

TABLE OF CONTENTS

ABBOTT LABORATORIES WEST COAST RESEARCH CENTER DRAFT ENVIRONMENTAL IMPACT REPORT

	<u>Page</u>
I. INTRODUCTION	I-1
A. Environmental Review	I-1
B. This EIR	I-2
C. Range of Alternatives	I-3
D. Use of the EIR	I-4
E. Public Participation	I-4
F. Organization of the Draft EIR	I-4
II. SUMMARY	II-1
A. Project Overview	II-1
B. Environmental Impacts and Mitigation Measures	II-1
C. Alternatives	II-2
III. PROJECT DESCRIPTION	III-1
A. Project Overview	III-1
B. Project Site Location and Site Description	III-3
C. Project Background	III-8
D. Project Characteristics	III-8
E. Construction	III-19
F. Project Sponsor's Objectives	III-19
G. Approval Process	III-20
IV. ENVIRONMENTAL SETTING, IMPACTS AND MITIGATION MEASURES	
A. Land Use and Planning	IV.A-1
B. Geology, Soils and Seismicity	IV.B-1
C. Hydrology and Water Quality	IV.C-1
D. Traffic, Transportation, Circulation and Parking	IV.D-1
E. Air Quality	IV.E-1
F. Noise	IV.F-1
G. Aesthetics and Visual Quality	IV.G-1
H. Biological Resources	IV.H-1
I. Hazards and Hazardous Materials	IV.I-1
J. Public Services	IV.J-1
K. Cultural Resources	IV.K-1
L. Utilities and Service Systems	IV.L-1
M. Population, Jobs, and Housing	IV.M-1

	<u>Page</u>
V. ALTERNATIVES	V-1
A. Introduction	V-1
B. Factors in Selection of Alternatives	V-1
C. Description of Alternatives and Bases for Their Selection	V-2
D. Distinct Environmental Characteristics of Each Alternatives	V-9
E. Environmentally Superior Alternative	V-27
F. Selected Alternatives Considered But Rejected as Infeasible	V-28
VI. IMPACT OVERVIEW	VI-1
A. Significant Unavoidable Environmental Impacts	VI-1
B. Cumulative Impacts	VI-1
C. Growth-inducing Impacts	VI-2
D. Effects Found to Be Less than Significant	VI-3
VII. REPORT PREPARERS	VII-1
 APPENDICES	
A. Notice of Preparation and Initial Study	A-1
B. Comment Letters in Response to the Notice of Preparation and Initial Study	B-1
C. Transportation Demand Management Program	C-1
D. Water Supply Assessment	D-1
E. Transportation Technical Background Information	E-1
 LIST OF TABLES	
II-1 Summary of Environmental Impacts and Mitigation Measures	II-3
III-1 Summary of Project Characteristics	III-1
IV.A-1 Cumulative Future Developments	IV.A-4
IV.A-2 City of Redwood City Zoning Ordinance Regulations	IV.A-13
IV.B-1 Active and Potentially Active Earthquake Faults	IV.B-5
IV.B-2 Modified Mercalli Intensity Scale	IV.B-6
IV.D-1 Definitions for Intersection Level of Service	IV.D-14
IV.D-2 Level of Service Criteria for Ramp Junction Areas	IV.D-15
IV.D-3 Existing Intersection Levels of Service	IV.D-17
IV.D-4 Existing Merging and Diverging Ramp Levels of Service	IV.D-19
IV.D-5 Existing Freeway Segment Levels of Service	IV.D-20
IV.D-6 Background Intersection Levels of Service	IV.D-26
IV.D-7 Background Freeway Ramp Capacity Analysis	IV.D-27
IV.D-8 Background Freeway Segment Levels of Service	IV.D-29
IV.D-9 Project Trip Generation Estimate	IV.D-39
IV.D-10 Background and Project Intersection Levels of Service	IV.D-48
IV.D-11 Project Freeway Ramp Capacity Analysis	IV.D-52
IV.D-12 AM Peak-Hour Project Freeway Segment Levels of Service	IV.D-54
IV.D-13 PM Peak-Hour Project Freeway Segment Levels of Service	IV.D-55
IV.D-14 Abbott Laboratories Proposed Transportation Demand Management Plan	IV.D-57
IV.D-15 Summary of Parking Supply, Code Requirement and Demand (By Phase)	IV.D-63
IV.D-16 Construction Period Estimates	IV.D-67
IV.D-17 “With Blomquist Extension” Intersection Levels of Service	IV.D-70

