici Medium Trucks 2.0% 2.0% 2.0% 2.0%	2.0% de Mix Heavy Trucks 2.0% 2.0% 2.0% 2.0%	60.0 Peak Houu dB(A) Leg 68.1 69.2 69.2 69.8 71.1	58.4 dB(A) CNEL 66.5 67.2 67.3 67.9 69.2
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard Giendon Ave. to Malcolm Ave. Malcolm Ave. to Malcolm Ave. Westholme Ave. to Warmer Ave. Westholme Ave. to Warmer Ave. Warmer Ave. to Beverly Gien Ave. Warmer Ave. to Beverly Gien Ave. east of Beverly Gien Sunset Boulevard	Single Family Single Family Land Use tar Session) Multi-Family Multi-Family Church Multi-Family Church Multi-Family Church Multi-Family	2 2 Lanes 6 6 6 6 6 6 6 6 6 6	0 0 Median Width 14 14 14 14 14 14 14 14	907 483 Peak Hour Volume 4,916 5,292 5,394 5,310 5,310 4,922	9,070 4,630 ADT Volume 49,160 52,920 53,940 53,940 53,100 49,220	25 30 Design Speed (mph) 30 35 35 35 35 35 35 35 35	50 75 Dist. from Center to Receptor' 150 150 150 150 100 80 80	0.5 Alpha Factor 0 0 0 0.5 0 0.5 0 0.5 0	0 Barrier Attn, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0	2.0% 2.0% Vehic Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% de Mix Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0%	60.0 Peak Houi dB(A) Leg 68.1 69.2 69.2 69.2 69.8 71.1 71.5 72.0	58.4 dB(A) CNEL 66.5 67.2 67.3 67.9 69.2 69.6 70.0
Bellagio Road Chalon Rd. to Sunset Bivd. Bel-Air Rd. north of Sunset Bivd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard Glendon Ave. to Malcolm Ave. Malcolm Ave. to Malcolm Ave. Westholme Ave. to Westholme Ave. Westholme Ave. to Warmer Ave. Warmer Ave. to Beverly Glen Ave. Warmer Ave. to Beverly Glen Ave. east of Beverly Glen Sunset Boulevard west of CHurch St.	Single Family Single Family Land Use Iar Session) Multi-Family Multi-Family Church Multi-Family Church Multi-Family Church Multi-Family Single Family	2 2 Lanes 6 6 6 6 6 6 6 6 4	0 0 Median Width 14 14 14 14 14 14 14 14	907 483 Peak Hour Volume 4,916 5,292 5,394 5,310 5,310 4,922 4,463	9,070 4,830 ADT Volume 49,160 52,920 53,940 53,940 53,100 49,220 44,630	25 30 Design Speed (mph) 30 35 35 35 35 35 35 35 35 35	50 75 Dist. from Center to Receptor 150 150 150 150 100 100 80 80 100	0.5 Alpha Factor 0 0 0 0.5 0 0.5 0 0.5	0 Barrier Attn. dB(A) 0 0 0 0 0 0 0 0 0 0 0 0	2.0% 2.0% Vehic Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% de Mix Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	60.0 Peak Hou dB(A) Leq 69.1 69.2 69.2 69.2 69.2 69.8 71.1 71.5 72.0 68.7	58.4 dB(A) CNEL 66.5 67.2 67.3 67.9 69.2 69.6 70.0 66.8
Bellagio Road Chalon Rd. to Sunset Bivd. Bel-Air Rd. north of Sunset Bivd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard Giendon Ave. to Malcolm Ave. Malcolm Ave. to Malcolm Ave. Matcolm Ave. to Wastholme Ave. Westholme Ave. to Warmer Ave. Wastholme Ave. to Warmer Ave. Wastholme Ave. to Warmer Ave. Warmer Ave. to Beverly Gien Ave. east of Beverly Gien Ave. east of Beverly Gien Sunset Boulevard west of Church St. Church St. to Sepulveda Bivd.	Single Family Single Family Land Use tar Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Single Family Single Family	2 2 Lanes 6 6 6 6 6 6 6 6 6 4 4	0 0 Median Width 14 14 14 14 14 14 14 14	907 483 Peak Hour Volume 4,916 5,292 5,394 5,310 5,310 5,310 4,922 4,463 3,887	9,070 4,630 ADT Volume 49,160 52,920 53,940 53,940 53,100 53,100 49,220 44,630 38,870	25 30 Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35	50 75 Dist. from Center to Receptor 150 150 150 150 100 80 80 80 100 100	0.5 Alpha Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 Barrier Attn, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0% 2.0% Vehic Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	60.0 Peak Hour dB(A) Leq 68.1 69.2 69.2 69.8 71.1 71.5 72.0 68.7 68.1	58.4 dB(A) CNEL 66.5 67.2 67.3 67.9 69.2 69.6 70.0 66.8 66.2
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard Giendon Ave. to Malcolm Ave. Malcolm Ave. to Malcolm Ave. Malcolm Ave. to Wastholme Ave. Westholme Ave. to Warmer Ave. Westholme Ave. to Warmer Ave. Westholme Ave. to Warmer Ave. Warmer Ave. to Beverly Gien Ave. Warmer Ave. to Beverly Gien Ave. east of Beverly Gien Sunset Boulevard west of CHurch St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave.	Single Family Single Family Land Use tar Session) Multi-Family Multi-Family Church Multi-Family Church Multi-Family Single Family Single Family Single Family Single Family	2 2 Lanes 6 6 6 6 6 6 6 6 4 4 4 4	0 0 Median Width 14 14 14 14 14 14 14 14 14	907 483 Peak Hour Volume 4,916 5,292 5,394 5,310 5,310 5,310 4,922 4,463 3,887 3,598	9,070 4,830 ADT Volume 49,160 52,920 53,940 53,940 53,100 49,220 44,630 36,870 35,980	25 30 Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35	50 75 Dist. from Center to Receptor 150 150 150 150 100 80 80 80 100 100 100	0.5 Alpha Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 Barrier Attn, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0% 2.0% Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	60.0 Peak Hour dB(A) Leq 68.1 69.2 69.2 69.2 69.8 71.1 71.5 72.0 68.7 68.1 67.8	58.4 dB(A) CNEL 66.5 67.2 67.3 67.9 69.2 69.6 70.0 66.8 66.2 65.9
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard Giendon Ave. to Malcolm Ave. Malcolm Ave. to Malcolm Ave. Westholme Ave. to Warmer Ave. Westholme Ave. to Warmer Ave. Westholme Ave. to Warmer Ave. Wastholme Ave. to Warmer Ave. Warmer Ave. to Beverly Gien Ave. Warmer Ave. to Beverly Gien Ave. Warmer Ave. to Severly Gien Ave. Warmer Ave. to Severly Gien Ave. Warmer Ave. to Beverly Gien Ave. Warmer Ave. to Severly Gien Ave. Warmer Ave. to Severly Gien Ave. Sunset Boulevard west of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd.	Single Family Single Family Land Use tar Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Single Family Single Family Single Family Single Family Single Family	2 2 Lanes 6 6 6 6 6 6 6 6 6 4 4 4 4 4	0 0 Median Width 14 14 14 14 14 14 14 14 14 14	907 483 Peak Hour Volume 4,916 5,292 5,394 5,310 5,310 4,922 4,463 3,887 3,598	9,070 4,530 ADT Volume 49,160 52,920 53,940 53,100 49,220 44,530 36,870 35,580 36,460	25 30 Design Speed (mph) 30 35 35 35 35 35 35 35 35 35	50 75 Dist. from Center to Receptor' 150 150 150 150 100 100 80 80 100 100 100 100	0.5 Alpha Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 Barrier Attn, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0% 2.0% Vehic Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	60.0 Peak Hour dB(A) Leg 68.1 69.2 69.2 69.2 69.2 69.8 71.1 71.5 72.0 68.7 68.1 67.8 68.1	58.4 dB(A) CNEL 66.5 67.2 67.3 67.9 69.2 69.6 70.0 66.8 66.2 65.9 66.2 65.9 66.2
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard Giendon Ave. to Malcolm Ave. Matcolm Ave. to Malcolm Ave. Westholme Ave. to Westholme Ave. Westholme Ave. to Warmer Ave. Westholme Ave. to Warmer Ave. Warmer Ave. to Beverly Gien Ave. Warmer Ave. to Beverly Gien Ave. east of Beverly Gien Sunset Boulevard west of CHurch St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd.	Single Family Single Family Land Use ar Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Single Family Single Family Single Family Single Family Single Family Single Family Single Family	2 2 Lanes 6 6 6 6 6 6 6 6 6 4 4 4 4 4 4 4	0 0 Median Width 14 14 14 14 14 14 14 14 14 14 14	907 483 Peak Hour Volume 4,916 5,394 5,394 5,310 5,310 4,922 4,463 3,887 3,598 3,846 3,562	9,070 4,830 ADT Volume 49,160 52,920 53,940 53,940 53,100 49,220 44,630 36,870 35,980 35,980 35,620	25 30 Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35	50 75 Dist. from Center to Receptor <sup>2</sup> 150 150 150 150 100 100 80 80 100 100 100 100 100	0.5 Alpha Factor 0 0 0.5 0 0.5 0.5 0.5 0.5 0.5 0.5	0 Barrier Attn, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0% 2.0% 2.0% Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% de Mix Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	60.0 Peak Houi dB(A) Leq 68.1 69.2 69.2 69.8 71.1 71.5 72.0 68.7 68.1 67.8 68.1 59.7	58.4 dB(A) CNEL 66.5 67.2 67.3 67.9 69.2 69.6 70.0 66.8 66.2 65.9 66.2 57.8
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Beliagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard Giendon Ave. to Malcolm Ave. Malcolm Ave. to Malcolm Ave. Westhoime Ave. to Warmer Ave. Warmer Ave. to Beverly Gien Ave. Warmer Ave. to Bellagio Rd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Gien Blud. east of Beverly Gien Hilgard Avenue Sunset Blvd. to Wyton Dr. Wystholme Ave. to Manning Ave.	Single Family Single Family Land Use The Session) Multi-Family Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Single Family Single Family Church	2 2 Lanes 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 0 14 14 14 14 14 14 14 14 14 14 14 14 14	907 483 Peak Hour Volume 4,016 5,292 5,394 5,310 5,310 4,922 4,463 3,887 3,598 3,646 3,562 3,375 3,375 3,375 3,375 3,375 3,375 3,375 3,375 3,476 4,640 2,885 1,484 1,763 2,023	9,070 4,530 ADT Volume 49,160 52,920 53,940 53,100 49,220 44,630 36,570 35,580 36,460 35,580 33,750 34,760 46,400 20,200 30,700 34,760 34,760 34,760 32,700 30,700 34,760 32,700 30,700 34,760 34,760 30,700 30,700 30,700 34,760 30,700 40,7000 40,7000 40,7000 40,7000 40,7000 40,7000 4	25 30 Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	50 75 Dist. from Center to Receptor 150 150 150 150 100 100 100 100 100 100	0.5 Alpha Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 Barrier Attn, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	60.0 Peak Hour dB(A) Leq 68.1 69.2 69.3 68.1 67.8 68.1 67.8 68.1 67.8 68.1 67.8 68.1 67.5 69.5 69.5 69.3 69.5 69.3 69.5 69.5 69.3 69.5 69.5 69.3 69.5 69.5 69.3 69.5 69.5 69.3 69.5 69.5 69.3 69.5 69.3 69.5 69.5 69.3 69.5 69.5 69.3 69.5 69.3 69.5 69.3 69.5 69.3 69.5 69.3 69.5 69.3 69.5 69.3 69.5 69.3 69.5 69.3 69.3 69.5 69.3 69.3 69.3 69.5 69.3 69.3 69.5 69.3 69.3 69.5 69.3 69.3 69.5 69.3 69.5 69.3 69.3 69.3 69.3 69.3 69.3 69.3 69.5 69.3 69.5 69.3 69.3 69.5 69.3 69.5 69.5 69.3 69.5 69.3 69.5 69.5 69.5 69.5 69.3 69.5 69.5 69.5 69.5 69.5 69.3 69.5 69.5 69.5 69.5 69.3 69.5 69.3 69.3 69.5 69.5 69.5 69.3 69.5 69.3 69.5 69.3 69.5 69.3 69.5 69.3 69.5 69.3 69.5 69.3 69.5 69.5 69.5 69.5 69.3 69.5 6	58.4 24-Hou dB(A) CNEL 6655 67.2 67.3 67.9 69.6 70.0 66.8 662 65.9 66.2 57.8 67.6 65.6 67.4 65.6
Beliagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard Giendon Ave. to Malcolm Ave. Malcolm Ave. to Malcolm Ave. Westholme Ave. to Warmer Ave. Warmer Ave. to Severly Gien Ave. Warmer Ave. to Belagio Rd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Belagio Rd. Beliagio Rd. to Westwood Blvd. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Beverly Gien Blvd. east of Beverly Gien Hilgard Avenue Sunset Bivd. to Wyton Dr. Wyston Dr. to Westholme Ave. Westholme Ave. to Manning Ave.	Single Family Single Family Land Use ar Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Single Family Single Family Church Multi-Family	2 2 Lanes 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 0 14 14 14 14 14 14 14 14 14 14 14 14 14	907 483 Peak Hour Volume 4,916 5,292 5,394 5,310 5,310 4,922 4,463 3,858 3,858 3,858 3,858 3,858 3,375 3,202 3,275 4,275 3,275 3,275 3,275 3,275 3,275 3,275 3,275 3,275 3,275 3,275	9,070 4,630 ADT Volume 49,160 52,920 53,940 53,940 53,100 49,220 44,630 36,670 33,750 33,750 33,750 33,750 33,750 33,750 33,750 33,750 31,930 44,640 26,850 14,840 17,630 20,230 20,230	25 30 Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	50 75 Dist. from Center to Receptor <sup>2</sup> 150 150 150 100 100 100 100 100 100 100	0.5 Alpha Factor 0 0 0 0 0 5 0 5 0 5 0.5 0.5 0.5 0.5 0.5	0 Barrier Attn, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	60.0 Peak Hour dB(A) Lq 68.1 69.2 69.3 69.5 69.3 69.5 69.3 69.5 68.4 69.5 69.5 69.3 69.5 68.4 69.5 69.5 69.3 69.5 68.4 69.5 69.5 69.3 69.5 68.4 69.5 69.3 69.5 68.4 65.1 66.4 69.5 69.5 69.5 69.5 69.3 69.5 68.4 65.1 66.0 65.4 65.4 65.5 69.5 68.4 65.4 65.5 69.5 68.4 65.4 65.5 69.5 68.4 65.5 69.5 68.4 65.5 65	58.4 0 24-Hou 0 80,A, CNEL 0 66.5 67.2 67.3 67.9 69.2 69.6 69.2 69.6 80.7 60.8 80.7 60.8 80.7 60.8 80.7 60.8 80.7 60.8 80.5 60.
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Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard Giendon Ave. to Malcolm Ave. Malcolm Ave. to Malcolm Ave. Malcolm Ave. to Westholme Ave. Westholme Ave. to Warmer Ave. Wastholme Ave. to Beverly Gien Ave. Warmer Ave. to Beverly Gien Ave. east of Beverly Gien Sunset Boulevard west of CHurch St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Gien Blvd. east of Beverly Gien Hilgard Avenue Sunset Blvd. to Myton Dr. Wyton Dr. to Westholme Ave. Westholme Ave. to Manning Ave. Westholme Ave. to Manning Ave. Manning to Le Conte Ave.	Single Family Single Family Land Use Land Use Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Single Family Single Family Multi-Family Multi-Family Multi-Family Multi-Family	2 2 Lanes 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 0 14 14 14 14 14 14 14 14 14 14 14 14 14	907 483 Peak Hour Volume 4,916 5,292 5,394 5,310 5,310 4,922 4,463 3,887 3,598 3,846 3,562 3,375 3,375 3,375 3,375 3,375 3,375 3,375 3,193 3,476 4,640 2,885 1,484 1,763 2,023 2,051 1,469	9,070 4,830 ADT Volume 49,160 53,940 53,950 33,750 33,750 33,750 34,750 24,9230 44,630 24,220 44,630 34,750 33,750 33,750 34,760 44,640 22,920 14,840 17,630 20,231	25 30 Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	50 75 Dist. from Center to Receptor 150 150 150 150 100 100 100 100 100 100	0.5 Alpha Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 Barrier Attn, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	60.0 Peak Hour dB(A) Leq 68.1 69.2 69.2 69.2 69.2 69.2 69.2 69.2 69.2 69.2 69.2 69.2 69.5 68.1 67.5 69.5 6	58.4 dB(A) CNEL 66.5 67.2 67.3 67.9 69.2 69.6 70.0 66.8 66.2 65.9 66.2 57.8 67.6 65.6 65.6 67.4 67.3 68.5 66.5 67.4 67.3 67.5 66.5 65.6 65.6 65.6 67.4 65.5 65.9
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regu Wilshire Boulevard Giendon Ave. to Malcolm Ave. Malcolm Ave. to Malcolm Ave. Westholme Ave. to Warmer Ave. Warmer Ave. to Beverly Gien Ave. Warmer Ave. to Bellagio Rd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Gien Blud. east of Beverly Gien Hilgard Avenue Sunset Blvd. to Wyton Dr. Wystholme Ave. to Manning Ave. Westholme Ave. to Manning Ave. Westholme Ave. to Manning Ave. Westholme Ave. to Wanning Ave. Manning to Le Conte Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave.	Single Family Single Family Land Use Ar Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Single Family Single Family Multi-Family Multi-Family Multi-Family Multi-Family Church	2 2 Lanes 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 0 14 14 14 14 14 14 14 14 14 14 14 14 14	907 483 Peak Hour Volume 4,916 5,292 5,394 5,310 5,310 4,922 4,463 3,859 3,646 3,562 3,375 3,476 4,680 2,885 1,484 4,692 2,023 2,023 1,484 4,693	9,070 4,530 ADT Volume 49,160 52,920 53,940 53,100 49,220 44,530 36,570 36,570 36,570 36,570 36,570 33,750 34,600 46,400 14,680	25 30 Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	50 75 Dist. from Center to Receptor 150 150 150 100 100 80 80 100 100 100 100 100 100	0.5 Alpha Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 Barrier Attn, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	60.0 Peak Hour dB(A) Leq 68.1 69.2 69.2 69.2 69.8 71.1 71.5 72.0 68.7 68.1 67.8 68.1 59.7 69.5 67.5 67.5 67.5 67.5	58.4 dB(A) cNEL 66.5 67.2 67.3 67.9 69.6 70.0 66.8 66.2 65.9 66.2 57.8 65.6 65.6 65.6 65.6 67.6 65.6 67.6 65.6 65
Bellagio Road Chalon Rd. to Sunset Blvd. Bel-Air Rd. north of Sunset Blvd. Analysis Condition Roadway Name Roadway Segment Future Plus Project Traffic Volumes (Regul Wilshire Boulevard Giendon Ave. to Malcolm Ave. Malcolm Ave. to Wastholme Ave. Westholme Ave. to Warner Ave. Warner Ave. to Beverly Gien Ave. east of Beverly Gien Sunset Boulevard west of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Gien Blvd. east of Beverly Gien Hilgard Avenue Sunset Blvd. to Wyton Dr. Wyton Dr. to Westholme Ave. Westholme Ave. to Manning Ave. Westholme Ave. to Wanning Ave. Westholme Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave. Le Conte Ave. to Weyburn Ave.	Single Family Single Family Land Use Ar Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Single Family Single Family Multi-Family Multi-Family Multi-Family Multi-Family Church	2 2 Lanes 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 0 14 14 14 14 14 14 14 14 14 14 14 14 14	907 483 Peak Hour Volume 4,916 5,292 5,394 5,310 5,310 4,922 4,463 3,859 3,646 3,562 3,375 3,476 4,680 2,885 1,484 4,692 2,023 2,023 1,484 4,693	9,070 4,530 ADT Volume 49,160 52,920 53,940 53,100 49,220 44,530 36,570 36,570 36,570 36,570 36,570 33,750 34,600 46,400 14,680	25 30 Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	50 75 Dist. from Center to Receptor 150 150 150 100 100 80 80 100 100 100 100 100 100	0.5 Alpha Factor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 Barrier Attn, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	60.0 Peak Hour dB(A) Leq 68.1 69.2 69.2 69.2 69.8 71.1 71.5 72.0 68.7 68.1 67.8 68.1 59.7 69.5 67.5 67.5 67.5 67.5	58.4 dB(A) CNEL 66.5 67.2 67.3 67.9 69.6 70.0 66.8 66.2 65.9 66.2 57.8 65.6 67.6 65.6 67.6 65.6 67.6 65.6 67.4 65.5 65.5 63.4 64.4 68.2 65.9 65.9 65.9 65.9