LIST OF TABLES (continued)

IV.D-18	Cumulative (2020) No Project Intersection Levels of Service	IV.D-76
IV.D-19	Cumulative (2020) No Project Freeway Ramp Capacity Analysis	IV.D-78
IV.D-20	Cumulative (2020) No Project Freeway Segment Level of Service	IV.D-79
IV.D-21	Cumulative No Project and Project Intersection Levels of Service	IV.D-82
IV.D-22	Cumulative With Project Freeway Ramp Capacity Analysis	IV.D-90
IV.D-23	AM Peak-Hour Cumulative Freeway Segment Levels of Service	IV.D-91
IV.D-24	PM Peak-Hour Cumulative Freeway Segment Levels of Service	IV.D-93
IV.E-1	State and National Criteria Air Pollutant Standards, Effects and Sources	IV.E-3
IV.E-2	Air Quality Data Summary (1997-2001) for the Project Area	IV.E-6
IV.E-3	Operational Emissions (Pounds per Day)	IV.E-12
IV.E-4	Estimated Carbon Monoxide Concentrations at Selected Intersections in Project Vicinity	IV.E-13
IV.F-1	Ambient Noise Levels at Monitored Locations, dBA	IV.F-7
IV.F-2	Typical Commercial Construction Noise Levels	IV.F-11
IV.F-3	Traffic Noise Increases Along Local Roadways in the Project Area	IV.F-14
IV.H-1	Special Status Fish and Wildlife Species with the Potential to Occur in the Project Area	IV.H-4
IV.I-1	Federal Laws and Regulations Related to Management of Hazardous Materials	IV.I-2
IV.I-2	Existing Hazardous Materials Use by Perclose	IV.I-12
IV.I-3	Existing Hazardous Waste Generation by Perclose	IV.I-13
IV.I-4	Existing Biohazardous Waste Generation by Perclose	IV.I-14
IV.I-5	Regulatory Sites Listed Near the Project Site	IV.I-17
IV.I-6	Projected Hazardous Waste Generation at the Perclose Building	IV.I-19
IV.I-7	Projected Hazardous Waste Generation at the R&D Buildings	IV.I-19
IV.I-8	Projected Biohazardous Waste Generation at the Perclose Building	IV.I-20
IV.I-9	Exposure Pathways and Controls for Workers	IV.I-24
IV.I-10	Exposure Pathways and Controls for Visitors, the Public, and the Environment	IV.I-25
IV.J-1	Redwood City Schools	IV.J-4
IV.L-1	Projected Project Water Demand	IV.L-9
IV.L-2	Anticipated Available Fire Flows	IV.L-11
IV.L-3	Existing and Proposed Water System Conditions Under Peak Water Demands	IV.L-12
IV.L-4	Proposed Conditions of Pipe Segments with Largest Flow Velocity and Head Loss	IV.L-13
IV.L-5	Projected Project Sewer Demand	IV.L-15
IV.L-6	Projected Solid Waste Generation	IV.L-19
IV.L-7	Projected Energy Use	IV.L-20
IV.M-1	Population and Households in Redwood City, San Mateo County, and the Bay Area: 1990, 2000, and 2002	IV.M-2
IV.M-2	Projections of Population and Households in Redwood City, San Mateo County, and the Bay Area: 2000, 2010, and 2020	IV.M-3
IV.M-3	Changes in the Housing Stock in Redwood City: 1980-2002	IV.M-4
IV.M-4	Opportunities for Additional Housing in Redwood City	IV.M-5
IV.M-5	Residential Sales Activity in San Mateo County in 2002	IV.M-7
IV.M-6	Total Jobs in Redwood City and the Rest of San Mateo County: 1990 and 2000	IV.M-8
IV.M-7	Jobs by Industry for Redwood City and San Mateo County: 1990 and 2000	IV.M-9

LIST OF TABLES (continued)

IV.M-8	Projections of Jobs by Industry for Redwood City, San Mateo County, and the Bay Area: 2000, 2010, and 2020	IV.M-11
IV.M-9	Employed Residents by Place of Work: 2000	IV.M-12
IV.M-10	Places of Residence for People Employed in San Mateo County: 2000	IV.M-13
IV.M-11	Recent Trends in Employment and Labor Market Conditions in the San Mateo County Area: 2000-2002	IV.M-14
IV.M-12	Trends in Jobs and Employed Residents: Redwood City, San Mateo County and the Bay Area Region: 1990 and 2020	IV.M-16
IV.M-13	Abbott Laboratories/Perclose Employment in Redwood City: 2002	IV.M-18
IV.M-14	Places of Residence for Abbott Laboratories/Perclose Employees in Redwood City, by Department, 2002	IV.M-19
IV.M-15	Proposed Project—Change in Project Area Employment: 2002 – Buildout (2010)	IV.M-21
IV.M-16	Change in Abbott Laboratories Redwood City Employment: 2002 – 2010 (Buildout)	IV.M-22

LIST OF FIGURES

III-1	Site Plan	III-2
III-2	Project Location	III-4
III-3	Aerial Photograph of Project Site and Vicinity	III-5
III-4	Existing and Proposed Easements and Lot Subdivision	III-7
III-5	Phase 1 Phasing Diagram	III-10
III-6	Phase 2 Phasing Diagram	III-12
III-7	Phase 3 Phasing Diagram	III-14
III-8	Circulation Diagram	III-15
III-9	Building Sections	III-18
IV.A-1	General Plan Land Use Designations	IV.A-7
IV.B-1	Active and Potentially Active Bay Area Earthquake Faults	IV.B-7
IV.D-1	Project Site Location and Study Intersections	IV.D-2
IV.D-2	Existing Multi-Use Paths	IV.D-7
IV.D-3a	Existing Lane Configurations	IV.D-9
IV.D-3b	Existing Lane Configurations	IV.D-10
IV.D-4a	Existing Peak-Hour Volumes	IV.D-11
IV.D-4b	Existing Peak-Hour Volumes	IV.D-12
IV.D-5	Background Intersection Modifications	IV.D-22
IV.D-6a	Background Intersection Peak-Hour Volumes	IV.D-23
IV.D-6b	Background Intersection Peak-Hour Volumes	IV.D-24
IV.D-7	Project Trip Distribution	IV.D-43
IV.D-8a	Project Trip Assignment	IV.D-44
IV.D-8b	Project Trip Assignment	IV.D-45
IV.D-9a	Project Intersection Peak-Hour Volumes	IV.D-46
IV.D-9b	Project Intersection Peak-Hour Volumes	IV.D-47
IV.D-10	Site Plan	IV.D-65
IV.D-11a	Cumulative No Project Intersection Peak-Hour Volumes	IV.D-74
IV.D-11b	Cumulative No Project Intersection Peak-Hour Volumes	IV.D-75
IV.D-12a	Cumulative with Project Peak-Hour Volumes	IV.D-80
IV.D-12b	Cumulative with Project Peak-Hour Volumes	IV.D-81

LIST OF FIGURES (Continued)

IV.F-1	Noise Monitoring Locations	IV.F-6
IV.G-1	Viewpoint Location Map	IV.G-4
IV.G-2	Project Photos	IV.G-5
IV.G-3	Project Photos	IV.G-6
IV.G-4	Building Sections and Sightlines	IV.G-16
IV.G-5	Project Photos and Simulation	IV.G-20
IV.G-6	Project Photos and Simulation	IV.G-21
IV.G-7	Artist's Rendering	IV.G-23
IV.G-8	Artist's Rendering	IV.G-24
V-1	Industrial Park Zoning District Alternative	V-4
V-2	Reduced Height Alternative	V-6
V-3	Split-Site Alternative	V-8