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Weyburn Ave. to Le Conte Ave.	Multi-Family	2	14	1,796	17,960	35	75	0	0	2.0%	2.0%	67.4	65.
Le Conte Ave. to Strathmore Pl.	Multi-Family	2	0	1,798	17,980	30	50	0	0	2.0%	2.0%	68.4	66.
Strathmore PI. to Veteran Ave.	Multi-Family	2	0	1,171	11,710	30	50	0	0	2.0%	2.0%	66.6	64.
Strathmore PI.													•
west of Gayley Ave.	Multi-Family	2	0	435	4,350	30	45	0	0	2.0%	2.0%	62.7	61.
evering Avenue													
Monlana Ave. to Veteran Ave.	Multi-Family	2	0	444	4,440	30	75	0	0	2.0%	2.0%	60.6	58.
Veteran Ave. to Le Conte Ave.	Multi-Family	2	0	432	4,320	30	75	0	0	2.0%	2.0%	60.5	58.
Le Conte Ave. to Weyburn Ave.	Multi-Family	2	0	2,451	24,510	30	75	0	0	2.0%	2.0%	68.0	66.
eteran Ave.													
Sunset Blvd. to Gayley Ave.	Single and Multi-Family	2	0	1,222	12,220	35	75	0.5	0	2.0%	2.0%	64.8	62.
Gayley Ave. to Levering Ave.	Multi-Family	2	0	1,091	10,910	35	75	0.5	0	2.0%	2.0%	64.3	62.
Levening Ave. to Wilshire Blvd.	Multi-Family	4	0	3,153	31,530	35	200	0.5	0	2.0%	2.0%	62.5	60.
Witshire Blvd. to Ohio Ave.	Multi-Family	2	0	1,824	18,240	30	50	0	0	2.0%	2.0%	68.5	66.
Ohio Ave. to Santa Monica Blvd.	Multi-Family	2	0	1,076	10,760	30	50	0	0	2.0%	2.0%	66.2	64
Montana Avenue					1-4-4-					~	2.070	00.2	v
Veteran Ave. to Levering Ave.	Multi-Family	2	0	1,385	13,850	35	75	0.5	0	2.0%	2.0%	65.3	63.
Levening Ave. to Sepulveda Ave.	Single Family	2	0	1,523	15,230	30	50	0.5	0	2.0%	2.0%	67.7	66.
west of Sepulveda Blvd	Single Family	2	0	839	8,390	35	75	0	0	2.0%	2.0%	64.0	62
Sepulveda Avenue							10			6.070	2.0 /0	04.0	02.
Ovada Pl. to Sunset Blvd	Single Family	6	0	3,334	33,340	40	50	0.5	0	2.0%	2.0%	74.5	72
Sunset Blvd. to Montana Ave.	Mulit-Family	4	0	3,102	31,020	40	200	0.5	0	2.0%	2.0%	63.7	61.
Wilshire Blvd. to Ohio Ave.	Muliit-Family	4	14	2,098	20,980	40	50	0	0	2.0%	2.0%		
Sawtelle Blvd.	main i anny		14	2,030	20,000	40	50	U	0	2.076	2.070	71.7	69.
Ohio Ave. to Santa Monica Blvd.	Multi-Family	2	0	855	9 550	30	46	0.E	•	2.00	0.00/		
south of Santa Monica Blvd.	Multi-Family	2	0	1,059	8,550 10,590	30	45 45	0.5	0	2.0%	2.0%	65.9	64.
Veyburn Avenue	Muni-carmy	2	0	1,059	10,590	30	45	0.5	0	2.0%	2.0%	66.8	65
•	Multi-Family	2	0	590	5 000	20	50	•					
Glendon Ave. to Westwood Blvd.				588	5,880	30	50	0	0	2.0%	2.0%	63.6	61
Westwood Blvd. to Gayley Ave. indbrook Avenue	Multi-Family	2	0	776	7,760	30	50	0	0	2.0%	2.0%	64.8	63
	Multi Camila			674	0 740	-							
Westwood Blvd. to Gayley Ave.	Multi-Family	4	0	674	6,740	30	40	0	0	2.0%	2.0%	65.6	64
Vyton Dr.	Cin-la Familia	-			0 300		~						1.1
east of Hilgard Ave.	Single Family	2	0	272	2,720	30	75	0.5	0	2.0%	2.0%	57.5	55.
Vestholme Ave.								1.5	1.1				
east of Hilgard Ave.	Single Family	2	0	426	4,260	30	75	0.5	0	2.0%	2.0%	59.5	57
lanning Ave.													
east of Hilgard Ave.	Single Family	2	0	204	2,040	30	75	0.5	0	2.0%	2.0%	56.3	54.
Beverly Glen Boulevard													
Wilshire Blvd. to Comstock Ave.	Single Family	2	0	2,000	20,000	30	100	0	0	2.0%	2.0%	65.9	64
Comstock Ave. to Sunset Blvd.	Single Family	2	0	1,745	17,450	30	100	0	-10	2.0%	2.0%	55.3	53
Sunset Blvd. to Greendale Dr.	Single Family	2	0	2,097	20,970	30	25	0.5	0	2.0%	2.0%	73.7	72
Greendale to Mulholland	Single Family	2	0	1,754	17,540	30	25	0.5	0	2.0%	2.0%	73.0	71
Dhio Avenue													
Westwood Blvd. to Veteran Ave.	Multi-Family	2	0	1,811	18,110	30	35	0	0	2.0%	2.0%	70.0	68.
Veteran Ave. to Sepulveda Ave.	Multi-Family	2	0	2,207	22,070	30	35	0	0	2.0%	2.0%	70.9	69
Sepulveda Ave. to Beloit Ave.	Multi-Family	2	0	2,166	21,660	30	25	0.5	0	2.0%	2.0%	73.9	72
Beloit Ave. to Sawtelle Blvd.	Multi-Family	2	0	2,019	20,190	30	40	0.5	0	2.0%	2.0%	70.4	68.
west of Sawtelle	Multi-Family	2	0	1,903	19,030	30	40	0.5	0	2.0%	2.0%	70.1	68.
Bellagio Road													
Chalon Rd. to Sunset Blvd.	Single Family	2				25	50	0.5	0	2.0%	2.0%	63.3	61.
	Children antim)	-	0	767	7,670								
Bel-Air Rd.													
	Single Family	2	0	767 479	7,670 4,790	30	75	0.5	0	2.0%	2.0%	60.0	58.
Bel-Air Rd. north of Sunset Blvd.				479				0.5				60.0	58.4
Sel-Air Rd. north of Sunset Blvd. sysis Condition			0	479 Peak	4,790	Design	Dist. from	-	Barrier	Vehicl	le Mix	Peak Hour	24-He
Iel-Air Rd. north of Sunset Blvd. ysis Condition loadway Name	Single Family	2	0 Median	479 Peak Hour	4,790 ADT	Design Speed	Dist. from Center to	Alpna	Barrier Altn.	Vehicl	le Mix Heavy	Peak Hour dB(A)	24-H dB(
sel-Air Rd. north of Sunset Blvd. ysis Condition			0	479 Peak	4,790	Design	Dist. from	-	Barrier	Vehicl	le Mix	Peak Hour	24-H
Sel-Air Rd. north of Sunset Blvd. ysis Condition Roadway Name Roadway Segment re Plus Project Traffic Volumes (Summ	Single Family Land Use	2	0 Median	479 Peak Hour	4,790 ADT	Design Speed	Dist. from Center to	Alpna	Barrier Altn.	Vehicl	le Mix Heavy	Peak Hour dB(A)	24-H
Sel-Air Rd. north of Sunset Blvd. ysis Condition Roadway Name Roadway Segment re Plus Project Traffic Volumes (Sumr Vilshire Boulevard	Single Family Land Use mer Session)	2 Lanes	0 Median Width	479 Peak Hour Volume	4,790 ADT Volume	Design Speed (mph)	Dist. from Center to Receptor'	Alpha Factor	Barrier Aitn. dB(A)	Vehicl Medium Trucks	le Mix Heavy Trucks	Peak Hou dB(A) Les	24-H dB( CNE
tel-Air Rd. north of Sunset Blvd. ysis Condition toadway Name Roadway Segment re Plus Project Traffic Volumes (Sum Vilshire Boulevard Glendon Ave. to Malcolm Ave.	Single Family Land Use mer Session) Multi-Family	2 Lanes	0 Median Width	479 Peak Hour Volume 4,503	4,790 ADT Volume 45,030	Design Speed (mph) 30	Dist. from Center to Receptor'	Alpha Factor	Barrier Altin. dB(A) 0	Vehici Medium Trucks 2.0%	le Mix Heavy Trucks 2.0%	Peak Hour dB(A) Lee 67.7	24-H dB( CNI
Idel-Air Rd. north of Sunset Blvd. yais Condition Roadway Name Roadway Segment re Plus Project Traffic Volumes (Sume Vilshire Boulevard Glendon Ave. to Malcolm Ave. Malcolm Ave. to Westholme Ave.	Single Family Land Use mer Session) Multi-Family Multi-Family	2 Lanes 6 6	0 Median Width 14 14	479 Peak Hour Volume 4,503 5,030	4,790 ADT Volume 45,030 50,300	Design Speed (mph) 30 35	Dist. from Center to Receptor <sup>*</sup> 150	Alpna Factor 0 0	Barrier Aitin. dB(A) 0	Vehici Medium Trucks 2.0% 2.0%	le Mix Heavy Trucks 2.0% 2.0%	Peak Hou dB(A) L <sub>eq</sub> 67.7 68.9	24-H dB( CNE 66. 67.
tet-Air Rd. north of Sunset Blvd. Value Sunset Blvd. Value Sunset Blvd. Value Sunset State Roadway Segment re Plus Project Traffic Volumes (Sum Vilshire Boulevard Glendon Ave. to Malcolm Ave. Malcolm Ave. to Washolme Ave. Westholme Ave. to Warner Ave.	Single Family Land Use mer Session) Multi-Family Multi-Family Multi-Family	2 Lanes 6 6 6	0 Median Width 14 14 14	479 Peak Hour Volume 4,503 5,030 5,426	4,790 ADT Volume 45,030 50,300 54,260	Design Speed (mph) 30 35 35	Dist. from Center to Receptor <sup>1</sup> 150 150	Alpha Factor 0 0 0	Barrier Attn, dB(A) 0 0	Vehici Medium Trucks 2.0% 2.0% 2.0%	e Mix Heavy Trucks 2.0% 2.0% 2.0%	Peak Hour dB(A) L <sub>es</sub> 67.7 68.9 69.3	24-H dB( CNE 66. 67.
tel-Air Rd. north of Sunset Blvd. valis Condition teadway Name Roadway Segment re Plus Project Traffic Volumes (Sume Vilshire Boulevard Glendon Ave. to Malcolm Ave. Malcolm Ave. to Wastholme Ave. Westholme Ave. to Warner Ave. Westholme Ave. to Warner Ave.	Single Family Land Use mer Session) Multi-Family Multi-Family Multi-Family Church	2 Lanes 6 6 6 6	0 Median Width 14 14 14 14	479 Peak Hour Volume 4,503 5,030 5,426 5,426	4,790 ADT Volume 45,030 50,300 54,260 54,260	Design Speed (mph) 30 35 35 35 35	Dist. from Center to Receptor 150 150 150 100	Alpha Factor 0 0 0 0.5	Barrier Attn, dB(A) 0 0 0 0	Vehicl Medium Trucks 2.0% 2.0% 2.0% 2.0%	le Mix Heavy Trucks 2.0% 2.0% 2.0% 2.0%	Peak Hou dB(A) L <sub>eq</sub> 67.7 68.9	24-H dB( CNI 66. 67. 67.
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Idel-Air Rd. north of Sunset Blvd. Ideadway Name Roadway Segment Plus Project Traffic Volumes (Sume Vilshire Boulevard Glendon Ave. to Malcolm Ave. Malcolm Ave. to Mancolm Ave. Westholme Ave. to Warner Ave. Westholme Ave. to Warner Ave. Warner Ave. to Beverly Glen Blvd. unset Boulevard	Single Family Land Use mer Session) Multi-Family Multi-Family Church Multi-Family Church Church	2 Lanes 6 6 6 6 6 6 6	0 Median Width 14 14 14 14 14 14 14 14	479 Peak Hour Volume 4,503 5,030 5,426 5,353 5,353 4,725	4,790 ADT Volume 45,030 50,300 54,260 53,530 53,530 47,250	Design Speed (mph) 30 35 35 35 35 35 35	Dist. from Center to Receptor 150 150 150 100 100 80	Alpha Factor 0 0 0 0.5 0 0.5	Barrier Atin, dB(A) 0 0 0 0 0 0	Vehici Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	e Mix Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	Peak Hour dB(A) Lee 67.7 68.9 69.3 69.8 71.2 71.5	24-H dB( CNI 66. 67. 67. 67. 69. 69.
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All Air Rd. north of Sunset Blvd. Valia Condition toadway Name Roadway Segment The Plus Project Traffic Volumes (Sume Vilshire Boulevard Glendon Ave. to Malcolim Ave. Malcolim Ave. to Malcolim Ave. Westholime Ave. to Warner Ave. Westholime Ave. to Warner Ave. Westholime Ave. to Warner Ave. Warner Ave. to Beverly Glen Blvd. unset Boulevard west of Church St.	Single Family Land Use mer Session) Multi-Family Multi-Family Church Multi-Family Church Church Single Family	2 6 6 6 6 6 6 6 6 4	0 Median Width 14 14 14 14 14 14 14	479 Peak Hour Volume 4,503 5,030 5,426 5,426 5,426 5,426 5,425 5,353 4,725 5,156	4,790 ADT Volume 45,030 50,300 54,260 54,260 53,530 53,530 47,250 51,560	Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35	Dist. from Center to Receptor' 150 150 150 150 100 100 80 80 100	Alpna Factor 0 0 0 0.5 0 0.5 0 0.5 0 0.5	Barrier Attin, dB(A) 0 0 0 0 0 0 0 0 0 0 0	Vehici Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	Peak Hou dB(A) Lee 67.7 68.9 69.3 71.2 71.5 71.8 69.3	24-H dB( CNI 66. 67. 67. 69. 69. 69. 69. 69.
Idel-Air Rd. north of Sunset Blvd. yais Condition (cadway Name Roadway Segment The Plus Project Traffic Volumes (Sume Vilishire Boulevard Glendon Ave. to Malcoim Ave. Malcoim Ave. to Westholme Ave. Westholme Ave. to Warmer Ave. Westholme Ave. to Warmer Ave. Warmer Ave. to Beverly Glen Ave. east of Beverly Glen Blvd. unset Boulevard west of Church St. Church St. to Sepulveda Blvd.	Single Family Land Use mer Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Church Single Family Single Family	2 6 6 6 6 6 6 6 4 4	0 Median Width 14 14 14 14 14 14 14 14	479 Peak Hour Volume 4,503 5,030 5,426 5,426 5,353 5,353 4,725 5,156 4,092	4,790 ADT Volume 45,030 50,300 54,260 54,260 53,530 53,530 47,250 51,560 40,920	Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35	Dist. from Center to Receptor <sup>*</sup> 150 150 150 100 100 80 80 80 100 100	Alpna Factor 0 0 0 0 0 0 5 0 0 0 0 5 0 5 0.5	Barrier Afin, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vehici Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	Peak Hou dB(A) Lea 67.7 68.9 69.3 69.8 71.2 71.5 71.8 69.3 68.3	24-H dB( CNI 66. 67. 67. 69. 69. 69. 69. 69. 69. 66.
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Air Rd. north of Sunset Blvd. valia Condition Kadway Name Roadway Segment re Plus Project Traffic Volumes (Sume Vilshire Boulevard Glendon Ave. to Maicolim Ave. Malcolim Ave. to Maicolim Ave. Westholme Ave. to Warmer Ave. Westholme Ave. to Warmer Ave. Wastholme Ave. to Beverty Glen Ave. Warmer Ave. to Beverty Glen Ave. Warmer Ave. to Beverty Glen Ave. Warmer Ave. to Beverty Glen Ave. Inset Boulevard west of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd.	Single Family Land Use mer Session) Multi-Family Multi-Family Church Multi-Family Church Multi-Family Church Church Single Family Single Family Single Family Single Family	2 Lanes 6 6 6 6 6 6 6 4 4 4 4 4 4	0 Median Width 14 14 14 14 14 14 14 14 14 14	479 Peak Hour Volume 4,503 5,030 5,426 5,353 5,353 4,725 5,156 4,092 3,792 4,071	4,790 ADT Volume 45,030 50,300 54,260 53,530 53,530 53,530 53,530 53,530 53,530 53,530 53,530 53,530 53,530 53,530 53,530 53,530 53,530 53,500 54,260 53,530 51,560 40,920 40,920 40,920 40,920 40,920 40,920 40,920 40,920 51,560 51,560 40,920 51,560 51,560 40,920 51,560 51,560 40,920 53,530 53,530 53,530 51,560 40,920 53,530 54,260 54	Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	Dist. from Center to Receptor <sup>7</sup> 150 150 150 150 150 100 100 80 80 100 100 100 100	Alpha Factor 0 0 0 0 0 5 0 0 5 0 5 0.5 0.5 0.5 0.5	Barrier Atin, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vehici Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	e Mix Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	Peak Hou dB(A) Lee 67.7 68.9 69.3 69.8 71.2 71.5 71.8 69.3 68.3 68.3 68.3 59.6	24-H dB(( CNN 66. 67. 69. 69. 69. 69. 69. 69. 66. 66. 66. 57.
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Sel-Air Rd. north of Sunset Blvd. vais Condition Roadway Name Roadway Segment re Plus Project Traffic Volumes (Sume Viishire Boulevard Giendon Ave. to Maicolim Ave. Maicolim Ave. to Westholme Ave. Westholme Ave. to Warner Ave. Westholme Ave. to Warner Ave. Westholme Ave. to Warner Ave. Warner Ave. to Beverly Glen Ave. Warner Ave. to Beverly Glen Ave. east of Beverly Glen Blvd. Warner Ave. to Severly Glen Ave. east of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn.	Single Family Land Use mer Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Church Church Single Family Single Family	2 6 6 6 6 6 6 6 4 4 4 4 4 4 4 4	0 Median Width 14 14 14 14 14 14 14 14 14 14 14 14 14	479 Peak Hour Volume 4,503 5,030 5,426 5,353 5,353 4,725 5,156 4,092 3,792 4,071 3,472 3,384 3,384	4,790 ADT Volume 45,030 50,300 54,260 53,530 47,250 51,560 40,920 37,920 40,710 34,720 33,840	Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	Dist. from Center to Receptor <sup>7</sup> 150 150 150 100 100 100 80 80 100 100 100 100 100	Alpha Factor 0 0 0.5 0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	Barrier Arin, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vehici Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	Peak Hou dB(A) Lea 67.7 68.9 69.3 69.8 71.2 71.5 71.8 69.3 68.3 68.3 68.3 68.3 68.3 68.3 68.3 68	24-H dB( CNI 66. 67. 67. 69. 69. 69. 69. 69. 67. 66. 66. 66. 66. 57. 67. 65.
Air Rd. north of Sunset Blvd. valis Condition toadway Name Roadway Segment re Plus Project Traffic Volumes (Sume Vilshire Boulevard Glendon Ave. to Malcolim Ave. Matcolim Ave. to Malcolim Ave. Westholme Ave. to Warmer Ave. Westholme Ave. to Warmer Ave. Wastholme Ave. to Beverly Glen Ave. Warmer Ave. to Beverly Glen Ave. Unset Boulevard west of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn.	Single Family Land Use mer Session) Multi-Family Multi-Family Multi-Family Church Church Church Church Church Single Family Single Family Single Family Single Family Single Family Single Family Single Family Single Family Single Family Single Family	2 6 6 6 6 6 6 6 4 4 4 4 4 4 4 4 4 4 4	0 Median Width 14 14 14 14 14 14 14 14 14 14 14 14 14	479 Peak Hour Volume 4,503 5,030 5,426 5,353 4,725 5,156 4,092 3,792 4,071 3,472 3,384 3,384 3,384	4,790 ADT Volume 45,030 50,300 54,260 53,530 53,530 47,250 51,560 40,920 37,920 40,710 33,840 33,840 33,840	Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	Dist. from Center to Receptor <sup>7</sup> 150 150 150 150 150 100 100 100 100 100	Alpha Factor 0 0 0.5 0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	Barrier Atin, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vehici Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	e Mix Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	Peak Hou dB(A) L <sub>e</sub> 67.7 68.9 69.3 69.8 71.2 71.5 71.8 69.3 68.3 68.3 68.3 59.6 69.6 67.5 69.6	24-H dB( CNI 66. 67. 67. 69. 69. 69. 69. 69. 69. 69. 67. 66. 66. 57. 67. 65. 67.
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tet-Air Rd. north of Sunset Blvd. vais Condition Roadway Name Roadway Segment re Plus Project Traffic Volumes (Sume Vilshire Boulevard Giendon Ave. to Malcoim Ave. Matcolm Ave. to Westholme Ave. Westholme Ave. to Warner Ave. Westholme Ave. to Warner Ave. Wastholme Ave. to Warner Ave. Wastholme Ave. to Beverly Glen Ave. Warner Ave. to Beverly Glen Ave. Vater Ave. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd.	Land Use mer Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Church Single Family Single Family	2 6 6 6 6 6 6 6 6 4 4 4 4 4 4 4 4 4 4 4	0 Median Width 14 14 14 14 14 14 14 14 14 14 14 14 14	479 Peak Hour Volume 4,503 5,030 5,426 5,353 5,353 4,725 5,156 4,092 3,792 4,071 3,472 3,384 3,384 3,384 3,384 3,384 3,257 3,497	4,790 ADT Volume 45,030 50,300 54,260 54,260 53,530 47,250 51,560 40,920 37,920 40,710 33,840 34,970 34	Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	Dist. from Center to Receptor <sup>7</sup> 150 150 150 100 100 100 100 100 100 100	Alpha Factor 0 0 0.5 0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	Barrier Afin, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vehici Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	Peak Hou dB(A) L <sub>e</sub> 67.7 68.9 69.3 69.3 71.2 71.5 71.8 69.3 68.3 68.3 68.3 68.3 68.3 68.6 66.6 67.5 69.6 66.4 69.2	24-H dB(( CNI 66. 67. 67. 69. 69. 69. 69. 67. 66. 66. 66. 66. 67. 67. 67. 67. 67
Sel-Air Rd. north of Sunset Blvd. yais Condition Roadway Name Roadway Segment re Plus Project Traffic Volumes (Sume Vilshire Boulevard Glendon Ave. to Malcoim Ave. Matcolm Ave. to Westholme Ave. Westholme Ave. to Warner Ave. Westholme Ave. to Warner Ave. Westholme Ave. to Warner Ave. Warner Ave. to Beverly Glen Ave. east of Beverly Glen Blvd. Sunset Boulevard west of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverty Glen Blvd.	Land Use mer Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Church Single Family Single Family	2 6 6 6 6 6 6 6 4 4 4 4 4 4 4 4 4 4 4 4	0 Median Width 14 14 14 14 14 14 14 14 14 14 14 14 14	479 Peak Hour Volume 4,503 5,030 5,426 5,426 5,353 5,353 4,725 5,156 4,092 3,792 4,071 3,384 3,384 3,384 3,384 3,384 3,257 3,497 4,661	4,790 ADT Volume 45,030 50,300 54,260 54,260 53,530 47,250 51,560 40,920 37,920 40,710 34,720 33,840 33,840 33,840 33,840 33,840 33,840 33,840 32,570 46,610	Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	Dist. from Center to Receptor <sup>7</sup> 150 150 150 100 100 100 100 100 100 100	Alpha Factor 0 0 0 0 5 0 0 5 0 5 0.5 0.5 0.5 0.5 0.5	Barrier Afin, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vehici Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	Peak Hou dB(A) Lea 67.7 68.9 69.3 69.8 71.2 71.5 71.8 69.3 68.3 68.3 68.3 68.0 68.3 68.0 68.3 65.6 69.6 67.5 69.6 69.6 69.5 69.2 70.5	24-H dB(( CNI 66. 67. 69. 69. 69. 69. 67. 66. 66. 66. 66. 66. 67. 65. 67. 67. 67. 67. 68.
Sel-Air Rd. north of Sunset Blvd. valia Condition Roadway Name Roadway Segment re Plus Project Traffic Volumes (Sume Vilshire Boulevard Glendon Ave. to Maicolim Ave. Maicolim Ave. to Westholme Ave. Westholme Ave. to Warner Ave. Westholme Ave. to Warner Ave. Westholme Ave. to Beverly Glen Ave. Warner Ave. to Beverly Glen Ave. east of Beverly Glen Blvd. Warner Ave. to Severly Glen Ave. east of Beverly Glen Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd.	Land Use mer Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Church Single Family Single Family	2 6 6 6 6 6 6 6 6 4 4 4 4 4 4 4 4 4 4 4	0 Median Width 14 14 14 14 14 14 14 14 14 14 14 14 14	479 Peak Hour Volume 4,503 5,030 5,426 5,353 5,353 4,725 5,156 4,092 3,792 4,071 3,472 3,384 3,384 3,384 3,384 3,384 3,257 3,497	4,790 ADT Volume 45,030 50,300 54,260 54,260 53,530 47,250 51,560 40,920 37,920 40,710 33,840 34,970 34	Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	Dist. from Center to Receptor <sup>7</sup> 150 150 150 100 100 100 100 100 100 100	Alpha Factor 0 0 0.5 0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	Barrier Afin, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vehici Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	Peak Hou dB(A) L <sub>e</sub> 67.7 68.9 69.3 69.3 71.2 71.5 71.8 69.3 68.3 68.3 68.3 68.3 68.3 68.6 66.6 67.5 69.6 66.4 69.2	24-H dB(( CNI 66. 67. 69. 69. 69. 69. 67. 66. 66. 66. 66. 66. 67. 65. 67. 67. 67. 67. 68.
Sel-Air Rd. north of Sunset Blvd. value Section State	Land Use mer Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Church Church Single Family Single Family	2 Lanes 6 6 6 6 6 6 6 6 6 6 6 4 4 4 4 4 4 4 4	0 Median Width 14 14 14 14 14 14 14 14 14 14 14 14 14	479 Peak Hour Volume 4,503 5,030 5,426 5,353 4,725 5,156 4,092 3,792 4,071 3,472 3,384 3,384 3,384 3,384 3,257 3,497 4,661 3,070	4,790 ADT Volume 45,030 50,300 54,260 53,530 47,250 51,560 40,920 37,920 40,710 33,840 30,870 34,970 34,970 34,970 34,970 33,840 30,700 30,840 30,700 30,840 30,700 30	Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	Dist. from Center to Receptor <sup>1</sup> 150 150 150 180 100 100 100 100 100 100 100 100 75 75 80 80 80	Alpha Factor 0 0 0.5 0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	Barrier Afin, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vehici Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	e Mix Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	Peak Hou dB(A) Lee 67.7 68.9 89.3 69.3 69.3 69.3 69.3 69.3 69.3 68.3 68.0 68.3 59.6 69.6 67.5 69.6 69.4 69.2 70.5 68.7	24-H dB( CNE 66. 67. 69. 69. 69. 69. 69. 69. 66. 66. 66. 66
Bel-Air Rd. north of Sunset Blvd. value Source Strate Str	Land Use mer Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Church Single Family Single Family	2 6 6 6 6 6 6 6 6 4 4 4 4 4 4 4 4 4 4 4	0 Median Width 14 14 14 14 14 14 14 14 14 14 14 14 14	479 Peak Hour Volume 4,503 5,030 5,426 5,353 5,353 4,725 5,156 4,092 3,792 4,071 3,472 3,384 3,384 3,384 3,384 3,384 3,384 3,384 3,384 3,257 3,497 4,661 3,070 1,496	4,790 ADT Volume 45,030 50,300 54,260 54,260 53,530 47,250 51,560 40,920 37,920 40,710 33,840 30,700 46,610 30,700 41,950 41	Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	Dist. from Center to Receptor <sup>7</sup> 150 150 150 100 100 100 100 100 100 100	Alpha Factor 0 0 0,5 0 0,5 0,5 0,5 0,5 0,5 0,5 0,5 0	Barrier Afin, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vehici Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	e Mix Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	Peak Hou dB(A) L <sub>e</sub> 67.7 68.9 69.3 69.3 69.3 69.3 68.3 68.3 68.3 68.3 68.3 68.6 69.6 67.5 69.6 69.5 69.4 69.2 70.5 68.7 65.1	24-H dB( CNE 66. 67. 69. 69. 69. 69. 69. 66. 66. 66. 67. 67. 66. 67. 67. 67. 67
Bel-Air Rd. north of Sunset Blvd. hysis Condition Roadway Name Roadway Name Roadway Segment wilshire Boulevard Glendon Ave. to Malcolim Ave. Malcolim Ave. to Westholme Ave. Westholme Ave. to Warner Ave. Westholme Ave. to Warner Ave. Wastholme Ave. to Warner Ave. Warner Ave. to Beverly Glen Ave. east of Beverly Glen Blvd. Sunset Boulevard west of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverly Glen Blvd. east of Beverly Glen Blvd. east of Beverly Glen Blvd. Burden Blvd. to Wyton Dr. Wyton Dr. to Westholme Ave.	Land Use mer Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Church Single Family Single Family	2 6 6 6 6 6 6 6 6 4 4 4 4 4 4 4 4 4 4 4	0 Median Width 14 14 14 14 14 14 14 14 14 14 14 14 14	479 Peak Hour Volume 4,503 5,030 5,426 5,426 5,426 5,426 5,353 5,353 4,725 5,156 4,092 3,792 4,071 3,472 3,384 3,384 3,384 3,384 3,257 3,497 4,661 3,070 1,496 1,755	4,790 ADT Volume 45,030 50,300 54,260 54,260 53,530 47,250 51,560 40,920 37,920 40,710 33,840 33,850 44,950 44,950 35,500 34,950 34	Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	Dist. from Center to Receptor <sup>7</sup> 150 150 150 100 100 100 100 100 100 100	Alpha Factor 0 0 0,5 0 0,5 0,5 0,5 0,5 0,5 0,5 0,5 0	Barrier Afin, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vehici Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	Peak Hou dB(A) Lea 67.7 60.9 69.3 69.8 71.2 71.5 71.8 69.3 68.3 68.0 68.3 68.0 68.3 68.0 68.3 69.6 67.5 69.6 67.5 69.6 69.4 69.2 70.5 68.7 65.1 66.0	24-Ht dB(/ CNE 66. 67. 69. 69. 69. 69. 69. 69. 69. 69. 66. 66
Bel-Air Rd. north of Sunset Blvd. hysis Condition Roadway Name Roadway Segment are Plus Project Traffic Volumes (Sume Wilshire Boulevard Glendon Ave. to Wastholme Ave. Westholme Ave. to Warner Ave. Westholme Ave. to Warner Ave. Westholme Ave. to Warner Ave. Warner Ave. to Beverty Glen Ave. Sunset Boulevard west of Church St. Church St. to Sepulveda Blvd. Sepulveda Blvd. to Veteran Ave. Veteran Ave. to Bellagio Rd. Bellagio Rd. to Westwood Blvd. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Westwood Blvd. to Stone Cyn. Stone Cyn. To Copa De Oro Rd. Copa De Oro Rd. to Bel-Air Rd. Bel-Air Rd. to Beverty Glen Blvd. east of Beverty Glen Blvd. iligard Avenue Sunset Blvd. to Wyton Dr.	Land Use mer Session) Multi-Family Multi-Family Multi-Family Church Multi-Family Church Multi-Family Church Single Family Single Family	2 6 6 6 6 6 6 6 6 4 4 4 4 4 4 4 4 4 4 4	0 Median Width 14 14 14 14 14 14 14 14 14 14 14 14 14	479 Peak Hour Volume 4,503 5,030 5,426 5,353 5,353 4,725 5,156 4,092 3,792 4,071 3,472 3,384 3,384 3,384 3,384 3,384 3,384 3,384 3,384 3,257 3,497 4,661 3,070 1,496	4,790 ADT Volume 45,030 50,300 54,260 54,260 53,530 47,250 51,560 40,920 37,920 40,710 33,840 30,700 46,610 30,700 41,950 41	Design Speed (mph) 30 35 35 35 35 35 35 35 35 35 35 35 35 35	Dist. from Center to Receptor <sup>7</sup> 150 150 150 100 100 100 100 100 100 100	Alpha Factor 0 0 0,5 0 0,5 0,5 0,5 0,5 0,5 0,5 0,5 0	Barrier Afin, dB(A) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vehici Medium Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	e Mix Heavy Trucks 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0%	Peak Hou dB(A) L <sub>e</sub> 67.7 68.9 69.3 69.3 69.3 69.3 68.3 68.3 68.3 68.3 68.3 68.6 69.6 67.5 69.6 69.5 69.4 69.2 70.5 68.7 65.1	

Manning to Le Conte Ave.	Multi-Family	4	0	1,732	17,320	30	50	0	0	2.0%	2.0%	68.5	66.9
Le Conte Ave. to Weyburn Ave.	Multi-Family	2	0	1,445	14,450	30	50	0	0	2.0%	2.0%	67.5	65.8
Le Conte Ave. to Weyburn Ave.	Church	2	0	1,445	14,450	30	50	0.5	0	2.0%	2.0%	67.5	65.8
Weyburn Ave. to Lindbrook Ave.	Multi-Family	2	0	1,240	12,400	30	50	0	0	2.0%	2.0%	66.8	65.2
Le Conte Avenue													
east of Hilgard Ave.	Multi-Family	2	0	354	3,540	30	40	0.5	0	2.0%	2.0%	62.8	61.2
Gayley Avenue													
Weyburn Ave. to Le Conte Ave.	Mutti-Family	2	14	1,814	18,140	35	75	0	0	2.0%	2.0%	67.5	65.5
Le Conte Ave. to Strathmore Pl.	Multi-Family	2	0	1,802	18,020	30	50	0	0	2.0%	2.0%	68.4	66.B
Strathmore PI. to Veteran Ave.	Multi-Family	2	0	1,357	13,570	30	50	0	0	2.0%	2.0%	67.2	65.6
Strathmore PI.													
west of Gayley Ave.	Multi-Family	2	0	435	4,350	30	45	0	0	2.0%	2.0%	62.7	61.1
Levering Avenue													
Montana Ave. to Veteran Ave.	Multi-Family	2	0	730	7,300	30	75	0	0	2.0%	2.0%	62.7	61.1
Veteran Ave. to Le Conte Ave.	Multi-Family	2	0	405	4,050	30	75	0	0	2.0%	2.0%	60.2	58.5
Le Conte Ave. to Weyburn Ave.	Multi-Family	2	0	2,852	28,520	30	75	0	0	2.0%	2.0%	68.6	67.0
Veteran Ave.													
Sunset Blvd. to Gayley Ave.	Single and Multi-Family	2	0	1,416	14,160	35	75	0.5	0	2.0%	2.0%	65.4	63.5
Gayley Ave. to Levering Ave.	Multi-Family	2	0	1,241	12,410	35	75	0.5	0	2.0%	2.0%	64.8	62.9
Levering Ave. to Wilshire Blvd.	Multi-Family	4	0	3,240	32,400	35	200	0.5	0	2.0%	2.0%	62.6	60.7
Wilshire Blvd. to Ohio Ave.	Multi-Family	2	0	1,921	19,210	30	50	0	0	2.0%	2.0%	68.7	67.1
Ohio Ave. to Santa Monica Blvd.	Multi-Family	2	0	913	9,130	30	50	0	0	2.0%	2.0%	65.5	63.8
Montana Avenue													
Veteran Ave. to Levering Ave.	Multi-Family	2	0	1,158	11,580	30	50	0.5	0	2.0%	2.0%	66.5	64.9
Levering Ave. to Sepulveda Ave.	Single Family	2	0	1,527	15,270	35	75	0.5	0	2.0%	2.0%	65.7	63.8
west of Sepulveda Blvd.	Single Family	2	0	819	8,190	35	75	0	0	2.0%	2.0%	63.9	62.0
Sepulveda Avenue													
Ovada PI. to Sunset Blvd	Single Family	6	0	4,106	41,060	40	50	0.5	0	2.0%	2.0%	75.4	73.3
Sunset Blvd. to Montana Ave.	Mulit-Family	4	0	3,337	33,370	40	200	0.5	0	2.0%	2.0%	64.0	62.0
Wilshire Blvd. to Ohio Ave.	Mulit-Family	4	14	2,250	22,500	40	50	0	0	2.0%	2.0%	72.0	69.9
Sawtelle Blvd.													
Ohio Ave. to Santa Monica Blvd.	Multi-Family	2	0	880	8,800	30	45	0.5	0	2.0%	2.0%	66.0	64.4
south of Santa Monica Blvd.	Multi-Family	2	0	1,202	12,020	30	45	0.5	0	2.0%	2.0%	67.4	65.7
Weyburn Avenue			~		e 500	20	50	•	•	2.0%	2.0%	~ ~ ~	
Glendon Ave. to Westwood Blvd.	Multi-Family	2	0	650 726	6,500 7,260	30 30	50 50	0	0	2.0%	2.0%	64.0 64.5	62.4 62.6
Westwood Blvd. to Gayley Ave.	Multi-Family	2	0	120	1,200	30	90	U	U	2.0%	2.0%	04.5	02.0
Lindbrook Avenue	Adulti Familia	4	0	606	6.060	30	40	0	0	2.0%	2.0%	65.1	62 C
Westwood Blvd. to Gayley Ave.	Multi-Family	4	U	000	0,000	30	40	0	U	2.0%	2.0%	05.1	63.5
Wyton Dr. east of Hilgard Ave.	Single Family	2	0	276	2,760	30	75	0.5	0	2.0%	2.0%	57.6	56.0
Westholme Ave.	Single Family	-	v	210	2,100	00	10	0.0		2.070	2.0 %	01.0	50.0
east of Hilgard Ave.	Single Family	2	0	382	3,820	30	75	0.5	0	2.0%	2.0%	59.0	57.4
Manning Ave.	Onigie Family	-		002	0,020			0.0			2.070	00.0	01.4
east of Hilgard Ave.	Single Family	2	0	136	1,360	30	75	0.5	0	2.0%	2.0%	54.5	52.9
Beverly Gien Boulevard	Chighe Furthy	-	•		.,			0.0	-			04.0	01.0
Wilshire Blvd. to Comstock Ave.	Single Family	2	0	1,852	18,520	30	100	0	0	2.0%	2.0%	65.5	63.9
Comstock Ave, to Sunset Blvd.	Single Family	2	0	1,691	16,910	30	100	0	-10	2.0%	2.0%	55.1	53.5
Sunset Blvd. to Greendale Dr.	Single Family	2	0	2,053	20,530	30	25	0.5	0	2.0%	2.0%	73.6	72.0
Greendale to Mulholiand	Single Family	2	0	1,760	17,600	30	25	0.5	0	2.0%	2.0%	73.0	71.3
Ohio Avenue	chight tuniny	-											
Westwood Blvd. to Veteran Ave.	Multi-Family	2	.0	1.540	15,400	30	35	0	0	2.0%	2.0%	69.3	67.7
Veteran Ave. to Sepulveda Ave.	Multi-Family	2	0	1,933	19,330	30	35	0	0	2.0%	2.0%	70.3	68.7
Sepulveda Ave. to Beloit Ave.	Multi-Family	2	0	2,017	20,170	30	25	0.5	0	2.0%	2.0%	73.6	71.9
Beloit Ave. to Sawtelle Blvd.	Multi-Family	2	0	2,045	20,450	30	40	0.5	0	2.0%	2.0%	70.4	68.8
west of Sawtelle Blvd.	Multi-Family	2	0	1,962	19,620	30	40	0.5	0	2.0%	2.0%	70.3	68.6
Bellagio Road			-										
Chalon Rd. to Sunset Blvd.	Single Family	2	0	924	9,240	25	50	0.5	0	2.0%	2.0%	64.1	62.6
Bel-Air Rd.													
north of Sunset Blvd.	Single Family	2	0	534	5,340	30	75	0.5	0	2.0%	2.0%	60.5	58.8

<sup>1</sup> Distance is from the centerline of the roadway segment to the receptor location.

# Appendix 9 Supplementary Hazardous Materials Information

Hazardous Materials Locations

## HAZARDOUS MATERIALS LOCATIONS

(This information updates, verifies, and/or corrects the information presented in the 2002 EDR Report)

Location	Address	Comments
	Resource Conservati	on and Recovery Act Database
UCLA	405 Hilgard Avenue	This is the general address for the UCLA campus; UCLA generates, stores, treats, and/or disposes of hazardous wastes in compliance with all applicable federal and State laws
West Coast Spine Institute	100 UCLA Medical Plaza	100 UCLA Medical Plaza is owned and operated by a private developer.
Internal Medicine	100 UCLA Medical Plaza	100 UCLA Medical Plaza is owned and operated by a private developer.
741 Charles E. Young Drive South	741 Charles E. Young Drive South	These underground storage tanks (USTs) were remediated and replaced in 1993
	C	Cortese List
UCLA Fleet Maintenance	405 Hilgard Avenue	While this is the general address for the UCLA campus, it is assumed to refer to the USTs located at 741 Charles E. Young Drive South, which was remediated and replaced in 1993
UCLA Medical Center	10833 Le Conte Avenue	These USTs were removed in 1998
UCLA Fleet Service Garage	741 Charles E. Young Drive South	These underground storage tanks (USTs) were remediated and replaced in 1993
and the second second	Leaking Underground	d Storage Tank Incident Report
UCLA Fleet Service Garage	741 Charles E. Young Drive South	These underground storage tanks (USTs) were remediated and replaced in 1993
UCLA Fleet Maintenance	405 Hilgard Avenue	While this is the general address for the UCLA campus, it is assumed to refer to the USTs located at 741 Charles E. Young Drive South, which was remediated and replaced in 1993
UCLA Fleet Maintenance	405 Hilgard Avenue	While this is the general address for the UCLA campus, it is assumed to refer to the USTs located at 741 Charles E. Young Drive South, which was remediated and replaced in 1993
UCLA Medical Center	10833 Le Conte Avenue	These USTs were removed in 1998
	Underground	Storage Tank Database
Fleet Services	741 Charles E. Young Drive South	This site contains three USTs that were remediated and replaced in 1993 (one waste oil and two gasoline)
UCLA Chiller/Cogeneration	721 Charles E. Young Drive South	This site contains three USTs (three diesel)
UCLA -Ackerman	308 Westwood Plaza	This site contains one UST (diesel)
UCLA-Kerkhoff	308 Westwood Plaza	This site contains one UST (diesel)
UCLA	420 Westwood Plaza	This site contains one UST (diesel)
State of California	805 Hilgard Avenue	This UST was removed in 1993

Location	Address	Comments
UCLA (Mira Hershey Hall)	801 Hilgard Avenue	This UST was filled with LAFD approval and in accordance with all applicable code requirements in 1990
Southern Regional Library	305 De Neve Drive	This site contains one UST (diesel)
UCLA	405 Hilgard Avenue	This is the general address for the UCLA campus, and it is assumed to refer to all USTs located on campus
Facilities Hospital	10833 Le Conte Avenue	This site contains two USTs (diesel); in addition, four USTs were removed from this site in 1998
Young Hall	609 Charles E. Young Drive East	This site contains one UST (diesel)
Medical Plaza	200 Medical Plaza	This site contains one UST (diesel)
Gonda Building	695 Charles E. Young Drive South	This site contains one UST (diesel)
Boelter Hall	580 Portola Plaza	This site contains one UST (diesel)
Central Steam Plan	710 Charles E. Young Drive South	One UST was filled with LAFD approval and in accordance with all applicable code requirements and five USTs were removed from this site in 1995
Western Medical Steam Plant	1020 Veteran Avenue	Three USTs were removed from this site prior to 1990
Rehabilitation Building	1000 Veteran Avenue	One UST was removed from this site prior to 1990
Parking Structure 8	555 Westwood Plaza	One UST was removed from this site prior to 1990
Dykstra Hall	401 Charles E. Young Drive West	One UST was removed from this site in 1990
	Facility I	nventory Database
Fleet Services	741 Charles E. Young Drive South	These underground storage tanks (USTs) were remediated and replaced in 1993
Central Steam Plant		One UST was filled with LAFD approval and in accordance with all applicable code requirements and five USTs were removed from this site in 1995
University of California	705 Charles E. Young Drive South	This is the general site of the cogeneration building. There is no actual building on campus with this address.
UCLA	420 Westwood Plaza	This site contains one UST (diesel)
University of Cal – Los Angeles	801 Hilgard Avenue	This UST was filled in 1990
University of California Los Angeles	405 Hilgard Avenue	This is the general address for the UCLA campus, and it is assumed to refer to all USTs located on campus
University Central Office	1041 Tiverton Avenue	This is an off-campus location
	Historical US	T Registered Database
Fleet Services	741 Charles E. Young Drive South	These underground storage tanks (USTs) were remediated and replaced in 1993

(This information under	os verifios and/or ser	parts the information procented in the 2002 EDP Person
	Address	rects the information presented in the 2002 EDR Report)
Central Steam Plant		One UST was filled with LAFD approval and in accordance with all applicable code requirements and five USTs were removed from this site in 1995
Parking Structure 8	555 Westwood Plaza	One UST was removed from this site prior to 1990
Mira Hershey Hall	405 Hilgard Avenue	This UST was filled with LAFD approval and in accordance with all applicable code requirements in 1990
Department of Chemistry	405 Hilgard Avenue	This site contains one UST (diesel)
Warren Hall	900 Veteran Avenue	Current campus records indicate that there are no USTs of this site.
Facilities Hospital	10833 Le Conte Avenue	This site contains two USTs (diesel); in addition, four UST were removed from this site in 1998
Facilities/Rehabilitation Building	1000 Veteran Avenue	One UST was removed from this site prior to 1990
West Medical Campus Heat/Cool (Steam Plant)	1020 Veteran Avenue	Three USTs were removed from this site prior to 1990
	Facili	ty Index System
West Coast Spine Institute	100 UCLA Medical Plaza	100 UCLA Medical Plaza is owned and operated by a privat developer.
Internal Medicine	100 UCLA Medical Plaza	100 UCLA Medical Plaza is owned and operated by a privat developer.
UCLA	405 Hilgard Avenue	This is the general address for the UCLA campus; UCL generates, stores, treats, and/or disposes of hazardou wastes in compliance with all applicable federal and Stat laws
University of CA Los Angeles Dental	10833 Le Conte Avenue	UCLA generates, stores, treats, and/or disposes of hazardous wastes in compliance with all applicable federa and State laws at this location
University of California Los Angeles	10920 Wilshire Boulevard	This is an off-campus location
	Material Lice	nsing Tracking System
California, University of	10833 Le Conte Avenue	UCLA uses radioactive materials in compliance with a applicable federal and State laws at this location
		FTTS
No listing for UCLA		
	State or Loca	al ASTM Supplemental
No listing for UCLA		
	Waste I	Discharge System
University of California Los Angeles	405 Hilgard Avenue	This is the general address for the UCLA campus, but th entry likely refers to on-campus construction dewatering

I

Location	Address	Comments
	Haz	net Database
Parsons Energy & Chemicals	721 Charles E. Young Drive South	This is the cogeneration facility, which receives and/or disposes of hazardous materials
UCLA Medical Center	650 Charles E. Young Drive South	This is the hospital, which receives and/or disposes of hazardous materials
Advanced Elevator (Life Sciences Bldg.)	618 Charles E. Young Drive South	The precise type of hazardous materials received by, or disposed of, at this location is unknown
UCLA/Environmental Health and Safety	885 Levering Avenue	It is assumed that this entry refers to the previous disposal of asbestos as part of seismic remediation activities
University of CA Los Angeles Dental	10833 Le Conte Avenue	This is the hospital, which receives and/or disposes of hazardous materials
Facilities/Rehabilitation Building	1000 Veteran Avenue	This is the rehabilitation building, which receives and/or disposes of hazardous materials

Note: In September of 1998 Circle Drive was renamed Charles E. Young Drive in recognition of Chancellor Young's contributions to the University.

Hazardous Materials Search Results



# The EDR Radius Map with GeoCheck<sup>®</sup>

UCLA UCLA Los Angeles, CA 90024

Inquiry Number: 734861.1s

February 13, 2002

# *The* Source For Environmental Risk Management Data

3530 Post Road Southport, Connecticut 06490

**Nationwide Customer Service** 

Telephone: 1-800-352-0050 Fax: 1-800-231-6802 Internet: www.edrnet.com

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Thank you for your business. Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

#### TARGET PROPERTY INFORMATION

#### ADDRESS

UCLA LOS ANGELES, CA 90024

#### COORDINATES

 Latitude (North):
 34.0687

 Longitude (West):
 118.448

 Universal Tranverse Mercator:
 Zone 11

 UTM X (Meters):
 366364.3

 UTM Y (Meters):
 3770533

34.068780 - 34\* 4' 7.6" 118.448170 - 118\* 26' 53.4" Zone 11 366364.2 3770533.8

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: Source: 2434118-A4 BEVERLY HILLS, CA USGS 7.5 min quad index

#### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

#### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ( "reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

#### FEDERAL ASTM STANDARD

NPL.	National Priority List
Proposed NPL	Proposed National Priority List Sites
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information
	System
CORRACTS	Corrective Action Report
RCRIS-TSD.	Resource Conservation and Recovery Information System

#### STATE ASTM STANDARD

AWP	Annual Workplan Sites
Notify 65	Proposition 65 Records
Toxic Pits	Toxic Pits Cleanup Act Sites
	Solid Waste Information System
	Waste Management Unit Database
CA BOND EXP. PLAN	

#### FEDERAL ASTM SUPPLEMENTAL

CONSENT...... Superfund (CERCLA) Consent Decrees

ROD	Records Of Decision
Delisted NPL	National Priority List Deletions
HMIRS	Hazardous Materials Information Reporting System
MINES	
	Federal Superfund Liens
PADS.	PCB Activity Database System
RAATS	RCRA Administrative Action Tracking System
	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act

#### STATE OR LOCAL ASTM SUPPLEMENTAL

AST	Aboveground Petroleum Storage Tank Facilities
	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
LA Co. Site Mitigation	
AOCONCERN.	San Gabriel Valley Areas of Concern

#### EDR PROPRIETARY HISTORICAL DATABASES

#### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in bold italics are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

#### FEDERAL ASTM STANDARD

**CERCLIS-NFRAP:** As of February 1995. CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund Action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

A review of the CERC-NFRAP list, as provided by EDR, and dated 11/21/2001 has revealed that there is 1 CERC-NFRAP site within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
USVA MEDICAL CENTER WEST LA 13	11296 WILSHIRE BLVD	1/2 - 1 S	190	119

**RCRIS:** The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-LQG list, as provided by EDR, and dated 06/21/2000 has revealed that there is 1 RCRIS-LQG site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
UNIVERSITY OF CALIFORNIA LOS A	405 HILGARD AVE	1/2 - 1 ENE	AD131	78

**RCRIS:** The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 06/21/2000 has revealed that there are 13 RCRIS-SQG sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WEST COAST SPINE INSTITUTE	100 UCLA MEDICAL PLAZA	0-1/8 NNE	A2	6
INTERNAL MEDICINE	100 UCLA MEDICAL PLAZA	0-1/8 NNE	A3	6
Lower Elevation	Address	Dist / Dir	Map ID	Page
UNIV OF CA LOS ANGELES DENTAL	10833 LE CONTE AVE RM10	1/4 - 1/2 SE	54	29
LONDON CLEANERS	1073 GAYLEY AVE	1/2-1 S	T79	42
PIP PRINTING	1080 GLENDON AVE	1/2 - 1 SSE	V83	46
WESTWOOD CENTER	1100 GLENDON AVE SUTIE	1/2 - 1 SSE	V91	51
SYSTEM ONE	1105 GAYLEY AVE	1/2 - 1 S	X95	54
LA FIRE STATION 37	1090 VETERAN AVE	1/2 - 1 S	Z103	58
30 MIN FOTO QUICK	1145 WESTWOOD BLVD	1/2 - 1 SSE	AA105	60
USVA MEDICAL CENTER WEST LA 13	11296 WILSHIRE BLVD	1/2-1 S	190	119
WESTWOOD ELECTRICAL	1200 S SEPULVEDA BLVD	1/2 - 1 S	207	131
FEILER BROS WILSHIRE CONDOS	10580 WILSHIRE BLVD	1/2 - 1 ESE	AV221	136
FEDERAL BUREAU OF INVESTIGATIO	1260 S SEPULVEDA BLVD	1/2 - 1 S	AW224	139

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 08/08/2000 has revealed that there are 4 ERNS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
741 CIRCLE DRIVE SOUTH FLEET S	741 CIRCLE DRIVE SOUTH	1/4 - 1/2 ESE	D11	10
401 LAND FAIR AVE	401 LAND FAIR AVE	1/4 - 1/2 WNW	19	14
10570 SUNSET BLVD	10570 SUNSET BLVD	1/2 - 1 NNE	134	81
Lower Elevation	Address	Dist / Dir	Map ID	Page
UNOCAL #1065, 1157 W. GAYLEY	UNOCAL #1065, 1157 W. G	1/2 - 1 S	116	67

#### STATE ASTM STANDARD

**CAL-SITES:** Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control.

A review of the Cal-Sites list, as provided by EDR, has revealed that there is 1 Cal-Sites site within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
WILSHIRE WESTWOOD ASSOCIATES	10936 WILSHIRE BOULEVAR	1/2 - 1 SSE	AI152	93

CHMIRS: The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated 12/31/1994 has revealed that there is 1 CHMIRS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
Not reported	UCLA BUILDING 39 B	1/8 - 1/4 ENE	6	8

**CORTESE:** This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, has revealed that there are 9 Cortese sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
UCLA FLEET MAINTENANCE	405 HILGARD AVE	1/2 - 1 ENE	AD124	73
COMMERCIAL/RESIDENTIAL PROP.	248 COMSTOCK AVE	1/2 - 1 NE	189	118
PACIFIC HOLDING CO.	10644 BELLAGIO RD	1/2 - 1 N	AP201	127
Lower Elevation	Address	Dist / Dir	Map ID	Page
CHEVRON 93100	10984 LE CONTE	1/4 - 1/25	H28	19
SHELL #204-4530-4007	900 GAYLEY AVE	1/4 - 1/25	L44	26
UCLA MEDICAL CENTER	10833 LE CONTE	1/4 - 1/2 SE	060	32
76 PRODUCTS STATION #1065	1157 GAYLEY AVE W	1/2 - 1 SSE	AC122	71
MURDOCK PLAZA	10900 WILSHIRE	1/2 - 1 SSE	AG140	85
HERTZ - WEST LA	10951 WILSHIRE BLVD	1/2 - 1 SSE	AE158	96

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 01/17/2002 has revealed that there are 12 LUST sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
UCLA FLEET SERVICE GARAGE	741 CIRCLE DR S	1/4 - 1/2ESE	E15	12

#### Equal/Higher Elevation

UCLA FLEET MAINTENANCE COMMERCIAL/RESIDENTIAL PROP. PACIFIC HOLDING CO.

Lower Elevation

CHEVRON #9-3100 SHELL #204-4530-4007 UCLA MEDICAL CENTER 76 PRODUCTS STATION #1065 MURDOCK PLAZA HERTZ - WEST LA HERTZ - WEST LA CENTER WEST

Address	Dist / Dir	Map ID	Page
405 HILGARD AVE	1/2 - 1 ENE	AD124	73
248 COMSTOCK AVE	1/2 - 1 NE	189	118
10644 BELLAGIO RD	1/2 - 1 N	AP201	127
Address	Dist / Dir	Map ID	Page
10984 LE CONTE AVE	1/4 - 1/25	H25	17
900 GAYLEY AVE	1/4 - 1/25	L42	24
10833 LE CONTE	1/4 - 1/2 SE	060	32
1157 GAYLEY AVE W	1/2 - 1 SSE	AC122	71
10900 WILSHIRE BLVD W	1/2 - 1 SSE	AG150	91
10951 WILSHIRE BLVD	1/2 - 1 SSE	AE158	96
10951 WILSHIRE BLVD	1/2 - 1 SSE	AE159	97
10877 WILSHIRE BLVD	1/2 - 1 SSE	AF172	107

**UST:** The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 01/17/2002 has revealed that there are 27 UST sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
FLEET SERVICES, CSB-I, ROOM 12	741 CIRCLE DR S RM 1250	1/4 - 1/2ESE	D12	10
UCLA CHILLER/CO GENERATIONPL	721 CIRCLE DR S	1/4 - 1/2ESE	F18	14
UCLA - ACKERMAN	308 WESTWOOD PLZ	1/4 - 1/2 NNE	J32	21
UCLA - KERKHOFF	308 WESTWOOD PLZ	1/4 - 1/2 NNE	J33	21
UCLA	420 WESTWOOD PLZ	1/4 - 1/2 NE	M50	28
STATE OF CALIFORNIA	805 HILGARD AVE	1/2 - 1 ESE	Q65	36
UNIVERSITY OF CALLOS ANGELES	801 HILGARD AVE	1/2 - 1 ESE	Q67	37
SO, REGIONAL LIBRARY @ UCLA	305 DE NEVE DR	1/2 - 1 NW	77	41
UCLA	405 HILGARD AVE	1/2 - 1 ENE	AD125	74
BEL-AIR COUNTRY CLUB	10768 BELLAGIO RD	1/2 - 1 N	AN192	122
DAVID H MURDOCK	10644 BELLAGIO RD	1/2 - 1 N	AP202	128
Lower Elevation	Address	Dist / Dir	Map ID	Page
CHEVRON STATION #9-3100	10984 LE CONTE AVE	1/4 - 1/25	H30	21
SHELL OIL CO- ENVRMNT ANALYST	900 GAYLEY AVE	1/4 - 1/25	L45	26
FACILITIES/HOSPITAL	10833 LE CONTE AVE	1/4 - 1/2 SE	061	34
GTE-UNIVERSITY C.O.	1041 TIVERTON AVE	1/2 - 1 SSE	W94	54
LOS ANGELES FIRE STATION 37	1090 VETERAN AVE	1/2 - 1 S	Z101	57
TOSCO CORPORATION #30377	1157 GAYLEY AVE	1/2 - 1 SSE	AC117	67
MURDOCK PLAZA	10900 WILSHIRE BLVD	1/2 - 1 SSE	AG139	84
REGENTS UCLA	10920 WILSHIRE BLVD	1/2 - 1 SSE	AH144	87
SWISS BANK CORP.	10960 WILSHIRE BLVD	1/2 - 1 SSE	AE161	98
WESTWOOD PLACE	10866 WILSHIRE BLVD	1/2 - 1 SSE	AJ177	110
LONGFORD CONDOMINIUM ASSOC	10790 WILSHIRE BLVD	1/2 - 1 SE	AM188	117
PARK WILSHIRE LTD	10720 WILSHIRE BLVD	1/2 - 1 SE	AO198	126
URBAN PACIFIC CORP	10520 WILSHIRE BLVD	1/2 - 1 ESE	AU213	133
BRESLOW DEVEL CORP	10490 WILSHIRE BLVD	1/2 - 1 ESE	AS217	135
THAYER LTD INC	10580 WILSHIRE BLVD	1/2 - 1 ESE	AV220	136
U.S. GENERAL SERVICES ADM	1260 S SEPULVEDA BLVD	1/2 - 1 S	AW225	141

CA FID: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, has revealed that there are 39 CA FID UST sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
FLEET SERVICES, CSB-I, ROOM 12	741 S CIRCLE DR	1/4 - 1/2ESE	E20	15
CENTRAL STEAM PLANT	710 S CIRCLE DR	1/4 - 1/2 ESE	131	21
UNIVERISTY OF CALIFORNIA	705 S CIRCLE DR	1/4 - 1/2 ESE		21
UCLA	420 WESTWOOD PLZ	1/4 - 1/2NE	M49	28
UNK	10701 SUNSET	1/4 - 1/2NNE		28
UNIVERSITY OF CALLOS ANGELES	801 HILGARD AVE	1/2 - 1 ESE		37
MARYMOUNT HIGH SCHOOL	10643 W SUNSET BLVD	1/2 - 1 NNE		56
UNIVERSITY OF CALIFORNIA LOS A	405 HILGARD AVE	1/2 - 1 ENE		78
WARREN PONTIAC	400 S SEPULVEDA BLVD	1/2 - 1 W	191	121
BEL-AIR COUNTRY CLUB	10768 BELLAGIO RD	1/2 - 1 N	AN194	123
DAVID H MURDOCK	10644 BELLAGIO RD	1/2 - 1 N	AP200	126
Lower Elevation	Address	Dist / Dir	Map ID	Page
UCLA AMBULATORY CARE COMPLEX	100 MEDICAL PZ	1/4 - 1/2 SSE	16	13
CHEVRON STATION #3100	10984 LE CONTE AVE	1/4 - 1/2S	H27	18
R/S OIL COMPANY/C	900 GAYLEY AVE	1/4 - 1/25	L40	24
WARREN HALL	900 VETERAN AVE	1/4 - 1/2SSW		32
FACILITIES/HOSPITAL	10833 LE CONTE AVE	1/4 - 1/2SE	059	32
FACILITIES/REHABILITATION BLDG	1000 VETERAN AVE	1/2 - 1 SSW		39
WEST MEDICAL CAMPUS HEAT/COOL	1020 VETERAN AVE	1/2 - 1 SSW		40
UNIVERSITY CENTRAL OFFICE	1041 TIVERTON AVE	1/2 - 1 SSE		54
LOS ANGELES FIRE STATION 37	1090 VETERAN AVE	1/2 - 1 S	Z102	58
WESTWOOD TUNE-UP	1155 GLENDON AVE		AB111	64
SERVICE STATION 1065	1157 W GAYLEY AVE		AC121	70
FREDERICK W FIELD	10900 WILSHIRE BLVD		AG138	83
TISHMAN MIDVALE	10920 WILSHIRE BLVD		AH145	87
CLPECK	10936 WILSHIRE BLVD		AI151	92
WESTWOOD TUNE-UP	10889 WILSHIRE BLVD		AF153	93
HERTZ CORPORATION	10951 WILSHIRE BLVD		AE160	98
HINES INTERESTS	10960 WILSHIRE BLVD		AE165	102
TISHMAN WEST MANAGEMENT CORP	10880 WILSHIRE BLVD		AF168	104
WILSHIRE GLENDON ASSOCIATES LT	10877 WILSHIRE BLVD		AF175	109
WESTWOOD PLACE	10866 WILSHIRE BLVD		AJ176	110
	10990 WILSHIRE BLVD	1/2-1 S	AK180	111
ONE WESTWOOD OFFICE BUILDING	950 S SEPULVEDA BLVD		AL185	116
LOS ANGELES NATIONAL CEMETERY	10790 WILSHIRE BLVD	1/2 - 1 SE	AM187	117
LONGFORD CONDOMINIUM ASSOC	10790 WILSHIRE BLVD	1/2 - 1 SE	A0197	125
PARK WILSHIRE LTD			AQ205	125
VILLAGE CAR WASH	1360 WESTWOOD BLVD	1/2 - 1 SSE		
URBAN PACIFIC CORP	10520 WILSHIRE BLVD			133
OVERLAND PLUR	10490 WILSHIRE BLVD		AS215	134
THAYER LTD INC	10580 WILSHIRE BLVD	1/2 - 1 ESE	AV222	138

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 22 HIST UST sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
FLEET SERVICES, CSB-I, ROOM 12	741 CIRCLE DR S	1/4 - 1/2ESE	D10	9

#### Equal/Higher Elevation

#### Address

-quanting the			
CENTRAL STEAM PLANT	710 CIRCLE DR S	1/4 - 1/2 ESE F21	15
FACILITIES/PARKING STRUCTURE #	555 WESTWOOD PLZ	. 1/4 - 1/2NNE 24	16
SAWTELLE PRESSURE BREAK	10673 W SUNSET BLVD	1/2 - 1 NNE 68	37
MARYMOUNT HIGH SCHOOL	10643 SUNSET BLVD	1/2 - 1 NNE Y97	55
MIRA HERSHEY HALL	405 HILGARD AVE	1/2 - 1 ENE AD127	75
DEPARTMENT OF CHEMISTRY	405 HILGARD AVE	1/2 - 1 ENE AD129	77
Lower Elevation	Address	Dist / Dir Map ID	Page
93100	10984 LE CONTE	1/4 - 1/2S H29	20
R&S OIL COMPANY	900 GAYLEY AVE	1/4 - 1/2S L43	25
WARREN HALL	900 VETERAN AVE	1/4 - 1/2 SSW N55	31
FACILITIES/HOSPITAL	10833 LE CONTE AVE	1/4 - 1/2 SE 061	34
FACILITIES/REHABILITATION BLDG	1000 VETERAN AVE	1/2 - 1 SSW R70	39
WEST MEDICAL CAMPUS HEAT/COOL	1020 VETERAN AVE	1/2 - 1 SSW S75	40
FIRE STATION 37	1090 VETERAN AVE	1/2 - 1 S Z100	57
WESTWOOD TUNE-UP	1155 GLENDON AVE	1/2 - 1 SSE AB112	64
UNION OIL SERVICE STATION LEAS	1157 GAYLEY AVE	1/2 - 1 SSE AC120	70
SERVICE STATION 1065	1157 W GAYLEY AVE	1/2 - 1 SSE AC121	70
WESTWOOD TUNE-UP	10889 WILSHIRE BLVD	1/2 - 1 SSE AF155	95
HERTZ CORPORATION	10951 WILSHIRE BLVD	1/2 - 1 SSE AE157	96
LOS ANGELES NATIONAL CEMETERY	950 S SEPULVEDA BLVD	1/2 - 1 SSW AL184	116
USVA MEDICAL CENTER WEST LA 13	11296 WILSHIRE BLVD	1/2 - 1 S 190	119
VILLAGE CAR WASH	1360 WESTWOOD BLVD	1/2 - 1 SSE AQ206	130

#### FEDERAL ASTM SUPPLEMENTAL

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 10/29/2001 has revealed that there are 19 FINDS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WEST COAST SPINE INSTITUTE	100 UCLA MEDICAL PLAZA	0-1/8 NNE	A2	6
INTERNAL MEDICINE	100 UCLA MEDICAL PLAZA	0-1/8 NNE	A3	6
UNIVERSITY OF CALIFORNIA LOS A	405 HILGARD AVE	1/2 - 1 ENE	AD131	78
Lower Elevation	Address	Dist / Dir	Map ID	Page
LUZ ENGINEERING CORP	924 WESTWOOD BLVD	1/4 - 1/2 SSE	K38	23
UNIV OF CA LOS ANGELES DENTAL	10833 LE CONTE AVE RM10	1/4 - 1/2SE	54	29
LONDON CLEANERS	1073 GAYLEY AVE	1/2 - 1 S	T79	42
PIP PRINTING	1080 GLENDON AVE	1/2 - 1 SSE	V83	46
MR. CHRISTAL INC (DONALD CHRI	1100 GLENDON AVE 1250	1/2 - 1 SSE	V90	51
WESTWOOD CENTER	1100 GLENDON AVE SUTIE	1/2 - 1 SSE	V91	51

Dist / Dir

Map ID Page

#### Lower Elevation

#### Address

Lower Elevation	Address	Dist / Dir	r M	lap ID	Page
SYSTEM ONE	1105 GAYLEY AVE	1/2 - 1	s x	95	54
LA FIRE STATION 37	1090 VETERAN AVE	1/2 - 1 :	S Z	103	58
30 MIN FOTO QUICK	1145 WESTWOOD BLVD	1/2 - 1 :	SSE A	A105	60
UNIVERSITY OF CALIFORNIA LOS A	10920 WILSHIRE BLVD	1/2 - 1 \$	SSE A	H143	86
ALTERNA INC	10877 WILSHIRE BLVD	1/2 - 1 :	SSE A	F174	109
KAUFMAN & BROAD HOME CORP	10990 WILSHIRE BLVD	1/2 - 1 5	S A	K178	110
USVA MEDICAL CENTER WEST LA 13	11296 WILSHIRE BLVD	1/2 - 1 3	S 1.	90	119
WESTWOOD ELECTRICAL	1200 S SEPULVEDA BLVD	1/2 - 1 5	S 2	07	131
FEILER BROS WILSHIRE CONDOS	10580 WILSHIRE BLVD	1/2 - 1 1	ESE A	V221	136
FEDERAL BUREAU OF INVESTIGATIO	1260 S SEPULVEDA BLVD	1/2 - 1 5	S A	W224	139

MLTS: The Material Licensing Tracking System is maintained by the Nuclear Regulatory Commission and contains a list fo approximately 8,100 sites which possess or use radioactive materials and are subject to NRC licensing requirements.

A review of the MLTS list, as provided by EDR, and dated 10/25/2001 has revealed that there are 3 MLTS sites within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
CALIFORNIA, UNIVERSITY OF WHITTAKER CORP	10833 LE CONTE AVENUE 10880 WILSHIRE BLVD	1/4 - 1/2 SE 1/2 - 1 SSE	O58	32 104
USVA MEDICAL CENTER WEST LA 13	11296 WILSHIRE BLVD	1/2-1 S	190	119

FTTS: FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act) over the previous five years. To maintain currency, EDR contacts the Agency on a quarterly basis.

A review of the FTTS list, as provided by EDR, and dated 10/25/2001 has revealed that there are 2 FITS sites within approximately 1 mile of the target property.

	Address	Dist / Dir	Map ID	Page
MR. CHRISTAL INC (DONALD CHRI	1100 GLENDON AVE 1250	1/2 - 1 SSE		51
ALTERNA INC	10877 WILSHIRE BLVD	1/2 - 1 SSE		109

#### STATE OR LOCAL ASTM SUPPLEMENTAL

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the CLEANERS list, as provided by EDR, and dated 07/27/2001 has revealed that there is 1 CLEANERS site within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
RITZ DRY CLEANERS	1074 GAYLEY	1/2-1 S	T81	45

WDS:California Water Resources Control Board - Waste Discharge System.

A review of the CA WDS list, as provided by EDR, and dated 07/19/2001 has revealed that there are 2 CA WDS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
UNIVERSITY OF CALIFORNIA LOS A	405 HILGARD AVE	1/2 - 1 ENE	AD131	78
Lower Elevation	Address	Dist / Dir	Map ID	Page
ONE WESTWOOD OFFICE BUILDING	10990 WILSHIRE BLVD	1/2 - 1 S	AK180	111

**HAZNET:** The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency

A review of the HAZNET list, as provided by EDR, has revealed that there are 110 HAZNET sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
1X PHI KAPPA SIGMA HOUSING COR	10938 STRATHMORE DRIVE	0-1/8 WSW	1	6
UCLA	641 LANDFAIR	1/8 - 1/4 SSW	B4	7
MILLAR ELEVATOR COMPANY	641 LANDFAIR	1/8 - 1/4 SSW	B5	7
UCLA/LANDFAIR APARTMENT	558 GLENROCK AVE	1/8 - 1/4 WSW	C7	8
UCLA	564 GLENROCK	1/8 - 1/4 SW	C8	8 9 9
JOHN WEISS	558 GLENROCK AVE 564 GLENROCK 655 LEVERING	1/8 - 1/4 SW	9	9
UCLA MED CENTER	480 GAYLEY ST	1/4 - 1/2 WNW	13	11
VILLAGE HOUSE CONDOMINIUM HOME	11044 OPHIR DR	1/4 - 1/2W	14	11
PARSONS ENERGY & CHEMICALS GRO	721 CIRCLE DR SOUTH	1/4 - 1/2 ESE	F17	13
UCLA MEDICAL CENTER	650 CIRCLE DR SOUTH	1/4 - 1/2 ESE	36	23
ADVANCE ELEVATOR INC	618 CHARLES E YOUNG DR	1/4 - 1/2 ESE	52	28
THE LOS ANGELES HILLEL COUNCIL	574 HILGARD AVE	1/2 - 1 E	72	39
MARYMOUNT HIGH SCHOOL	10643 SUNSET BLVD	1/2 - 1 NNE	Y99	56
MARY WHITE	555 PERUGIA WAY	1/2 - 1 N	123	73
UNIVERSITY OF CALIFORNIA-LA	405 HILGARD AVE	1/2 - 1 ENE	AD126	75
UNIVERSITY OF CALIFORNIA-LOS A	405 HILGARD AVE	1/2 - 1 ENE	AD128	76
UCLA/FOWLER MUSEUM OF CULTURAL		1/2 - 1 ENE	AD130	77
YALE UNIVERSITY	520 SO SEPULVEDA	1/2 - 1 WSW		79
JOAN REAL ESTATE INC	220 BENTLEY CIRCLE	1/2 - 1 NW	135	81
BEL AIR COUNTRY CLUB	10768 BELLAGIO ROAD	1/2 - 1 N	AN193	122
UCLA ENVIRONMENT HEALTH SAFETY		1/2 - 1 N	204	130
DOUG'S TUG INC	222 WOODRUFF AVENUE	1/2 - 1 NE	219	136
Lower Elevation	Address	Dist / Dir	Map ID	Page
ONYX HOLDINGS INC	11023 STRATHMORE DR	1/4 - 1/2 SSW	G22	16
DELTA-NU CHAPTER OF KAPPA SIGM	11024 STRATHMORE DR	1/4 - 1/2SSW	G23	16
UCLA / ENVIRONMENT HEALTH & SA	885 LEVERING AVE	1/4 - 1/2S	26	18
CHEVRON 93100	10984 LE CONTE	1/4 - 1/25	H28	19
1X THREE-S PROPERTIES	939 BROXTON	1/4 - 1/2S	35	22
COPYMAT	923 WESTWOOD BLVD		K37	23
WESTWOOD PLAZA_TRUST CO OF THE	924 WESTWOOD BLVD	1/4 - 1/2 SSE	K39	23
SHELL	900 GAYLEY	1/4 - 1/25	L41	24

Dist / Dir

Map ID

Page

#### **Lower Elevation**

Address

Lower Lievanon	Hudicoo	DISC/ DI	mapie	ruge
GEFFEN PLAYHOUSE INC	10886   ECONTE AVE	1/4 - 1/2 SSE	46	26
VILLAGE 1-HR	929 WESTWOOD BLVD	1/4 - 1/2 SSE	K47	27
VILLAGE PHOTO	929 WESTWOOD BLVD	1/4 - 1/2 SSE	KAR	27
WESTWOOD PROMENADE	1001 WESTWOOD BLVD	1/4 1/2000	52	20
WESTWOOD PROMEINADE	1001 WESTWOOD BEVD	1/4 · 1/200E	55	29
UNIV OF CALOS ANGELES DENTAL	10833 LE CONTE AVE RMIU	1/4 - 1/2 SE	54	29
WESTWOOD VILLAGE CHINOPRACTIC	1015 GATLET AVE	1/4 - 1/25	5/	32
PAUL BECKSTEAD DDS	1033 GAYLEY AVE, #102	1/2 - 1 5	P62	35
WESTWOOD PROF BLDG	1033 GAYLEY AVE	1/2 - 1 S	P63	36
WESTWOOD HORIZONS TRUST	947 TIVERTON AVE	1/2 - 1 SE	64	36
CO MADISON MARQUETTE RETAIL SR	10861 WEYBURN AVE	1/2 - 1 SSE	69	38
FACILITIES/REHABILITATION BLDG	1000 VETERAN AVE	1/2 - 1 SSW	R70	39
1X WESTWOOD MARQUIS HOTEL	930 HILLGUARD	1/2 - 1 SE	73	40
JAKOSKY TRUST	1063 GAYLEY AVE	1/2 - 1 S	T76	41
HELENS CYCLES	1071 GAYLEY AVE	1/2 - 1 S	T78	42
LONDON CLEANERS	1073 GAYLEY AVE	1/2 - 1 S	779	42
UCLA - ENVIBONMENT HEALTH & SA	1072 GAYLEY	1/2 - 1 S	T80	44
BITZ DRY CI FANERS	1074 GAYLEY	1/2-1 5	T81	45
MARIA HERSHOVIC	1095 BROXTON	1/2 . 1 SSE	1182	46
GEFFEN PLAYHOUSE INC VILLAGE 1-HR VILLAGE PHOTO WESTWOOD PROMENADE UNIV OF CA LOS ANGELES DENTAL WESTWOOD VILLAGE CHIROPRACTIC PAUL BECKSTEAD DDS WESTWOOD HORIZONS TRUST CO MADISON MARQUETTE RETAIL SR FACILITIES/REHABILITATION BLDG 1X WESTWOOD MARQUIS HOTEL JAKOSKY TRUST HELENS CYCLES LONDON CLEANERS UCLA - ENVIRONMENT HEALTH & SA RITZ DRY CLEANERS MARIA HERSHOVIC THRIFTY PAYLESS DRUGS WESTWOOD DOME PARTNERS RITE AID #5433 WESTWOOD MARQUIS WELLS FARGO BANK JOGOPULOS CHIROPRACTIC CENTER WESTWOOD CENTER GTE CALIFORNIA SYSTEM ONE LA FIRE STATION 37 THE ITALIAN CONSULATE 30 MINUTE FOTO QUICK FOX PHOTO INC ALPHA GRAPHICS VILLA WESTWOOD ASSOCIATES CINAMERICA THEATRES WOLF CAMERA #05017 TOSCO CORPORATION, STATION #30 TERI ANN GIBSON DDS UNOCAL SVC STA #1065 JOHN FAWCETT UNION #2 ALAN ROBERTS MD INC BEACON PROPERTIES LP OPPENHEIMER MURDOCK PLAZA WASHINGTON MUTUAL 10920 WIL SHIRE BLDG/LIC BEGENTS	1101 WESTWOOD BLVD	1/2 1 995	1184	17
	1000 WESTWOOD BLVD	1/2 1 000	1185	47
	1101 WESTWOOD BLVD	1/2 1 000	1106	40
HITE AID #5433		1/2-1 335	000	40
WESTWOOD MARQUIS	930 HILLGUARD AVE	1/2-1 SE	8/	49
WELLS FARGO BANK	10925 KINHOSS AVE	1/2 - 1 SSE	088	50
JOGOPULOS CHIROPRACTIC CENTER	1100 GLENDON AVE	1/2 - 1 SSE	V89	50
WESTWOOD CENTER	1100 GLENDON AVE SUTIE	1/2 - 1 SSE	V91	51
GTE CALIFORNIA	1041 TIVERTON	1/2 - 1 SSE	W92	53
SYSTEM ONE	1105 GAYLEY AVE	1/2 - 1 S	X95	54
SYSTEM ONE	1105 GAYLEY AVENUE	1/2 - 1 S	X96	55
LA FIRE STATION 37	1090 VETERAN AVE	1/2-1 S	Z103	58
THE ITALIAN CONSULATE	1023 HILGARD AVENUE	1/2 - 1 SE	104	60
30 MIN FOTO QUICK	1145 WESTWOOD BLVD	1/2 - 1 SSE	AA105	60
30 MINUTE FOTO QUICK	1144 WESTWOOD BLVD	1/2 - 1 SSE	AA106	61
FOX PHOTO INC	1161 WESTWOOD BLVD	1/2 - 1 SSE	AA107	62
AL PHA GRAPHICS	10910 LINDBBOOK DB	1/2 - 1 SSE	AA108	63
VILLA WESTWOOD ASSOCIATES	10920 LINDBBOOK AVE	1/2 - 1 SSE	AA109	64
CINAMERICA THEATRES	10925 LINDBROOK DRIVE	1/2 . 1 SSE	AA110	64
WOLE CAMERA #05017	1165 WESTWOOD BLVD	1/2 - 1 SSE	113	65
TOPCO CORRORATION STATION #30	1157 W GAVLE AVE	1/2 . 1 SSE	AC114	65
TEDI ANN CIRCON DDC	10945 LINDBROOK DRIVE	1/2 1 995	115	66
UNOCAL OVO OTA #1065	1157 W GAVLEY AVE	1/2 - 1 OOL	AC119	69
UNUCAL SVC STA #1005	1157 W GATLET AVE	1/2 1 000	AC110	60
JUHN FAWLETT UNION #2	10001 WILCHIDE DI VD OTE	1/2 1 000	ACTIS	09
ALAN HUBERTS MD INC	10921 WILSHINE BLVD STE	1/2 - 1 335	AE133	00
BEACON PROPERTIES LP	10880 WILSHIRE BLVD	1/2 - 1 SSE	AF 136	82
OPPENHEIMER	10880 WILSHIRE BLVD	1/2-1 SSE	AF137	83
MURDOCK PLAZA	10900 WILSHIRE BLVD	1/2 - 1 SSE	AG139	84
WASHINGTON MUTUAL	10901 WILSHIRE BLVD	1/2 - 1 SSE	AG141	85
10520 WILDI III LE DED GIOO TIL GEITTO	TOOLO THEOTHICE			
EDWARD M LEHRNER DDS	10921 WILSHIRE BLVD		AH146	87
TOMAS ANDERKVIST DDS	10921 WILSHIRE BLVD #11		AH147	88
TRACY GOLDEN DMD	10921 WILSHIRE BLVD	1/2 - 1 SSE	AH148	89
MULLER COMPANY WW WESTWOOD LP	10921 WILSHIRE BLVD	1/2 - 1 SSE		90
OXY WESTWOOD CORPORATION	10889 WILSHIRE BLVD.#10		AF154	94
TISHMAN SPEYER	10940 WILSHIRE BLVD		AI156	95
BEACON PROPERTIES LP	10960 WILSHIRE BLVD	1/2 - 1 SSE		98
EQUITY OFFICE PROPERTIES	10960 WILSHIRE BLVD		AE163	99
				101
TISHMAN WEST MANAGEMENT CORP	10960 WILSHIRE BLVD	1/2 - 1 33E	AE164	101

Lower Elevation	Address	Dist / Dir	Map ID	Page
SABIN PLAZA	10960 WILSHIRE BLVD	1/2 - 1 SSE	AE166	102
EQUITY OFFICE PROP MANAGEMENT	10880 WILSHIRE BLVD	1/2 - 1 SSE	AF167	103
EQUITY OFFICE	10880 WILSHIRE BLVD	1/2 - 1 SSE	AF170	104
WILSHIRE WEST PLAZA	10880 WILSHIRE BLVD	1/2 - 1 SSE	AF171	106
CALIFORNIA SUN CARE	10877 WILSHIRE BLVD	1/2 - 1 SSE	AF173	108
LASALLE PARTNERS CORP	10990 WILSHIRE BLVD	1/2 - 1 S	AK179	110
GENERAL SERVICES ADMINISTRATIO	11000 WILSHIRE BLVD	1/2 - 1 S	AK181	112
AVCO CENTER	10850 WILSHIRE BLVD STE	1/2 - 1 SSE	182	114
AVCO CENTER CORP	10850 WILSHIRE BLVD	1/2 - 1 SSE	AJ183	115
LA NATIONAL CEMERTARY INC	950 S SEPULVEDA BLVD	1/2 - 1 SSV	V AL186	116
DOUBLE TREE HOTEL, INC	10740 WILSHIRE BLVD	1/2 - 1 SE	195	124
MILLAR ELEVATOR	11301 WILSHIRE BLVD BL	1/2 - 1 S	196	124
JAMES UDALLA	1301 WESTWOOD BLVD	1/2 - 1 SSE	199	126
NATIONAL GENETICS INSTITUTE	1333 WESTWOOD BLVD	1/2 - 1 SSE	203	128
RED BULL CONSTRUCTION INC	10601 WILSHIRE BLVD	1/2 - 1 ESE	AR208	131
WILSHIRE REGENTS	10501 WILSHIRE	1/2 - 1 ESE	AS209	132
MCQUAY	10535 WILSHIRE	1/2 - 1 ESE	AT210	132
THE HOTEL DE CAPRI	10587 WILSHIRE BLVD	1/2 - 1 ESE	AR211	133
THE DORCHESTER	10520 WILSHIRE BLVD	1/2 - 1 ESE	AU214	133
THE BLAIR HOUSE	10490 WILSHIRE BLVD	1/2 - 1 ESE	AS216	135
WILSHIRE WESTWOOD	10530-40 WILSHIRE BLVD.	1/2 - 1 ESE	AT218	135
FEILER BROS WILSHIRE CONDOS	10580 WILSHIRE BLVD	1/2 - 1 ESE	AV221	136
FEDERAL BUREAU INVESTIGATION	1260 SO SEPULVEDA BLVD	1/2-1 S	AW223	138
FEDERAL BUREAU OF INVESTIGATIO	1260 S SEPULVEDA BLVD	1/2-1 S	AW224	139

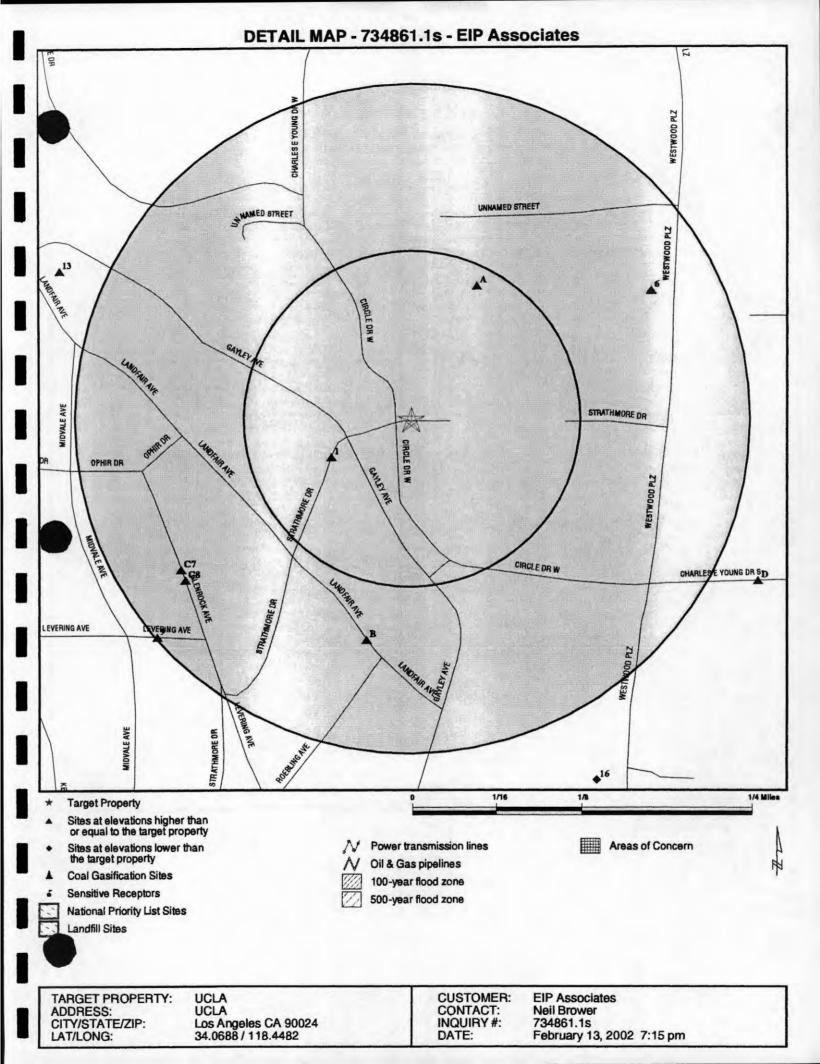
HMS: Los Angeles County Industrial Waste and Underground Storage Tank Sites.

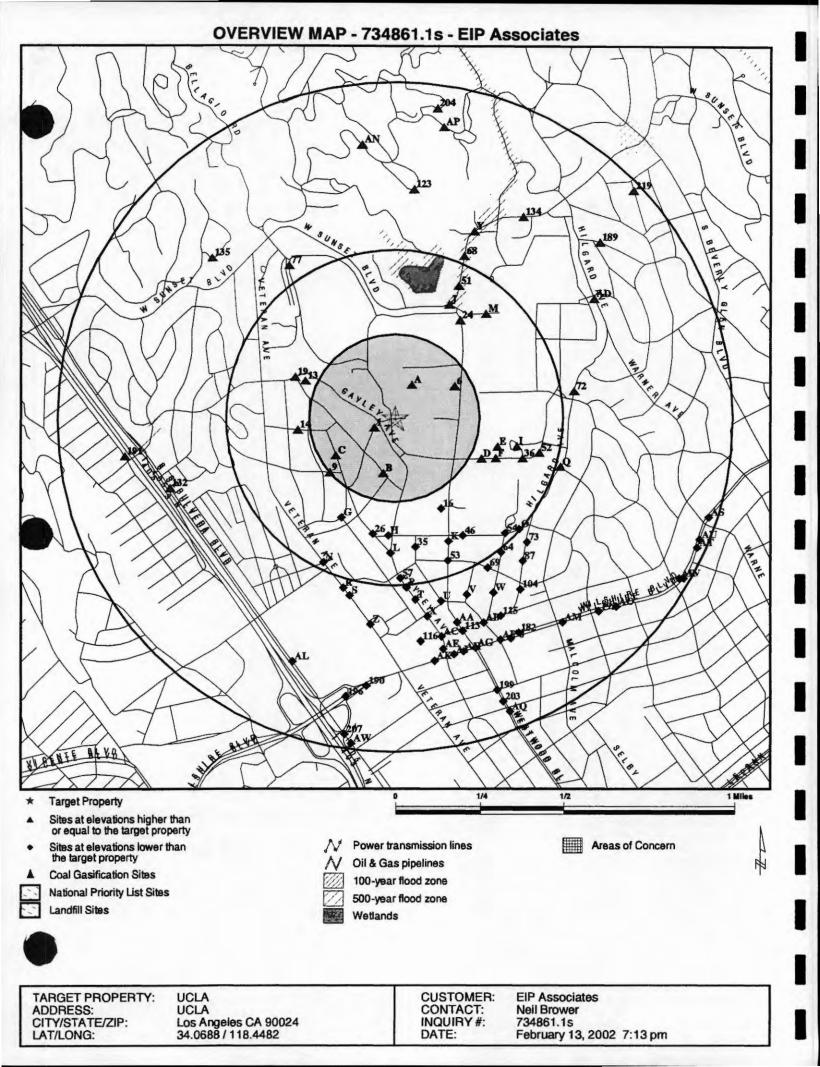
A review of the LOS ANGELES CO. HMS list, as provided by EDR, has revealed that there is 1 LOS ANGELES CO. HMS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WARREN PONTIAC	400 S SEPULVEDA BLVD	1/2 - 1 W	191	121

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)		
ORGANICLEAN	FINDS, FTTS		
UNOCAL #5275	LUST		
REGENTS OF THE UNIV. OF CA.	UST		
VETERANS ADMINISTRATION	UST		
VETERAN ADMINISTRATION	UST		
VETERAN AFFAIRS	UST		
VETERANS ADMINISTRATION	UST		
1X CAL-VEST REALTY	HAZNET		
MARK A COLLONS DDS, INC	HAZNET		
BARBARA COPELAND	HAZNET		
EMMANUEL LUBEZKI	HAZNET		
ROY A MEALS MD INC	HAZNET		
UNIVERSITY CARDIOVASCULAR	HAZNET		
UNIVERSITY SPINE ASSOCIATES	HAZNET		
PERRY WONG DDS	HAZNET		
VETERAN ADMIN BLDG	HAZNET		
OCCIDENTAL PETROLEUM CORP	HAZNET		
LABEX CORPORATION	HAZNET		
BEACON PROPERTY LP	HAZNET		
DONALD J ESLICK DDS	HAZNET		
DR DENISE GALANTER DDS	HAZNET		
SUSAN GORAN DDS	HAZNET		
WEST WOOD PEDIATRIC DENTAL GROUP	HAZNET		
THE WESTWOOD MEDICAL PLAZA LP	HAZNET		
L B PROPERTY MANAGEMENT	HAZNET		
PICK FAMILY TRUST C/O LB PROPERTY	HAZNET		
WILSHIRE HOLMBY	HAZNET		
MIRABELLA CONDOMINIUMS	HAZNET		
DONN AND MURPHY AREA STORAGE AREA	ERNS		





## MAP FINDINGS SUMMARY

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Proposed NPL         1.000         0         0         0         0         NF           CERCLIS         1.000         0         0         0         0         NF           CCERC.NFRAP         1.000         0         0         0         0         NF           CORRACTS         1.000         0         0         0         0         NF           RCRIS-TSD         1.000         0         0         0         1         NF           RCRIS-TSD         1.000         0         0         0         1         NF           RCRIS-TSD         1.000         0         0         1         NF           RCRIS-Sm. Quan. Gen.         1.000         0         0         2         2         NF           STATE ASTM STANDARD         1.000         0         0         0         1         NF           Cal-Sites         1.000         0         0         0         1         NF           Cortese         1.000         0         0         0         NF           Notify 65         1.000         0         0         0         NF           State Landfill         1.000         0         0 <th>Total Plotted</th> <th>&gt;1</th> <th>1/2 - 1</th> <th>1/4 - 1/2</th> <th>1/8 - 1/4</th> <th>&lt; 1/8</th> <th>Search Distance (Miles)</th> <th>Target Property</th> <th>Database</th>	Total Plotted	>1	1/2 - 1	1/4 - 1/2	1/8 - 1/4	< 1/8	Search Distance (Miles)	Target Property	Database	
Proposed NPL         1.000         0         0         0         0         N           CERCLIS         1.000         0         0         0         0         N           CERC-NFRAP         1.000         0         0         0         0         N           CCRRACTS         1.000         0         0         0         0         N           RCRIS-TSD         1.000         0         0         0         1         N           RCRIS Lg. Quan. Gen.         1.000         0         0         0         1         N           FCRIS Sm. Quan. Gen.         1.000         0         0         0         1         N           ERNS         1.000         0         0         0         1         N           STATE ASTM STANDARD         1.000         0         0         0         N           AWP         1.000         0         0         0         N         N           Cal-Sites         1.000         0         0         0         N         N           Cortese         1.000         0         0         0         N         N           Coxic Pits         1.000         0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td>FEDERAL ASTM STANDARD</td>								2	FEDERAL ASTM STANDARD	
CERCLIS         1.000         0         0         0         0         NR           CERC-NFRAP         1.000         0         0         0         0         NR           CORRACTS         1.000         0         0         0         0         NR           RCRIS-TSD         1.000         0         0         0         0         NR           RCRIS-TSD         1.000         0         0         0         1         NR           RCRIS-TSD         1.000         0         0         0         1         NR           RCRIS-TSD         1.000         0         0         1         NR           RCRIS-TSD         1.000         0         0         1         NR           STATE ASTM STANDARD         1.000         0         0         1         NR           AWP         1.000         0         0         0         1         NR           Cortese         1.000         0         0         0         NR         NR           Cortese         1.000         0         0         0         NR         NR           Cortese         1.000         0         0         0	0	NR	0	0	0	0	1.000		NPL	
CERC-NFRAP         1.000         0         0         0         1         NF           CORRACTS         1.000         0         0         0         0         NF           RCRIS-TSD         1.000         0         0         0         0         NF           RCRIS-TSD         1.000         0         0         0         1         NF           RCRIS-TSD         1.000         0         0         0         1         NF           RCRIS-TSD         1.000         0         0         2         2         NF           STATE ASTM STANDARD         1.000         0         0         0         NF           AWP         1.000         0         0         0         NF           Cal-Sites         1.000         0         0         0         NF           Cortese         1.000         0         0         0         NF           Toxic Pits         1.000         0         0         0         NF           Cotese         1.000         0         0         0         NF           LUST         1.000         0         0         0         NF           CA Bond Exp. Pla		NR	0	0	0	0	1.000		Proposed NPL	
CORRACTS         1.000         0         0         0         0         N           RCRIS-TSD         1.000         0         0         0         0         N           RCRIS-TSD         1.000         0         0         0         1         N           RCRIS-Sm. Quan. Gen.         1.000         2         0         1         10         N           ERNS         1.000         0         0         2         2         N           STATE ASTM STANDARD         1.000         0         0         0         1         N           AWP         1.000         0         0         0         1         N           Cal-Sites         1.000         0         0         0         1         N           Childs         1.000         0         0         0         N         N           Cottese         1.000         0         0         0         N         N           NullDS/SWAT         1.000         0         0         0         N         N           CA Bond Exp. Plan         1.000         0         0         0         N         N           UST         1.000		NR	0	0	0	0	1.000		CERCLIS	
RCRIS-TSD         1.000         0         0         0         0         NF           RCRIS Lg. Quan. Gen.         1.000         2         0         1         NF           RCRIS Sm. Quan. Gen.         1.000         2         0         1         NF           ERNS         1.000         0         0         2         2         NF           STATE ASTM STANDARD           AWP         1.000         0         0         0         NF           Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan= 2           State Landfill         1.000         0         0         0         NF           Colspan= 2         NF           Colspan= 2         1.000         0         0         NF           State Landfill         1.000         0         0         NF           Colspan= 2         1.000         0         0         NF           Colspan= 2         1.000         0         0         NF           Colspan= 2         1.000         0         0         NF <td col<="" td=""><td>1</td><td>NR</td><td>1</td><td>0</td><td>0</td><td>0</td><td>1.000</td><td></td><td>CERC-NFRAP</td></td>	<td>1</td> <td>NR</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>1.000</td> <td></td> <td>CERC-NFRAP</td>	1	NR	1	0	0	0	1.000		CERC-NFRAP
FCRIS Lg. Quan. Gen.         1.000         0         0         1         NF           RCRIS Sm. Quan. Gen.         1.000         2         0         1         10         NF           ERNS         1.000         0         0         2         2         NF           STATE ASTM STANDARD	0	NR	0		0		1.000		CORRACTS	
RCRIS Sm. Quan. Gen.         1.000         2         0         1         10         NF           STATE ASTM STANDARD           AWP         1.000         0         0         0         0         0         NF           Cal-Sites         1.000         0         0         0         0         1         NF           Cal-Sites         1.000         0         0         0         1         NF           Children         1.000         0         0         0         1         NF           Cortese         1.000         0         0         0         0         NF           Notify 65         1.000         0         0         0         NF           Toxic Pits         1.000         0         0         0         NF           State Landfill         1.000         0         0         0         NF           LUST         1.000         0         0         0         NF           LUST         1.000         0         0         0         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         NF           FEDERAL ASTM SUPPLEMENTAL	0	NR	0	0	0	0	1.000		RCRIS-TSD	
FCRIS Sm. Quan. Gen.         1.000         2         0         1         10         NF           ERNS         1.000         0         0         2         2         NF           STATE ASTM STANDARD	1	NR	1	0	0	0	1.000		RCRIS Lg. Quan. Gen.	
ERNS         1.000         0         0         2         2         NF           STATE ASTM STANDARD           AWP         1.000         0         0         0         0         NF           Cal-Sites         1.000         0         0         0         1         NF           Cal-Sites         1.000         0         0         1         NF           Cortese         1.000         0         0         0         NF           Notify 65         1.000         0         0         0         NF           Toxic Pits         1.000         0         0         0         NF           VMUDS/SWAT         1.000         0         0         0         NF           CA Bond Exp. Plan         1.000         0         0         0         NF           CA FID UST         1.000         0         0         0         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         NF           FIDS         1.000         0         0         0         NF           PUST         1.000         0         0         0         NF           FID S	13	NR	10	1	0	2	1.000		RCRIS Sm. Quan. Gen.	
AWP         1.000         0         0         0         0         NF           Cal-Sites         1.000         0         0         1         NF           CHMIRS         1.000         0         1         0         0         NF           Cortese         1.000         0         0         3         6         NF           Notify 65         1.000         0         0         0         0         NF           Toxic Pits         1.000         0         0         0         0         NF           State Landfill         1.000         0         0         0         NF           LUST         1.000         0         0         0         NF           LUST         1.000         0         0         0         NF           CA Bond Exp. Plan         1.000         0         0         0         NF           CA FID UST         1.000         0         0         0         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         NF           FINDS         1.000         0         0         0         NF           HIST S         1.000		NR		2	0		1.000		ERNS	
Cal-Sites         1.000         0         0         1         NF           CHMIRS         1.000         0         1         0         0         NF           Cortese         1.000         0         0         3         6         NF           Notify 65         1.000         0         0         0         0         NF           Toxic Pits         1.000         0         0         0         0         NF           State Landfill         1.000         0         0         0         NF           WMUDS/SWAT         1.000         0         0         0         NF           LUST         1.000         0         0         0         NF           LUST         1.000         0         0         0         NF           LUST         1.000         0         0         0         NF           CA FID UST         1.000         0         0         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         NF           FINDS         1.000         0         0         0<									STATE ASTM STANDARD	
Cal-Sites         1.000         0         0         1         NF           CHMIRS         1.000         0         1         0         0         NF           Cortese         1.000         0         0         3         6         NF           Notify 65         1.000         0         0         0         0         NF           Toxic Pits         1.000         0         0         0         0         NF           State Landfill         1.000         0         0         0         NF           WMUDS/SWAT         1.000         0         0         0         NF           LUST         1.000         0         0         0         NF           LUST         1.000         0         0         0         NF           CA FID UST         1.000         0         0         0         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         NF           FINDS         1.000         0	0	NR	0	0	0	0	1.000		AWP	
CHMIRS         1.000         0         1         0         0         NF           Cortese         1.000         0         0         3         6         NF           Notify 65         1.000         0         0         0         0         0         NF           Toxic Pits         1.000         0         0         0         0         0         NF           State Landfill         1.000         0         0         0         0         NF           WMUDS/SWAT         1.000         0         0         0         0         NF           LUST         1.000         0         0         0         NF         NF           LUST         1.000         0         0         0         NF           CA Bond Exp. Plan         1.000         0         0         NF           UST         1.000         0         0         0         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         NF           CONSENT         1.000         0         0         0         NF           ROD         1.000         0         0         0         NF		NR								
Cortese         1.000         0         0         3         6         NF           Notify 65         1.000         0         0         0         0         0         NF           Toxic Pits         1.000         0         0         0         0         NF           State Landfill         1.000         0         0         0         0         NF           WMUDS/SWAT         1.000         0         0         0         0         NF           UST         1.000         0         0         0         0         NF           CA Bond Exp. Plan         1.000         0         0         0         NF           UST         1.000         0         0         0         NF           CA FID UST         1.000         0         0         0         NF           HIST UST         1.000         0         0         0         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         NF           CONSENT         1.000         0         0         0         NF           ROD         1.000         0         0         0         NF           Po	i	NR							CHMIRS	
Notify 65         1.000         0         0         0         0         NF           Toxic Pits         1.000         0         0         0         0         NF           State Landfill         1.000         0         0         0         0         NF           WMUDS/SWAT         1.000         0         0         0         0         NF           LUST         1.000         0         0         0         NF         NF           LUST         1.000         0         0         4         8         NF           CA Bond Exp. Plan         1.000         0         0         0         NF           UST         1.000         0         0         10         29         NF           HIST UST         1.000         0         0         7         15         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         0         NF           CONSENT         1.000         0         0         0         NF           POD         1.000         0         0         0         NF           INDS         1.000         0         0         0         NF	9	NR			Ó				Cortese	
Toxic Pits         1.000         0         0         0         NF           State Landfill         1.000         0         0         0         0         NF           WMUDS/SWAT         1.000         0         0         0         0         NF           LUST         1.000         0         0         0         0         NF           LUST         1.000         0         0         0         NF           CA Bond Exp. Plan         1.000         0         0         0         NF           UST         1.000         0         0         0         NF           CA FID UST         1.000         0         0         10         29         NF           HIST UST         1.000         0         0         7         15         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         NF         NF           FOD         1.000         0         0         0         NF         NF           Pelisted NPL         1.000         0         0         0         NF         NF           HMIRS         1.000         0         0         0         NF         <	Õ	NR					1.000			
State Landfill         1.000         0         0         0         0         NF           WMUDS/SWAT         1.000         0         0         0         0         0         NF           LUST         1.000         0         0         0         0         NF           CA Bond Exp. Plan         1.000         0         0         0         0         NF           UST         1.000         0         0         0         0         NF           CA FID UST         1.000         0         0         10         29         NF           HIST UST         1.000         0         0         7         15         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         0         NF           FINDS         1.000         0         0         0         NF           FINDS         1.000         0         0         0         NF           HMIRS         1.000         0         0         0         NF           HMIRS         1.000         0         0         0         NF           HMIRS         1.000         0         0         0         NF	0	NR								
WMUDS/SWAT         1.000         0         0         0         0         NF           LUST         1.000         0         0         4         8         NF           CA Bond Exp. Plan         1.000         0         0         0         0         NF           UST         1.000         0         0         0         0         NF           CA FID UST         1.000         0         0         10         29         NF           HIST UST         1.000         0         0         7         15         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         0         NF           CONSENT         1.000         0         0         0         NF           ROD         1.000         0         0         0         NF           Delisted NPL         1.000         0         0         NF           FINDS         1.000         0         0         0         NF           HMIRS         1.000         0         0         0         NF           MINES         1.000         0         0         0         NF           MINES         1.000 </td <td>0</td> <td>NR</td> <td></td> <td></td> <td></td> <td></td> <td>1.000</td> <td></td> <td>State Landfill</td>	0	NR					1.000		State Landfill	
LUST       1.000       0       0       4       8       NF         CA Bond Exp. Plan       1.000       0       0       0       NF         UST       1.000       0       0       8       19       NF         CA FID UST       1.000       0       0       10       29       NF         HIST UST       1.000       0       0       7       15       NF         FEDERAL ASTM SUPPLEMENTAL       1.000       0       0       0       NF         CONSENT       1.000       0       0       0       NF         ROD       1.000       0       0       0       NF         Delisted NPL       1.000       0       0       NF         HMIRS       1.000       2       0       2       15       NF         HMIRS       1.000       0       0       0       NF       NF         MINES       1.000       0       0       0       NF         NPL Liens       1.000       0       0       0       NF         NPADS       1.000       0       0       0       NF	ō	NR							WMUDS/SWAT	
CA Bond Exp. Plan         1.000         0         0         0         NF           UST         1.000         0         0         8         19         NF           CA FID UST         1.000         0         0         10         29         NF           HIST UST         1.000         0         0         7         15         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         0         0         NF           CONSENT         1.000         0         0         0         0         NF           ROD         1.000         0         0         0         NF           Delisted NPL         1.000         0         0         NF           HMIRS         1.000         2         0         2         15         NF           HMIRS         1.000         0         0         0         NF         NF           MINES         1.000         0         0         0         NF           NPL Liens         1.000         0         0         0         NF	12	NR								
UST         1.000         0         0         8         19         NF           CA FID UST         1.000         0         0         10         29         NF           HIST UST         1.000         0         0         7         15         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         0         0         NF           FCONSENT         1.000         0         0         0         0         NF           ROD         1.000         0         0         0         NF           Delisted NPL         1.000         0         0         NF           FINDS         1.000         2         0         2         15         NF           HMIRS         1.000         0         0         0         NF         NF           MINES         1.000         0         0         0         NF           NPL Liens         1.000         0         0         0         NF	0			0	0				CA Bond Exp. Plan	
CA FID UST         1.000         0         0         10         29         NF           HIST UST         1.000         0         0         7         15         NF           FEDERAL ASTM SUPPLEMENTAL         1.000         0         0         0         0         NF           FOD         1.000         0         0         0         0         NF           Delisted NPL         1.000         0         0         0         NF           FINDS         1.000         2         0         2         15         NF           HMIRS         1.000         0         0         0         NF         NF           MINES         1.000         0         0         0         NF         NF           NPL Liens         1.000         0         0         0         NF         NF	27									
HIST UST       1.000       0       0       7       15       NF         FEDERAL ASTM SUPPLEMENTAL       CONSENT       1.000       0       0       0       NR         ROD       1.000       0       0       0       0       NR         Delisted NPL       1.000       0       0       0       NR         FINDS       1.000       2       0       2       15       NR         HMIRS       1.000       0       0       0       NR         MINES       1.000       0       0       0       NR         NPL Liens       1.000       0       0       0       NR	39					-				
CONSENT         1.000         0         0         0         NR           ROD         1.000         0         0         0         0         NR           Delisted NPL         1.000         0         0         0         0         NR           FINDS         1.000         2         0         2         15         NR           HMIRS         1.000         0         0         0         NR           MITS         1.000         0         0         1         2         NR           NPL Liens         1.000         0         0         0         NR         NR           PADS         1.000         0         0         0         NR         NR	22	NR								
ROD         1.000         0         0         0         NR           Delisted NPL         1.000         0         0         0         NR           FINDS         1.000         2         0         2         15         NR           HMIRS         1.000         0         0         0         0         NR           MLTS         1.000         0         0         1         2         NR           MINES         1.000         0         0         0         NR           NPL Liens         1.000         0         0         0         NR           PADS         1.000         0         0         0         NR								NTAL	FEDERAL ASTM SUPPLEME	
ROD         1.000         0         0         0         NR           Delisted NPL         1.000         0         0         0         NR           FINDS         1.000         2         0         2         15         NR           HMIRS         1.000         0         0         0         0         NR           MLTS         1.000         0         0         1         2         NR           MINES         1.000         0         0         0         NR           NPL Liens         1.000         0         0         0         NR           PADS         1.000         0         0         0         NR	0	NB	0	0	0	0	1.000		CONSENT	
Delisted NPL         1.000         0         0         0         NR           FINDS         1.000         2         0         2         15         NR           HMIRS         1.000         0         0         0         0         NR           MLTS         1.000         0         0         1         2         NR           MINES         1.000         0         0         0         NR           NPL Liens         1.000         0         0         0         NR           PADS         1.000         0         0         0         NR	õ									
FINDS         1.000         2         0         2         15         NR           HMIRS         1.000         0         0         0         0         NR           MLTS         1.000         0         0         0         1         2         NR           MINES         1.000         0         0         0         0         NR           NPL Liens         1.000         0         0         0         NR           PADS         1.000         0         0         0         NR	õ									
HMIRS1.000000NRMLTS1.0000012NRMINES1.0000000NRNPL Liens1.0000000NRPADS1.000000NR	19								FINDS	
MLTS         1.000         0         0         1         2         NR           MINES         1.000         0         0         0         0         NR           NPL Liens         1.000         0         0         0         0         NR           PADS         1.000         0         0         0         NR	0								HMIRS	
MINES         1.000         0         0         0         NR           NPL Liens         1.000         0         0         0         NR           PADS         1.000         0         0         0         NR	3			1		0	1.000		MLTS	
NPL Liens         1.000         0         0         0         NR           PADS         1.000         0         0         0         NR	õ								MINES	
PADS 1.000 0 0 0 0 NB	ő		-	-		-				
	ŏ	NR	Ō	0	0	0	1.000		PADS	
RAATS 1.000 0 0 0 0 NR	õ	NR				0			RAATS	
TRIS 1.000 0 0 0 0 NR	õ	NR			0	0	1.000			
TSCA 1.000 0 0 0 0 NR	õ	NR	0				1.000			
	2	NR	2	0			1.000		FTTS	
STATE OR LOCAL ASTM SUPPLEMENTAL								PLEMENTAL	STATE OR LOCAL ASTM SUP	
AST 1.000 0 0 0 0 NR	0	NR	0	0	0	0	1.000		AST	
	1	NR	1	õ	Ő	õ				

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
CAWDS		1.000	0	0	0	2	NR	2
CA SLIC		1.000	0	0	0	0	NR	0
HAZNET		1.000	1	5	19	85	NR	110
Los Angeles Co. HMS		1.000	0	0	0	1	NR	1
LA Co. Site Mitigation		1.000	0	0	0	0	NR	0
AOCONCERN		1.000	0	0	0	0	NR	0
EDR PROPRIETARY HISTO	RICAL DATAB	ASES						
Coal Gas		1.000	0	0	0	0	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

\* Sites may be listed in more than one database

Appendix 10 Supplementary Utilities Information

## Department of Water and Power



## the City of Los Angeles

BY .....

JAMES K. HAHN Mayor Commission KENNETH T. LOMBARD, President DOMINICK W. RUBALCAVA, Vice President ANNIE E. CHO MARY E. LESLIE SID C. STOLPER JOHN C. BURMAHLN, Secretary DAVID H. WIGGS, General Manager FRANK SALAS, Chief Operating Officer

July 31, 2002

Ms. Terri Vitar EIP Associates 12301 Wilshire Boulevard, Suite 430 Los Angeles, California 90025

Dear Ms. Vitar:

Subject: Water Availability Assessment Transmittal

Please find enclosed the Water Availability Assessment and Los Angeles Department of Water and Power Board of Commissioners Resolution for the University of California, Los Angeles 2002 Long Range Development Plan.

If you have any questions regarding the enclosures, please do not hesitate to give me a call at (213) 367-0800.

Sincerely,

Il 3. Hantest

Alvin Z. Bautista Water Resources Planning and Policy Group

Enclosure

Water and Power Conservation ... a way of life

111 North Hope Street, Los Angeles, California □Mailing address: Box 51111, Los Angeles 90051-0100 Telephone: (213) 367-4211 Cable address: DEWAPOLA FAX: (213) 367-3287

#### LOS ANGELES DEPARTMENT OF WATER AND POWER

### WATER AVAILABILITY ASSESSMENT FOR THE UNIVERSITY OF CALIFORNIA, LOS ANGELES 2002 LONG RANGE DEVELOPMENT PLAN

The Los Angeles Department of Water and Power (LADWP) has prepared this water availability assessment for the proposed University of California, Los Angeles 2002 Long Range Development Plan (Project). The University of California, Los Angeles is serving as the Lead Agency for the Project, which entails the redevelopment of up to 1.87 million square feet of mixed-use facilities, including academic and administrative offices, laboratories, and facilities for student housing, research, recreation, and child care. The water availability assessment was made pursuant to California Water Code Sections 10910-10915.

LADWP anticipates that it can provide sufficient domestic water supply to accommodate the development and growth associated with the Project. The projected water demand of the Project is within the 20-year water demand growth projected in the City of Los Angeles' (City) Year 2000 Urban Water Management Plan (Water Plan) update. The water availability information used to develop this assessment is based on data provided in the City's Water Plan, which provides a projection of the City's 20-year water supply and demand outlook. The Water Plan, which was adopted by the LADWP Board of Commissioners, is updated every five years with the next update due by December 31, 2005.

LADWP anticipates that its projected water supplies available during normal, single-dry, and multiple-dry water years as included in the 20-year projection contained in its Water Plan will meet the projected water demand associated with the Project, in addition to the existing and other planned future uses of LADWP's system.

It is anticipated that LADWP will be capable of meeting the demand associated with full implementation of the Project.

RESOLUTION NO.

WHEREAS, in May 2002 the University of California, Los Angeles, acting as Lead Agency for the University of California, Los Angeles 2002 Long Range Development Plan (Project), requested the Los Angeles Department of Water and Power (LADWP) provide a water supply availability assessment for the proposed Project pursuant to California Water Code Sections 10910-10915; and

WHEREAS, LADWP's water supply system now serves the immediate Project area, and would serve the area of the proposed Project redevelopment; and

WHEREAS, the projected water demand associated with the Project is within the range of water demand projections anticipated in the City of Los Angeles' Year 2000 Urban Water Management Plan update; and

WHEREAS, LADWP anticipates that its projected water supplies available during normal, single-dry, and multiple-dry water years as included in the 20-year projection contained in its Urban Water Management Plan can accommodate the projected water demand associated with the Project, in addition to the existing and other planned future uses of LADWP's system; and

WHEREAS, LADWP has prepared a water availability assessment for the Project as required by California Water Code Sections 10910-10915, which finds that LADWP can provide sufficient domestic water supplies for the development and growth as defined by the Project; and

NOW, THEREFORE, BE IT RESOLVED, that the LADWP Board of Water and Power Commissioners hereby approves the water availability assessment prepared for the Project, now on file with the Secretary of the Board, and directs that the assessment and a certified copy of this resolution be transmitted to the University of California. Los Angeles, the Project Lead Agency.

I HEREBY CERTIFY that the foregoing is a full, true, and correct copy of a resolution adopted by the Board of Water and Power Commissioners of the City of Los Angeles at its meeting held JUL 0 2 2002

APPROVED AS TO FORM AND LEGALITY ROCKARD J. DELGADILLO, CITY ATTORNEY

EDWARD A. SCHLOTMAN

Assistant City Attomey

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#### SUPPLEMENTARY WATER SUPPLY ANALYSIS

The 2002 LRDP proposes to extend the planning horizon for development under the 1990 LRDP from 2005 to 2010. Under the 1990 LRDP, 3.71 million gross square feet of development was to occur between 1990 and 2005. 1.7 million gross square feet remains to be built. The 2002 LRDP proposes to extend the horizon date for the remaining 1990 LRDP development allocation from 2005 to 2010. The 2002 LRDP also proposes the addition of 4,000 full time equivalent students to the campus.

This analysis will summarize the Los Angeles Department of Water and Power ("DWP") water supplies which will meet the projected water demands of the proposed growth, as well as other issues related to the ability of DWP to meet the future demands of the 2002 LRDP and of the City of Los Angeles as a whole. Data used for this analysis was obtained from the 2000 DWP Urban Water Management Plan ("UWMP") and other sources, as indicated.

#### I. Supply and Demand Analysis

Establishing the baseline water demand for this EIR involves taking into account current usage and projected usage from projects that are either under construction, approved, or certified (i.e., project that have obtained environmental clearance with regard to CEQA). Currently, the UCLA campus uses 2733 acre feet (AF) of water per year. This figure was arrived at by calculating the ratio of existing gross square footage on campus to quantity of water used. The gross square footage of development either under construction, approved, or considered in a certified EIR was then used in conjunction with the above ratio to find the projected water demand of that development, which is projected to be 296 AF per year. Thus, the baseline of water demand for this EIR is 3029 AF (2733 AF + 296 AF) per year. Water demand resulting from implementation of the 2002 LRDP was calculated in the same way, yielding 336 AF per year in new demand. Overall, total campus water demand after full implementation of the 2002 LRDP would be 3365 AF per year. See Table 1.

	Total Development (gsf)	Total Water Consumed (AF/year)
2001-02 Existing Baseline (actual)	13,881,695	2734
Under Construction, Approved, and/or considered in a Certified EIR (estimated)	1,505,435	296
Subtotal: Existing Conditions	15,387,130	3030
2002 LRDP (estimated)	1,706,465	336
TOTAL WATER DEMAND	17, 093,595	3365

Table 1: EXISTING AND PROJECTED (2002 LRDP) WATER DEMAND

The demands of the 2002 LRDP, outlined above, were taken into account in the demand projections used in the 2000 UWMP. Although the UWMP did not list individual planned future projects included within its water demand projections, population growth projections contained in the 1998 Regional Transportation Plan Adopted Forecast ("1998 RTP"), created by the Southern California Association of Governments ("SCAG"), were used as the basis for the UWMP's water demand projections. Thus, if the growth proposed by the 2002 LRDP would occur at a rate equal to, or lower than that which was projected for the Westwood Community Plan Area and the City as a whole, the demands of the 2002 LRDP have been accounted for in the demand projections of the 2000 UWMP.

Review of planning studies confirm that growth anticipated under the 2002 LRDP will occur at a rate lower than that projected for both the Westwood Community Plan Area and for the entire City, and also lower than that projected in the demand analysis of the 2000 UWMP. According to the 1996 General Plan Framework and the General Plan Framework Environmental Impact Report ("EIR"), the City of Los Angeles had a population of 3,485,399 in 1990, and was projected to have a population of 4,306,564 by 2010. This represents a total increase of 23.6%, or 1.2% per year. The General Plan Framework also anticipated that growth in the Westwood Community Plan Area, which includes the UCLA campus, between 1990 and 2010 would total 20.1%, or 1.0% per year. In addition, the 2000 UWMP also anticipated a similar growth rate in the City population. In the 2000 UWMP, the City population was projected to grow an average of 1.3% a year. See 2000 DWP UWMP, at page 20.

Through implementation of the 2002 LRDP, UCLA campus population growth is expected to occur at a rate lower than the general growth rates for both Westwood and the entire City, which were used to determine water demands in the 2000 UWMP. Growth between 1990 and 2010 under the original LRDP was projected to be 12%, or 0.6 % per year. As the LRDP Update does not propose any new development beyond that proposed in the 1990 LRDP, the 2002 LRDP will still involve growth at a rate lower than that of the City and of Westwood. Consequently, the 2000 UWMP water demand projections accommodate the demands of the 2002 LRDP, and data from that document demonstrates the sufficiency of future water supplies to meet 2002 LRDP water demands.

As mentioned before, the demand projections used in the 2000 UWMP were generated by using growth projections. The demand projections were also obtained by taking into account the effect of increased conservation within the City. The DWP plans on implementing, or continuing implementation of, several conservation measures, such as requiring the use of ultra-low flush toilets, high efficiency washing machines, low-flow showerheads, and establishing a large landscape efficiency program. The demand savings from conservation are projected to increase by 5% every year, with 87,350 AF saved in 2020.

The supply data used in the following supply-demand analysis consists of the composite projections of water production from existing or planned water sources. The Los Angeles Aqueduct ("LAA") conveys water from the Owens Valley and Mono Lake, east of the Sierra Nevada, to the City of Los Angeles. The City of Los Angeles owns the rights to the water that is collected in the Owens Valley, and also owns the LAA, the means by which the water is transported. According to the DWP, the LAA has historically provided a large portion of the water needed to satisfy the City's water demands. Environmental concerns, however, forced the City to reduce its production from the LAA in 1989. Between 1989 and 2000, the LAA produced an average of 295,500 acre feet per year, with a low of 106,700 acre feet in 1990, and a high of 466,800 acre feet in 1998. 2000 DWP UWMP, at page 33.

In addition, local wells produce water from three groundwater basins to which the City has rights: the San Fernando Basin, the Sylmar Basin, and the Central Basin. These sources are considered to be reliable and have produced on average 92,400 AF per year, in the period from 1990 to 2000. With the implementation of programs to store wet-year surplus water in these underground basins, they are projected to produce more water than in the past. The Metropolitan Water District ("MWD") is also a major supplier of City water supplies from the Colorado River and the State Water Project. The MWD's *Report on Metropolitan's Water Supplies* (Feb. 11, 2002) shows that MWD projects it will be able to supply all of its constituent agencies' demands and also maintain a margin of error for extra security. MWD indicates in the above Report that it can accommodate the dry year needs of its users and still maintain a surplus, or margin of safety, of supply.

DWP also plans on increasing the usage of recycled water through the expansion of treatment facilities and transport infrastructure. Recycled water will be marketed for commercial, industrial, and irrigation uses.

According to the 2000 UWMP, there will be sufficient water supplies to service all projected growth between 2000 and 2010, including the 2002 LRDP. The supplies will be adequate in both normal and dry years. See Tables 2 and 3.

Supply Source	2005	2010	2015	2020
Los Angeles Aqueduct	321,000	321,000	321,000	321,000
Local Wells <sup>2</sup>	123,000	133,000	143,000	150,000
Metropolitan Water District	227,350	245,600	269,350	298,650
Recycled Water <sup>3</sup>	7,650	18,400	23,650	29,350
Total Supply	679,000	718,000	757,000	799,000
Demand Source	2005	2010	2015	2020
Single Family	234,000	240,000	249,000	260,000
Multi-Family	216,000	240,000	260,000	283,000
Commercial	121,000	124,000	128,000	131,000
Industrial	26,000	27,000	28,000	30,000
Governmental	42,000	44,000	45,000	47,000
Unaccounted Water	40,000	43,000	46,000	49,000
Total Demands	679,000	718,000	756,000	800,000

<sup>1</sup> Table and data obtained from 2000 DWP UWMP, pages 22 and 43. <sup>2</sup> Includes increase in production due to groundwater recharge. <sup>3</sup> Recycled water will be used for irrigation and industrial use.

Supply Source	2005	2010	2015	2020
Los Angeles Aqueduct	160,000	160,000	160,000	160,000
Local Wells <sup>2</sup>	150,000	160,000	170,000	180,000
Metropolitan Water District <sup>3</sup>	402,350	422,600	448,350	477,650
Recycled Water <sup>4</sup>	7,650	18,400	23,650	29,350
Total Supply	720,000	761,000	802,000	847,000
Total Demands <sup>5</sup>	719,740	761,080	801,360	848,000

<sup>1</sup> Table and data obtained from 2000 DWP UWMP, pages 22 and 43.

<sup>2</sup> Includes increase in production due to groundwater recharge, and also includes increase due to utilization in dry years of San Fernando Basin storage credits.

<sup>3</sup> MWD deliveries are expected to be increased in single-dry years as compared to normal years. MWD documentation shows that it is able to accommodate all of the increased demands of its constituent agencies during single-dry years and nevertheless maintain a 7% to 24% margin of safety in supplies above projected demand levels. See Report on Metropolitan's Water Supplies (Feb. 11, 2002): Findings, pg. 14; Summary Supply and Demand Tables, pg. 16.

<sup>4</sup> Recycled water will be used for irrigation and industrial use.

<sup>5</sup> Dry year demand shown reflects 6% increase from normal year demand.

The DWP arrived at projections for dry year demands by assuming that water needs will increase by six percent over normal year demands. DWP supported this assumption by noting that actual water usage could be expected to vary from normal year levels plus or minus six percent, based upon varying weather conditions. Increasing normal year demands by six percent therefore represents the water usage in a "dry" year. Discrepancies between "Total Supply" and "Total Demands" listed above are not significant, in that the largest of them represents only one tenth of one percent of the total demands for that year (i.e., the 2020 projection).

All sources of water that DWP plans on utilizing to meet water demands until 2020 have been utilized in prior years. The only source which has not been utilized recently is the West Coast Groundwater Basin. The DWP has not produced any water from the West Coast Basin previously because of water contamination. Because of problems with the water quality of this basin, the DWP did not project any future production from the West Coast Basin in the 2000 UWMP.

#### II. Groundwater Sources to be Used to Meet Future Project Demands

The 2000 UWMP stated that DWP had 64 active wells which delivered approximately 15 percent of the total water supply needed by the City, with deliveries from local groundwater wells having averaged 92,400 acre feet per year for the previous ten years. The City possessed rights to pump groundwater from four local basins: the San Fernando, Sylmar, Central, and

West Coast Basins. On the average, the San Fernando Basin ("SFB") was responsible for 80% of the groundwater extracted by the DWP, while 15% of DWP groundwater was from the Central Basin and 5% from the Sylmar Basin. No groundwater was pumped from the West Coast Basin due to poor water quality (although DWP does receive fees from other parties that do extract water from the West Coast Basin). Table 4 shows the amount of water DWP is entitled to receive each year from each basin.

TABLE 4: DWP GROUNDWATER ENTITLEMENTS				
Groundwater Basin	Amount DWP may Pump per Year			
San Fernando Basin	90,000 acre feet			
Sylmar Basin	3,100 acre feet			
Central Basin	15,000 acre feet			
West Coast Basin	1,500 acre feet			
TOTAL GROUNDWATER ENTITLEMENTS	109,600 acre feet			

In addition to the DWP annual 90,000 acre feet allotment, the San Fernando Basin also holds a water reserve totaling 255,000 acre feet as of October 1999. DWP has a right to pump water from this reserve. That right is characterized in the UWMP as a form of "water supply insurance" to be used in case of temporary interruption of water imports or in case of a drought that reduces production from the LAA.

The 2000 DWP UWMP also stated that the DWP plans to maximize production from groundwater basins in the future in order to counter reductions in imported water supplies. In connection with this, the DWP anticipates making significant investments in water quality measures for groundwater.

A major component of DWP planning for groundwater described in the 2000 UWMP is the implementation of conjunctive use. Conjunctive use will involve the restriction of groundwater usage during wet years so that water may be stored in the underground basins for use in future dry years. When dry years occur, the City will have accumulated significant storage credits under the adjudication judgment for the SFB (see below). The City will then utilize its maximum yearly allotment and also draw upon its storage credits in order to compensate for lower LAA and MWD deliveries during dry years.

Necessary to the programs of groundwater recharge and conjunctive use are DWP plans to address groundwater contamination problems in the SFB. Trace levels of trichloroethylene and perchloroethylene were detected in the SFB in 1979, and more recently SFB groundwater has been found to contain hexavalent chromium. In the UWMP, the DWP outlines plans to pursue monitoring programs and to develop and construct water treatment facilities in order to ensure the water quality of SFB water. Other programs, such as requiring mandatory sewer system

connections for all industrial and commercial properties in the San Fernando Valley, are also being prepared.

### A. San Fernando Basin

### 1. Pueblo Right.

The San Fernando Basin was adjudicated by the Superior Court decision *City of Los Angeles v. City of San Fernando et al.* Under the decree in that case, the City of Los Angeles was ruled to have a prior and paramount "pueblo right" (a right to native waters granted by the King of Spain to pueblos, for the use of their inhabitants) to the native waters of the upper Los Angeles River and to the native ground waters of the San Fernando Basin (i.e., the waters of the San Fernando Basin which are attributable to precipitation). As a prior and paramount right, no entity other than the City has an interest in native SFB water. Under the judgment, each year the City may consequently extract from its pueblo right the native safe yield of the SFB (that portion of the safe yield attributable to native flows).

### 2. Rights to import return water.

The SFB also consists of water that does not originate from natural precipitation, but rather from "import return water," which is water that has been brought into the area and has percolated into the basin. An example of this would be LAA water or MWD water. The Los Angeles pueblo right does not extend to import return water, and thus the City must share this portion of the waters of the SFB with the Cities of Glendale, Burbank, and San Fernando. Under the court judgment, each city is entitled to extract the portion of the safe yield of the basin attributable to its import return. For the City of Los Angeles, the amount of import return for a year is equal to 20.8% of the amount of import water delivered to "valley fill lands of the San Fernando Basin" (i.e., areas where water will percolate into the SFB).

### 3. Right to Water from Storage Credit.

Additionally, each city has a right to store water in the SFB by either direct spreading (whereby the city receives a storage credit for the amount of water it directly inputs into the basin) or by in lieu practices (whereby the city refrains from extracting the maximum amount of water it is entitled to and receives a storage credit in return for that amount). This right allows the City to extract an equivalent amount in the future (i.e., 100% of stored water is extractable in the future), and the right is allowed to carryover and accumulate from year to year. According to the DWP, as of October 1999 the City of Los Angeles had a stored water credit of 255,000 acre feet in the SFB. The DWP plans to utilize this stored water during long-term shortages or other emergencies in order to supplement the normal SFB groundwater production by the City.

### 4. Right to Underlying Pueblo Water.

The City of Los Angeles also has the right to draw up its right to underlying pueblo waters, with the obligation of replacing the water as soon as practical. The underlying pueblo waters consist of the native water of the SFB which ordinarily is left in the basin and not part of the native safe

yield which Los Angeles pumps every year. In essence, it is in the base water table of the basin. This right would only be utilized in times of extreme short-term shortages.

#### B. Sylmar Basin

Rights to the Sylmar Basin were also adjudicated in the case of *City of Los Angeles v. City of San Fernando, et al.* The Cities of San Fernando and Los Angeles possess appropriative rights, of equal priority, to the native waters of the Sylmar Basin not used for the reasonable beneficial needs of the overlying users. The court quantified these appropriative rights as consisting of 3,580 acre feet per year for the City of San Fernando, and 1,560 acre feet per year for the City of Los Angeles.

Both the City of San Fernando and City of Los Angeles have import return water rights in the Sylmar Basin, equal to 35.7% of amount of water imported into the basin the preceding year. There is a corresponding right to store water similar to that possessed with reference to the SFB (i.e., right to storage credit for in lieu practices and unused import return water rights). Unlike the SFB, however, water storage credits may only be carried over for five years.

The City is entitled to extract 3,100 acre feet of water per year from the Sylmar Basin. This number apparently represents the City of Los Angeles' appropriative right, plus its right to import return water.

### C. Central Basin

The Central Basin was adjudicated in the case of *Central and West Basin Water Replenishment District v. Adams, et al.* Under the judgment in this case, which was originally handed down in 1962 with the most recent revision made in 1991, the California Department of Water Resources serves as the Watermaster for the Central Basin.

With regard to the City of Los Angeles, the court ruled that the City will be allowed to pump 15,000 acre feet of water per year (its "Allowed Pumping Allocation"). There are several situations through which this amount may fluctuate. First, the judgment allows for a one year carryover of groundwater that is not pumped. In the case of Los Angeles the amount of this carryover may not exceed 3,000 acre feet. In a situation where the full amount was carried over, the City would be able to pump 18,000 acre feet of water the next year.

Second, in times where a Water Emergency has been declared by the Central and West Basin Water Replenishment District, an additional amount of water may be carried over above that allowed by the one year carryover. This additional drought carryover is not to exceed, in the case of Los Angeles, 5,250 acre feet of water. Thus, in times of a Water Emergency, the City may carryover a combined total of 8,250 acre feet, and thereby pump a total of 23,250 acre feet of water the next year.

D. <u>Analysis of Sufficiency of Groundwater from Basins to Meet Project Water</u> Demand The San Fernando, Sylmar, and Central Basins were all projected to be utilized in order to meet the future needs of the City of Los Angeles, including the UCLA 2002 LRDP, as previously discussed. Reference to the supply and demand analysis (see Section I., *supra*) shows that as a whole the water supplies of the City of Los Angeles will be sufficient to meet the water demands of the City of Los Angeles over the next twenty years. This would include the projected water demand for the UCLA 2002 LRDP through the year 2010. The water supply levels assigned to the groundwater wells in the "normal year" analysis represent the maximum yield that may be obtained annually under current rights (exclusive of the right to DWP San Fernando Basin storage credits), plus 100% of the amount of water recharged into the SFB. See Table 5.

TABLE 5: BREAKDOWN	TER EXTRAC	TION,			
	(Normal Year)           2005         2010		2015	2020	
Annual Total Groundwater Allotment	108,100	108,100	108,100	108,100	
Amount of Water Recharged to Basins	15,000	25,000	35,000	45,000	
Total Groundwater Production Projected	123,000	133,000	143,000	150,000	

In addition, the Annual Total Groundwater Allotment for DWP, which is approximately 109,600 acre feet per year (the total for all basins), does not represent a level of production that will result in a reduction in the groundwater levels of the relevant basins. Rather, this level of production represents the safe yield of the basins, and adherence to it will preserve the integrity of these basins. Consequently, the levels of groundwater production proposed by the DWP are self-sustaining and, in combination with other sources, will be sufficient to meet the needs of the City, including the UCLA 2002 LRDP.

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<ol> <li>Type of Bui</li> <li>Project Desc</li> <li>Expansion</li> <li>Proposed E: Total Net A</li> <li>Sewer Avail</li> </ol>	tription (i.e. No. ton of Public Po stimated Sewer dditional Sewer ability: P Ca 1 1 Ca	of Dwelling U hicy Office Bui Flow (New Cor Flow(Remode pacity Availat apacity Not Avai	nits, Gross Sq. Ft. an Iding by 30,000 gsf. Instruction): I/Replacement): ple ailable See Remarks	ad Use.	etc.) (GPD) or (GPD) or	
<ol> <li>Type of Bui</li> <li>Project Desc</li> <li><u>Expansi</u></li> <li>Proposed E: Total Net A</li> <li>Sewer Avail</li> </ol>	tription (i.e. No. ton of Public Po stimated Sewer dditional Sewer ability: P Ca 1 1 Ca	of Dwelling U hicy Office Bui Flow (New Cor Flow(Remode pacity Availat apacity Not Avai	nits, Gross Sq. Ft. an Iding by 30,000 gsf. Instruction): I/Replacement): ple ailable See Remarks	ad Use.	etc.) (GPD) or (GPD) or	
<ol> <li>Type of Bui</li> <li>Project Desc</li> <li>Expansi</li> <li>Proposed E: Total Net A</li> <li>Sewer Avail</li> <li>Remarks:</li> </ol>	cription (i.e. No. ion of Public Po stimated Sewer dditional Sewer ability: P Ca []] Ca	of Dwelling U hicy Office Bui Flow (New Cor Flow(Remode pacity Availab pacity Not Availab	nits, Gross Sq. Ft. an Iding by 30,000 gsf. Instruction): //Replacement): ple ailable See Remarks	6,000	etc.) (GPD) or (GPD) or	
<ol> <li>Type of Bui</li> <li>Project Desc</li> <li>Expansi</li> <li>Proposed E: Total Net A</li> <li>Sewer Avail</li> <li>Remarks:</li> </ol>	cription (i.e. No.	both Dwelling U hicy Office Buil Flow (New Con Flow (Remode pacity Availab apacity Not Availab Apacity Not Availab Kaut	nits, Gross Sq. Ft. an Iding by 30,000 gsf. Instruction): VReplacement): ple ailable See Remarks Sewer v	ad Use 6,000	etc.) (GPD) or (GPD) or	
<ol> <li>Type of Bui</li> <li>Project Desc</li> <li><u>Expansi</u></li> <li>Proposed Estate</li> </ol>	cription (i.e. No.	both Dwelling U hicy Office Buil Flow (New Con Flow (Remode apacity Availat apacity Not Availat apacity Not Availat both Services Divisio	nits, Gross Sq. Ft. an Iding by 30,000 gsf. Instruction): VReplacement): ple ailable See Remarks Sewer v	ad Use 6,000	etc.)(GPD) or(GPD) or	_(CFS
<ol> <li>Type of Bui</li> <li>Project Desc</li> <li>Expansi</li> <li>Proposed E: Total Net A</li> <li>Sewer Avail</li> <li>Remarks:</li> </ol>	cription (i.e. No.	bervices Divisio	nits, Gross Sq. Ft. an Iding by 30,000 gsf. Instruction): VReplacement): ple ailable See Remarks Sewer v	ad Use 6,000	etc.) (GPD) or (GPD) or	_(CFS

2

# SEWER AVAILABILITY

	Owner/ Lead Ag	ency: Univer		
	_	Tova L	clah	
	Т	No. (310) 206-5482		-
	F	x No. (310) 206-1510		-
Location/Job A	ddress:	405 S. Hilgard	Ave.	
		Los Angeles, C	A. 90095	
. Building Perm	it Application No	.:		
. Proposed Sewe	er Connection Lo	cation: Intersection o	f Gayley Ave.and	Charles Young Dr.
- <u></u>				
5. SIMMS MH N	umber F	rom: Don to able 4	90 16 -89 To:	Upstream of 49016090
				and the second second
6 Server Man No	400	Wwe	fan No	
6. Sewer Map No				
7. Size of Main S	ewer Line in the	Street:	21" (18	" Sewerting)
8. Type of Buildi	ing Use: Office, 1	ab and Machine Shop	Library, Gymns	sium and Hospital
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	ab and Machine Shop		
. Project Descri	ption (i.e. No. of	Dwelling Units, Gross	Sq. Ft. and Use	etc.)
9. Project Descri Expansion	ption (i.e. No. of n of 121,600 rsf (	Dwelling Units, Gross Office, Addition of 140	Sq. Ft. and Use	etc.) ddition of 491,000 gsf of l
9. Project Descri Expansion Space, Ad	ption (i.e. No. of n of 121,600 asf idition of 5,000 g	Dwelling Units, Gross Office, Addition of 140 I of Machine Shop, A	Sq. Ft. and Use 513 gsf Office, Addition of 70,000 c	etc.) <u>ddition of 491,000 gsf of 1</u> of Library, Addition of 16
9. Project Descri Expansion Space, Ad	ption (i.e. No. of n of 121,600 asf idition of 5,000 g	Dwelling Units, Gross Office, Addition of 140	Sq. Ft. and Use 513 gsf Office, Addition of 70,000 c	etc.) <u>ddition of 491,000 gsf of 1</u> of Library, Addition of 16
9. Project Descri Expansion Space, Ad <u>2sf of Gyn</u> 10. Proposed Esti	iption (i.e. No. of n of 121,600 msf ( idition of 5,000 m nnasium, Addition mated Sewer Flo	Dwelling Units, Gross Office, Addition of 140 I of Machine Shop, A n of 1,045,000 gsf of H w (New Construction)	Sq. Ft. and Use 513 gsf Office, A ddition of 70,000 o lospital : 447,857	etc.) ddition of 491,000 gsf of 1 of Library, Addition of 16 (GPD) or(
9. Project Descri Expansion Space, Ad <u>2sf of Gyn</u> 10. Proposed Esti	iption (i.e. No. of n of 121,600 msf ( idition of 5,000 m nnasium, Addition mated Sewer Flo	Dwelling Units, Gross Office, Addition of 140 I of Machine Shop, A n of 1,045,000 gsf of H w (New Construction)	Sq. Ft. and Use 513 gsf Office, A ddition of 70,000 o lospital : 447,857	etc.) ddition of 491,000 gsf of 1 of Library, Addition of 16
9. Project Descri Expansion Space, Ad <u>2sf of Gyn</u> 10. Proposed Esti	iption (i.e. No. of n of 121,600 msf ( idition of 5,000 m massium, Addition mated Sewer Flo hitional Sewer Flo bility: A Capa	Dwelling Units, Gross Office, Addition of 140 I of Machine Shop, A n of 1,045,000 gsf of H w (New Construction) ow(Remodel/Replacen	Sq. Ft. and Use 513 gsf Office, A ddition of 70,000 of Iospital : 447,857 ment): 24,320	etc.) ddition of 491,000 gsf of 1 of Library, Addition of 16 (GPD) or(
<ol> <li>Project Description</li> <li><u>Expansion</u></li> <li><u>Space</u>, Ad</li> <li><u>gsf of Gym</u></li> <li>Proposed Estination</li> <li>Total Net Add</li> </ol>	iption (i.e. No. of n of 121,600 msf ( idition of 5,000 m massium, Addition mated Sewer Flo hitional Sewer Flo bility: A Capa	Dwelling Units, Gross Office, Addition of 140 I of Machine Shop, A n of 1,045,000 gsf of H w (New Construction) ow(Remodel/Replacen	Sq. Ft. and Use 513 gsf Office, A ddition of 70,000 of Iospital : 447,857 ment): 24,320	etc.) ddition of 491,000 gsf of 1 of Library, Addition of 16 (GPD) or(
<ol> <li>Project Description</li> <li><u>Expansion</u></li> <li><u>Space</u>, Ad</li> <li><u>gsf of Gym</u></li> <li>Proposed Estination</li> <li>Total Net Add</li> </ol>	iption (i.e. No. of n of 121,600 msf ( idition of 5,000 m massium, Addition mated Sewer Flo hitional Sewer Flo bility: M Capa Capa	Dwelling Units, Gross Office, Addition of 140 I of Machine Shop, A n of 1,045,000 gsf of H w (New Construction) w (Remodel/Replacen sty Available sity Not Available See	Sq. Ft. and Use 513 gsf Office, A ddition of 70,000 of Iospital : 447,857 ment): 24,320	etc.) ddition of 491,000 gsf of 1 of Library, Addition of 16 (GPD) or(
<ol> <li>Project Descri <u>Expansion</u> <u>Space, Ad</u> <u>esf of Gyn</u></li> <li>Proposed Esti Total Net Add</li> <li>Sewer Availat</li> <li>Remarks:</li> </ol>	iption (i.e. No. of n of 121,600 msf ( idition of 5,000 m massium, Addition mated Sewer Flo hitional Sewer Flo bility: M Capa Capa	Dwelling Units, Gross Office, Addition of 140 I of Machine Shop, A n of 1,045,000 gsf of H w (New Construction) w (Remodel/Replacen sty Available sity Not Available See	Sq. Ft. and Use 513 gsf Office, Addition of 70,000 of Iospital. : 447,857 ment): 24,320 Remarks	etc.) <u>ddition of 491,000 gsf of 1</u> <u>of Library, Addition of 16</u>      
<ol> <li>Project Descri <u>Expansion</u> <u>Space, Ad</u> <u>gsf of Gyn</u></li> <li>Proposed Esti Total Net Add</li> <li>Sewer Availat</li> <li>Remarks:</li> <li>Requested By:</li> </ol>	iption (i.e. No. of n of 121,600 msf ( idition of 5,000 m massium, Addition mated Sewer Flo itional Sewer Flo bility: MCapa 15%. Increa Mike	Dwelling Units, Gross Office, Addition of 140 if of Machine Shop, A n of 1,045,000 gsf of H w (New Construction) w (Remodel/Replacent thy Available city Not Available See L Kaufor	Sq. Ft. and Use 513 gsf Office, Addition of 70,000 of lospital. : 447,857 hent): 24,320 Remarks Sewer Availabi	etc.) <u>ddition of 491,000 gsf of 1</u> <u>of Library, Addition of 16</u>      
<ol> <li>Project Descri <u>Expansion</u> <u>Space, Ad</u> <u>2sf of Gyn</u></li> <li>Proposed Esti Total Net Add</li> <li>Sewer Availat</li> <li>Remarks:</li> <li>Requested By:</li> </ol>	iption (i.e. No. of n of 121,600 esf ( Idition of 5,000 gr massium, Addition mated Sewer Flo Ditional Sewer Flo Ditional Sewer Flo Ditity: Marke 15% Increa Mike Sevelopment Ser	Dwelling Units, Gross Office, Addition of 140 f of Machine Shop, A n of 1,045,000 gsf of H w (New Construction) w (Remodel/Replacen thy Available tity Not Available See Kaufor ices Division	Sq. Ft. and Use 513 gsf Office, Addition of 70,000 of Iospital. : 447,857 ment): 24,320 Remarks	etc.) <u>ddition of 491,000 gsf of 1</u> <u>of Library, Addition of 16</u>      
9. Project Descri <u>Expansion</u> <u>Space, Ad</u> <u>2sf of Gyn</u> 10. Proposed Esti Total Net Add 11. Sewer Availat 12. Remarks: Requested By:	iption (i.e. No. of n of 121,600 msf ( idition of 5,000 m massium, Addition mated Sewer Flo itional Sewer Flo bility: MCapa 15%. Increa Mike	Dwelling Units, Gross Office, Addition of 140 f of Machine Shop, A n of 1,045,000 gsf of H w (New Construction) w (Remodel/Replacen thy Available tity Not Available See Kaufor ices Division	Sq. Ft. and Use 513 gsf Office, Addition of 70,000 of lospital. : 447,857 hent): 24,320 Remarks Sewer Availabi	etc.) <u>ddition of 491,000 gsf of 1</u> <u>of Library, Addition of 16</u>      
9. Project Descri <u>Expansion</u> <u>Space, Ad</u> <u>2sf of Gyn</u> 10. Proposed Esti Total Net Add 11. Sewer Availat 12. Remarks: Requested By: B ()	iption (i.e. No. of n of 121,600 gsf ( idition of 5,000 gr massium, Addition internal Sewer Flo bility: M Capa 15 /. Increa Mike Sevelopment Server Bureau of Engine	Dwelling Units, Gross Office, Addition of 140 f of Machine Shop, A n of 1,045,000 gsf of H w (New Construction) w (Remodel/Replacen eity Available eity Not Available See Kaufor- rices Division ering	Sq. Ft. and Use 513 gsf Office, Addition of 70,000 of Iospital : 447,857 ment): 24,320 Remarks Sewer Availabit Checked By: Name: Breat	etc.) <u>ddition of 491,000 gsf of 1</u> <u>of Library, Addition of 16</u>      

						at Los Angelo	
				Tova Lelah			
			Tel No. (310)	206-5482		-	
			Faz No. (310)	206-1510		-	
	Location/Jo	b Address:	405 S.	Hilgard Ave.			
			Los A	ngeles, CA 90095			
	<b>Building</b> Pe	rmit Applicatio	on No.:				
	Proposed Se	ewer Connectio	n Location:	Within Gayley A	ve.	-	
	SIMMS MI	I Number	From: Douto	trem 490 16 087	To:	Upstream of	( 49016058
			From:		To:		
			From:		To:		
	Sawar Man	No 490		Wyc Map No.			
	Type of Bui	ilding Use:	Restaurant, G	8" f	rage		,_058
•	Type of Bui Project Des	ilding Use:	Restaurant, G	0	rage	etc.)	
•	Type of Bui Project Des	ilding Use: cription (i.e. No 33,325 gsf of G	Restaurant, G	its, Gross Sq. Ft. and	rage	etc.)	
	Type of Bui Project Des <u>Addition of</u> <u>Restaurant</u>	ilding Use: cription (i.e. No 33,325 gsf of G	Restaurant, G o. of Dwelling Un Symnasium, Addi	its, Gross Sq. Ft. and	d Use	etc.) Space, Additi	on of 5,000 g
	Type of Bui Project Des <u>Addition of</u> <u>Restaurant</u> Proposed E	ilding Use: cription (i.e. No <u>33,325 gsf of G</u> stimated Sewe	Restaurant, G o. of Dwelling Un ivmuasium, Addi	tion of 3,600 gsf of St	d Use	etc.) Space, Additi (GPD) or	on of 5,000 g
D	Type of Bui Project Des <u>Addition of</u> <u>Restaurant</u> Proposed E Total Net A	eription (i.e. No. 33,325 gsf of G stimated Sewer additional Sewer lability: 14 (	Restaurant, G o. of Dwelling Un Symnasium, Addi r Flow (New Cons r Flow (Remodel/ Capacity Availabl	tits, Gross Sq. Ft. and tits, Gross Sq. Ft. and tion of 3,600 gsf of St struction): Replacement):	d Use	etc.) Space, Additi (GPD) or	on of 5,000 g
1	Type of Bui Project Des <u>Addition of</u> <u>Restaurant</u> Proposed E Total Net A . Sewer Avai	iding Use: eription (i.e. No 33,325 gsf of G stimated Sewer additional Sewer ilability: 14/C	Restaurant, G o. of Dwelling Un Symnasium, Addi Fr Flow (New Cons Fr Flow (Remodel/ Capacity Available Capacity Not Available	symnasium and Stor its, Gross Sq. Ft. and tion of 3,600 gsf of Si struction): Replacement): c ilable Sec Remarks	rage d Use ttorage 1 11,588	etc.) Space, Addition (GPD) or _ _ (GPD) or _	<u>om of 5,000 g</u> (C
1	Type of Bui Project Des <u>Addition of</u> <u>Restaurant</u> Proposed E Total Net A . Sewer Avai	iding Use: eription (i.e. No 33,325 gsf of G stimated Sewer additional Sewer ilability: 14 12 ~ Sewer	Restaurant, G o. of Dwelling Un ymnasium, Addi r Flow (New Cons r Flow (New Cons r Flow (Remodel/ Capacity Available Capacity Not Available Capacity Not Available Capacity Not Available	tits, Gross Sq. Ft. and tits, Gross Sq. Ft. and tion of 3,600 gsf of Si struction): Replacement): t	rage d Use itorage 5 11,588 058.	etc.) Space, Addition (GPD) or _ _(GPD) or _ _ The _ 8	<u>om of 5,000 g</u> (C
1	Type of Bui Project Des <u>Addition of</u> <u>Restaurant</u> Proposed E Total Net A . Sewer Avai . Remarks:	iding Use: eription (i.e. No 33,325 gsf of G stimated Sewer additional Sewer ilability: 14 12 ~ Sewer	Restaurant, G o. of Dwelling Un ymnasium, Addi r Flow (New Cons r Flow (New Cons r Flow (Remodel/ Capacity Available Capacity Not Available Capacity Not Available Capacity Not Available	symnasium and Stor its, Gross Sq. Ft. and tion of 3,600 gsf of Su struction): Replacement): e ilable See Remarks ff490-16-0	rage d Use itorage ! 11,588 058.	etc.) Space, Addition (GPD) or (GPD) or The8	<u>om of 5,000 g</u> (C
1	Type of Bui Project Des <u>Addition of</u> <u>Restaurant</u> Proposed E Total Net A . Sewer Avai	iding Use: eription (i.e. No 33,325 gsf of G stimated Sewer additional Sewer idability: WC 12 <sup>-</sup> Sew West & G Mike	Restaurant, G o. of Dwelling Un ivmnasium, Addi r Flow (New Cons or Flow (New Cons or Flow (Remodel/ Capacity Available Capacity Not Avail a flow (Remodel/ Capacity Not Available Capacity Not Available	symnasium and Stor its, Gross Sq. Ft. and tion of 3,600 gsf of Su struction): Replacement): e ilable See Remarks ff ff Sewer A	rage d Use itorage ! 11,588 058.	etc.) Space, Addition (GPD) or (GPD) or The8	<u>om of 5,000 g</u> (C
1	Type of Bui Project Des <u>Addition of</u> <u>Restaurant</u> Proposed E Total Net A . Sewer Avai . Remarks:	iding Use: eription (i.e. No 33,325 gsf of G stimated Sewer dditional Sewer dditional Sewer 12 Sew 12 Sew West & G Mike Development	Restaurant, G o. of Dwelling Un ivmnasium, Addi r Flow (New Conser Flow (New Conser Flow (Remodel/ Capacity Not Available Capacity Not Availabl	symnasium and Stor its, Gross Sq. Ft. and tion of3,600 gsf of Si struction): Replacement): c itable See Remarks <u>ff</u> Sewer A Checked	cage d Use itorage : 11.588 058.	etc.) Space, Addition (GPD) or (GPD) or The8	<u>om of 5,000 g</u> (C
	Type of Bui Project Des <u>Addition of</u> <u>Restaurant</u> Proposed E Total Net A . Sewer Avai . Remarks:	iding Use: eription (i.e. No 33,325 gsf of G stimated Sewer additional Sewer additional Sewer additional Sewer additional Sewer [12] Sew 12] Sew 12] Sew Mest & G Mike Development Bureau of En (213) 977-603	Restaurant, G o. of Dwelling Un ivmnasium, Addi vmnasium, A	symnasium and Stor its, Gross Sq. Ft. and tion of3,600 gsf of Si struction): Replacement): e ilable See Remarks <u>ff</u> Sewer A Checked Name:	torage : 11,588 058. Availabid d By: Bel	(GPD) or (GPD) or (GPD) or The 8	on of 5,000 g (C (C : :4 :29/29/
1	Type of Bui Project Des <u>Addition of</u> <u>Restaurant</u> Proposed E Total Net A . Sewer Avai . Remarks:	iding Use: eription (i.e. No 33,325 gsf of G stimated Sewer additional Sewer additional Sewer additional Sewer additional Sewer [12] Sew 12] Sew Mest & G Mike Development Bureau of En	Restaurant, G o. of Dwelling Un ivmnasium, Addi vmnasium, A	symnasium and Stor its, Gross Sq. Ft. and tion of3,600 gsf of Si struction): Replacement): c itable See Remarks <u>ff</u>	al Use torage ! 11,588 058. availabid d By: Bureau	etc.) Space, Addition (GPD) or (GPD) or The8	om of 5,000 g (C (C : : : : : : : : : : : : :

	Name of Lan				
			Tel No. (310	) 206-5482	
			Fax No. (310	) 206-1510	<u> </u>
	Location/Job	Address:	405	S. Hilgard Ave.	
				Angeles, CA 90095	
	<b>Building</b> Per	mit Applicati	on No.:		
	Proposed Se	wer Connection	on Location:	Within Veteran Ave.	
	SIMMS MH	Number	From:	To:	Upstream of 52004043
			From:	To:	
			From:	To:	
	Sewer Map	No. 520	_	Wye Map No.	
	Size of Main	Sewer Line i	n the Street:	12"	
				12" (1BR), Apartments (2BR)	Laboratory, Office
•	Type of Buil Project Desc	lding Use:	Apartments	(1BR), Apartments (2BR) inits, Gross Sq. Ft. and Us	Laboratory, Office
	Type of Buil Project Desc Addition of	lding Use: cription (i.e. N 954 (du) Apar	Apartments to. of Dwelling U tments (1BR), A	(1BR), Apartments (2BR) inits, Gross Sq. Ft. and Us	Laboratory, Office
	Type of Buil Project Desc Addition of gsf of Office	lding Use: cription (i.e. N 954 (du) Apa)	Apartments to. of Dwelling U tments (IBR), A	(1BR), Apartments (2BR) inits, Gross Sq. Ft. and Us addition of 523(du) Aparts	Laboratory, Office
	Type of Buil Project Desc <u>Addition of 1</u> <u>gsf of Office</u> Proposed Es	lding Use: cription (i.e. N 954 (du) Apar stimated Sewe	Apartments to. of Dwelling U tments (1BR), A er Flow (New Co	(1BR), Apartments (2BR) inits, Gross Sq. Ft. and Us Addition of 523(du) Apartments instruction): 255,160	Laboratory, Office eetc.) nents (2BR), Addition of 100,0
	Type of Buil Project Desc Addition of gsf of Office Proposed Es Total Net Ad	Iding Use:	Apartments (o. of Dwelling U tments (1BR), A er Flow (New Co er Flow(Remode Capacity Availa)	(1BR), Apartments (2BR) inits, Gross Sq. Ft. and Us addition of 523(du) Apartments instruction): 255,160	<u>. Laboratory, Office</u> eetc.) <u>ments (2BR). Addition of 100.0</u> (GPD) or (CF
	Type of Buil Project Desc Addition of gsf of Office Proposed Es Total Net Au Sewer Avail	Iding Use: eription (i.e. N 954 (du) Apai stimated Sewe dditional Sew ability: X	Apartments (o. of Dwelling U tments (1BR), A er Flow (New Co er Flow(Remode Capacity Availal Capacity Not Av	(1BR), Apartments (2BR) inits, Gross Sq. Ft. and Us addition of 523(du) Apartments instruction):255,160 eVReplacement):	Laboratory, Office eetc.) nents (2BR), Addition of 100,0 (GPD) or (CF (GPD) or (CF
	Type of Buil Project Desc Addition of gsf of Office Proposed Es Total Net Au Sewer Avail	Iding Use:	Apartments io. of Dwelling U treents (IBR), A er Flow (New Co er Flow (New Co er Flow (Remode Capacity Availal Capacity Not Av Capacity Not Av Capacity Not Av Capacity Sort Av Capacity Sort Av	(1BR). Apartments (2BR) inits, Gross Sq. Ft. and Us addition of 523(du) Aparts instruction): 255.160 eVReplacement): ble rallable Sec Remarks	Laboratory, Office eetc.) nents (2BR). Addition of 100.0 (GPD) or (CF (GPD) or (CF

				Tova Lelab			_
			Tel No. (310	) 206-5482		_	
			Fax No. (310	) 206-1510		_	
	Location/Jo	b Address:	405	S. Hileard Ave.			
			Los	Angeles, CA 9009	5		
	Building Pe	rmit Applicati	ion No.:				
	Proposed Se	ewer Connecti	on Location:	Intersection of	of Le Cont	e Ave. & Bronto	n Ave.
	SIMMS MI	I Number	From: De	estron 490 1614	TA To:	Upstream of 4	9016140
			From:		To:		
			From:		To:		
	Sewer Map	No. 490		Wye Map Ne			
				<b>5</b> <sup>10</sup>			
•							
	Type of But	ilding Use:	Ըն	nical Lab		-	
	Project Des	cription (i.e. N	to. of Dwelling (	nical Lab Jnits, Gross Sq. Ft Ib space	and Use.	etc.)	
	Project Des Additio	cription (i.e. Non of 175,000 g	to. of Dwelling U of of Clinical La	Jnits, Gross Sq. Ft 1d space	. and Use.	etc.)	
	Project Des Additio	cription (i.e. Non of 175,000 g	No. of Dwelling U asf of Clinical La er Flow (New Co	Units, Gross Sq. Ft bb space onstruction);	. and Use. 35,000	etc.) (GPD) or	
-	Project Des Addition	cription (i.e. Non of 175,000 g stimated Sewa	No. of Dwelling U est of Clinical La er Flow (New Co ver Flow(Remod	Units, Gross Sq. Ft ab space onstruction): el/Replacement):	. and Use. 35,000	etc.) (GPD) or	
	Project Des Addition	cription (i.e. Non of 175,000 g Stimated Sewe Additional Sewe Ilability:	to. of Dwelling U of <u>of Clinical La</u> er Flow (New Co er Flow(Remod Capacity Availa Capacity Not Av	Units, Gross Sq. Ft b space onstruction); cl/Replacement): ble vailable See Remain	. and Use. 35,000	etc.) (GPD) or (GPD) or	((
.0.	Project Des Addition	cription (i.e. Non of 175,000 g Stimated Sewe Additional Sewe Ilability:	to. of Dwelling U of <u>of Clinical La</u> er Flow (New Co er Flow(Remod Capacity Availa Capacity Not Av	Units, Gross Sq. Ft b space onstruction); cl/Replacement): ble vailable See Remain	. and Use. 35,000	etc.) (GPD) or (GPD) or	((
.0.	Project Des Addition	cription (i.e. Non of 175,000 g Stimated Sewe Additional Sewe Ilability:	to. of Dwelling U of <u>of Clinical La</u> er Flow (New Co er Flow(Remod Capacity Availa Capacity Not Av	Units, Gross Sq. Ft b space onstruction); cl/Replacement): ble vailable See Remain	. and Use. 35,000	etc.) (GPD) or (GPD) or	((
.0.	Project Des Addition	stimated Sew dditional Sew lability: 11 Along 11 How to	to. of Dwelling U of <u>of Clinical La</u> for Flow (New Co rer Flow(Remod Capacity Availa Capacity Not Av // Increase 12, 15	Units, Gross Sq. Ft ab space onstruction): cVReplacement): ble vailable See Remain to flow - flow - for finite - for fi	. and Use. 35,000	etc.) (GPD) or (GPD) or	((
1	Project Des <u>Additio</u> Proposed E Total Nct A Sewer Avai Remarks:	stimated Sew dditional Sew lability: 11 Along 11 How to	to. of Dwelling U of <u>of Clinical La</u> for Flow (New Co rer Flow(Remod Capacity Availa Capacity Not Av // Increase 12, 15	Units, Gross Sq. Ft ab space onstruction): cVReplacement): ble vailable See Remain to flow - flow - for finite - for fi	. and Use. 35,000 rks However	(GPD) or (GPD) or (GPD) or (GPD) or	((
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-	Project Des <u>Additio</u> Proposed E Total Nct A Sewer Avai Remarks:	Additional Sew Additional Sew Itability: W 1 1 Alara II Alara II Alara II Alara II Alara II Developmen Bureau of E	to. of Dwelling U of of Clinical La er Flow (New Co rer Flow (New Co rer Flow (Remod Capacity Availa Capacity Not Av // Increase 12 <sup></sup> , 15 Kanto t Services Divisi agineering	Units, Gross Sq. Ft b space construction); cVReplacement): ble vailable See Remain to flow - Sew on Che	and Use. 35,000 rks However 38 <sup>-</sup> er Availab cked By:	(GPD) or (GPD) or (GPD) or (GPD) or (ine	lander
-	Project Des <u>Additio</u> Proposed E Total Nct A Sewer Avai Remarks:	ecription (i.e. Non of 175,000 g estimated Sew additional Sew ilability: 11 Along 11 Along 10 Along 10 Along 10 Micke Development	to. of Dwelling U of of Clinical La er Flow (New Co rer Flow (New Co rer Flow (Remod Capacity Availa Capacity Not Av // Increase 12	Units, Gross Sq. Ft b space construction): eVReplacement): ble vailable See Remain to flow - then for Sew	and Use. 35,000 rks However 38 <sup>-2</sup> er Availab cked By: ne: Bo	(GPD) or (GPD) or (GPD) or (GPD) or (ine	((

	ius of Cana Owner, Lea	r reenti.	University of California Tova Lelab	
		Tel No. (310	) 206-5482	
			206-1510	
Lo	cation/Job Address:		S. Hilgard Ave.	
		and the second second	Angeles, CA 90095	
B	uilding Permit Applicati	ion No.:		
P	roposed Sewer Connecti	on Location:	Intersection of Stratha	nore Ave. Gayley Ave.
. SI	MMS MH Number			Upstream of 49016032
		From:	10:	
. S	ewer Map No 490		Wye Map No.	
c	ins of Main Cower Line	in the Street:	12"	
. 3	the of wrann Sewer Fine i		14	
. т	ype of Building Use:	Do	mitory	-
. т	ype of Building Use: roject Description (i.e. )	Don No. of Dwelling L	mitory Juits, Gross Sq. Ft. and Use.	etc.)
. т	ype of Building Use: roject Description (i.e. )	Don No. of Dwelling L	mitory	etc.)
. T	ype of Building Use: roject Description (i.e. N <u>Addition of 2,000 bec</u>	Don No. of Dwelling L ds of Dormitory	mits, Gross Sq. Ft. and Use. space	etc.)
. T . P 0. P	ype of Building Use: roject Description (i.e. N <u>Addition of 2,000 ber</u> roposed Estimated Sewa	Don No. of Dwelling L ds of Dormitory er Flow (New Co	mitory Jaits, Gross Sq. Ft. and Use. Space	etc.)
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e. T <u>e.</u> P 10. P 1	ype of Building Use: roject Description (i.e. N <u>Addition of 2,000 ber</u> roposed Estimated Sew Total Net Additional Sew Sewer Availability: M	Don No. of Dwelling L ds of Dormitory : er Flow (New Co ver Flow (Remod Capacity Availa	mitory Jaits, Gross Sq. Ft. and Use. space onstruction): <u>150,000</u> el/Replacement):	
. T . P 0. P 1	ype of Building Use: roject Description (i.e. N Addition of 2,000 bec roposed Estimated Sew fotal Net Additional Sew fewer Availability:	Don No. of Dwelling L ds of Dormitory er Flow (New Co ver Flow (Remod Capacity Availa Capacity Not Av	Daits, Gross Sq. Ft. and Use. space onstruction): <u>150,000</u> el/Replacement): ble vailable See Remarks	etc.) (GPD) or(CFS (GPD) or(CFS
T P . P 1	ype of Building Use: roject Description (i.e. N Addition of 2,000 bec roposed Estimated Sew fotal Net Additional Sew fewer Availability:	Don No. of Dwelling L ds of Dormitory er Flow (New Co ver Flow (Remod Capacity Availa Capacity Not Av	mitory Jaits, Gross Sq. Ft. and Use. space onstruction): <u>150,000</u> el/Replacement): ble	etc.) (GPD) or(G (GPD) or(G
. T . P 0. P 1	ype of Building Use: roject Description (i.e. N Addition of 2,000 bec roposed Estimated Sew fotal Net Additional Sew fewer Availability:	Don No. of Dwelling L ds of Dormitory er Flow (New Co ver Flow (Remod Capacity Availa Capacity Not Av	Daits, Gross Sq. Ft. and Use. space onstruction): <u>150,000</u> el/Replacement): ble vailable See Remarks	etc.) (GPD) or(CF (GPD) or(CF
. T . P . P 11. S 12. F	ype of Building Use: roject Description (i.e. N Addition of 2,000 bec roposed Estimated Sew Total Net Additional Sew Sewer Availability: M I) Remarks: <u>/2/_tractor</u>	Don No. of Dwelling L ds of Dormitory er Flow (New Co ver Flow (Remod Capacity Availa Capacity Not Av	Jaits, Gross Sq. Ft. and Use. space onstruction): <u>150,000</u> el/Replacement): ble vailable See Remarks	etc.) (GPD) or(CFS (GPD) or(CFS
8. T <u>9.</u> P 10. P 1 11. S 12. F	ype of Building Use: roject Description (i.e. N <u>Addition of 2,000 bes</u> roposed Estimated Sew Total Net Additional Sew Total Net Additional Sew Sewer Availability: M I) Remarks: <u>/2/_trac/se</u> sested By: <u>Mack</u>	Don No. of Dwelling L ds of Dormitory er Flow (New Co ver Flow (Remod Capacity Availa Capacity Not Av	Jaits, Gross Sq. Ft. and Use. space onstruction): 150,000 el/Replacement): ble vailable See Remarks Sewer Availa	etc.) (GPD) or(CFS (GPD) or(CFS
8. T 9. P 10. P 1 11. S 12. F	ype of Building Use: roject Description (i.e. N Addition of 2,000 ber roposed Estimated Sew Total Net Additional Sew	No. of Dwelling L is of Dormitory : er Flow (New Co ver Flow (Remod Capacity Availa Capacity Not Av Capacity Not Av Capacity Not Av Capacity Not Av Capacity Services Divisi ingineering	Jaits, Gross Sq. Ft. and Use. space onstruction): 150,000 el/Replacement): ble vailable See Remarks Sewer Availa	etc.) (GPD) or(CFS (GPD) or(CFS

Dellal / Annual 9 Bureau of Sanitation (213) 473-8211 Fax (213) 473-8222

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Tova Lelah         Tel No. (310) 206-5482         Fax No. (310) 206-1510         . Location/Job Address:         495 S. Hilgard Ave.         Los Angeles, CA 90095         . Building Permit Application No.:         Proposed Sewer Connection Location:         Intersection of Ophir Dr. & Veteran Ave.         . Proposed Sewer Connection Location:         Intersection of Ophir Dr. & Veteran Ave.         . SIMMS MH Number         From:         To:         To:         To:         From:         To:         To:         To:         From:         To:         To:         To:         To:         To:         From:         To:         To:         To:         To:         To:         Stre of Main Sewer Line in the Street:         10°         Stre of Building Use:         Storage, Gym, School         2.         Project Description (i.e. No. of Dwelling Units, Gross Sq. Ft and Useetc.)         Addition of 65,500 gsf. Addition of 15,500 gsf of Gymnasium space, Addition of 84 i         I. <t< th=""><th></th><th></th><th>University of California</th><th>u Agency.</th><th></th><th>NAME OF LAN</th><th>•</th></t<>			University of California	u Agency.		NAME OF LAN	•
Fax No. (310) 206-1510         Location/Job Address:       405 S. Hilgard Ave.         Los Angeles, CA 90095         Building Permit Application No.:         Proposed Sewer Connection Location:         Intersection of Ophir Dr. & Veteran Ave.         SIMMS MH Number         From:         To:         To:         To:         To:         From:         To:         To:         From:         To:         To:         To:         From:         To:         To:         To:         To:         To:         To:         To:         To:         To:         Stee of Main Sewer Line in the Street:         10°         Storage, Gym, School         Project Description (i.e. No. of Dwelling Units, Gross Sq. Ft and Useetc.)         Addition of 65.500 gsf. Addition of 15.500 gsf of Gymnasium space, Addition of 84 (1) Capacity Available         [] Capacity Not Available         [] Capacity Not Available         [] Capacity Not Available         Scwer Availability:         PCoropopment Services Division <t< td=""><td></td><td></td><td></td><td>T.I.N. (21</td><td></td><td></td><td></td></t<>				T.I.N. (21			
Location/Job Address:       405 S. Hilgard Ave.         Los Angeles, CA 90095         Building Permit Application No.:         Proposed Sewer Connection Location:         Intersection of Ophir Dr. & Veteran Ave.         SIMMS MH Number         From:         To:         Stee of Main Sewer Line in the Street:         10°         Stee of Main Sewer Line in the Street:         10°         Stee of Building Use:         Storage, Gym, School         Project Description (i.e. No. of Dwelling Units, Gross Sq. Ft. and Useetc.)         Addition of 65,500 gsf. Addition of 15,500 gsf of Gymnasium space, Addition of 24 (GPD) or         Total Net Additional Sewer Flow (New Construction):         7.995       (GPD) or         Total Net Additional Sewer Flow (New Construction):         7.995       (GPD) or         11. Sewer Availability:       [// Capacity Available         [] Capacity Not Available See Remarks         12. Remarks:	•	-					
Los Angeles, CA 90095         Building Permit Application No.:         Proposed Sewer Connection Location:         Intersection of Ophir Dr. & Veteran Ave.         SIMMS MH Number         From:		-	0) 200-1310	FRX NU. (3)			
Building Permit Application No.:			S. Hilgard Ave.	404	Address:	Location/Job	
Proposed Sewer Connection Location:			Angeles, CA 90095	Lo			
SIMMS MH Number       From:	_			on No.:	rmit Applicati	<b>Building Per</b>	
SIMMS MH Number       From:				on Location: _	wer Connectio	Proposed Se	
From:	6023			From: D	I Number	SIMMS MH	
6. Sewer Map No			To:	From:			
9. Size of Main Sewer Line in the Street:       10 <sup>29</sup> 9. Type of Building Use:       Storage, Gym, School         9. Project Description (i.e. No. of Dwelling Units, Gross Sq. Ft. and Useetc.)         Addition of 65,500 gsf, Addition of 15,500 gsf of Gymnasium space, Addition of 84 (         10. Proposed Estimated Sewer Flow (New Construction):       7,995 (GPD) or			To:	From:			
Type of Building Use:	_		Wye Map No.		No. 490	Sewer Map	
Type of Building Use:			10"	n the Street:	Sewer Line i	Size of Main	
Project Description (i.e. No. of Dwelling Units, Gross Sq. Ft. and Useetc.)         Addition of 65,500 gsf, Addition of 15,500 gsf of Gymnasium space, Addition of 84 (10.         10. Proposed Estimated Sewer Flow (New Construction): 7,995 (GPD) or							
Addition of 65,500 gsf, Addition of 15,500 gsf of Gymnasium space, Addition of 84 (         10. Proposed Estimated Sewer Flow (New Construction): 7,995 (GPD) or			Prage, Gym, School	50	laing Use:	Type of Bul	
Total Net Additional Sewer Flow(Remodel/Replacement):							2
Total Net Additional Sewer Flow(Remodel/Replacement):	hildren						
[] Capacity Not Available See Remarks 2. Remarks: Requested By: <u>Mike Kanton</u> Development Services Division Sewer Availability Checked By:		(GPD) or	onstruction): 7,995	r Flow (New C	stimated Sewe	Proposed E	0.
Requested By: Mike Kanton Sower Availability Development Services Division Checked By:	(C)						10.
Development Services Division Checked By:	(CF		el/Replacement):	er Flow(Remo Capacity Avail	dditional Sew	Total Net A	
	(C)		lel/Replacement): able vailable See Remarks	er Flow(Remov Capacity Avail Capacity Not A	dditional Sew dability: 141	Total Net A . Sewer Avail	11.
(213) 977-6032 Name: Burcau of Sanitation (213) 977-6050 Fax Burcau of Sanitation	(CI	_ (GPD) or	lel/Replacement): able vailable See Remarks Gewer Availab ion Checked By:	er Flow(Remod Capacity Avail Capacity Not A Capacity Not A Capacity Not A Capacity Not A	Additional Sew Hability: 14 1 10 <u>Make</u> Development Bureau of Et	Total Net A . Sewer Avail . Remarks:	11.