

## TABLE OF CONTENTS

### *Volume I*

I.	INTRODUCTION.....	1
A.	PURPOSE OF THE EIR .....	1
B.	PROPOSED PROJECT.....	2
C.	EIR SCOPE .....	4
D.	REPORT ORGANIZATION .....	5
II.	SUMMARY .....	7
A.	PROJECT UNDER REVIEW .....	7
B.	SUMMARY OF IMPACTS AND MITIGATION MEASURES .....	7
C.	SUMMARY TABLE.....	13
III.	PROJECT DESCRIPTION .....	53
A.	INTRODUCTION .....	53
B.	REGIONAL LOCATION AND GENERAL SETTING .....	53
C.	PROJECT BACKGROUND .....	56
D.	PROJECT OBJECTIVES.....	58
E.	DRAFT GENERAL PLAN .....	58
F.	ANTICIPATED ADOPTION AND IMPLEMENTATION .....	92
G.	INTENDED USES OF THE EIR.....	94
IV.	SETTING, IMPACTS AND MITIGATION MEASURES .....	97
A.	LAND USE AND HOUSING.....	101
B.	AGRICULTURAL RESOURCES .....	165
C.	TRANSPORTATION AND CIRCULATION.....	207
D.	AIR QUALITY .....	273
E.	NOISE .....	307
F.	GLOBAL CLIMATE CHANGE.....	335
G.	PUBLIC SERVICES .....	373
H.	UTILITIES AND ENERGY .....	431
I.	CULTURAL RESOURCES.....	515
J.	BIOLOGICAL RESOURCES.....	551
K.	HYDROLOGY AND WATER QUALITY .....	637
L.	GEOLOGY, SOILS, SEISMICITY AND MINERAL RESOURCES.....	679
M.	HAZARDS AND HAZARDOUS MATERIALS .....	709
N.	VISUAL AND SCENIC RESOURCES.....	729

*Volume II*

V.	ALTERNATIVES .....	761
A.	ALTERNATIVES THAT WERE CONSIDERED BUT REJECTED.....	762
B.	ALTERNATIVES TO THE PROPOSED PROJECT .....	765
C.	ENVIRONMENTALLY-SUPERIOR ALTERNATIVE.....	793
D.	COMPARISON OF DRAFT GENERAL PLAN PROJECT SITE ALTERNATIVES .....	793
VI.	CEQA CONSIDERATIONS.....	799
A.	GROWTH-INDUCING IMPACTS .....	799
B.	SIGNIFICANT IRREVERSIBLE CHANGES .....	803
C.	CUMULATIVE IMPACTS .....	805
VII.	REPORT PREPARATION .....	819
A.	REPORT PREPARATION .....	819
B.	PRIMARY COUNTY CONTACTS .....	820
C.	REFERENCES .....	820
D.	COMMUNICATIONS .....	838

**APPENDICES**

- Appendix A: Notice of Preparation (NOP) and Comment Letters
- Appendix B: Land Use Tables
- Appendix C: Transportation and Circulation Data
- Appendix D: Air Quality Data and Global Climate Change Data
- Appendix E: Noise Data
- Appendix F: Major Plant Community and Cover Type Map Layers

## FIGURES

Figure III-1:	County and Regional Location Map .....	54
Figure III-2:	General Plan Land Uses and Community Area Locations.....	63
Figure III-2a:	General Plan Land Uses and Community Areas.....	64
Figure III-2b:	General Plan Land Uses and Community Areas.....	65
Figure III-2c:	General Plan Land Uses and Community Areas – Clarksburg .....	66
Figure III-2d:	General Plan Land Uses and Community Areas – Capay Valley .....	67
Figure III-2e:	General Plan Land Uses and Other Areas – Davis Area.....	68
Figure III-2f:	General Plan Land Uses and Other Areas – Davis Area.....	69
Figure III-2g:	General Plan Land Uses and Other Areas – Woodland Area .....	70
Figure III-3:	General Plan Circulation Map.....	73
Figure III-4:	Targeted Future Agricultural Commercial and Agricultural Industrial Sites.....	89
Figure IV.A-1:	Delta Protection Zones .....	115
Figure IV.B-1:	Top 10 Agricultural Commodities .....	169
Figure IV.B-2:	Irrigated Land Capability Classification .....	173
Figure IV.B-3:	Important Farmlands .....	177
Figure IV.B-4:	Williamson Act Contracts .....	183
Figure IV.C-1:	Existing Study Roadway Functional Classification .....	209
Figure IV.C-2:	Existing Study Roadway Number of Lanes .....	210
Figure IV.C-3:	Existing AM Peak Hour Roadway Traffic Volumes and LOS .....	215
Figure IV.C-4:	Existing PM Peak Hour Roadway Traffic Volumes and LOS .....	216
Figure IV.C-5:	Existing Vehicle Accident Data on County Roads (February 2001-June 2004)...	217
Figure IV.C-6:	Existing Transit Routes and Park-and-Ride Lots .....	221
Figure IV.C-7:	General Bikeway Classifications .....	224
Figure IV.C-8:	Existing Bikeway Facilities.....	225
Figure IV.C-9:	Existing Goods Movement and Aviation Facilities .....	229
Figure IV.C-10:	Draft 2030 General Plan AM Peak Hour Roadway Traffic Volumes and LOS ...	253
Figure IV.C-11:	Draft 2030 General Plan PM Peak Hour Roadway Traffic Volumes and LOS ....	254
Figure IV.F-1:	USGS Projected 2100 Sea Level Rise .....	365
Figure IV.G-1:	Fire Protection Districts .....	381
Figure IV.G-2:	School Districts .....	395
Figure IV.G-3:	Other Public Facilities.....	413
Figure IV.G-4:	Existing Public Parks and Trails .....	419
Figure IV.G-5:	Future Parks and Trails .....	420
Figure IV.H-1:	Groundwater Subbasins and Infiltration Rates in Yolo County.....	435
Figure IV.H-2:	Major Waterways and Surface Waters.....	436
Figure IV.H-3:	Community Service Districts and County Service Areas .....	439
Figure IV.H-4:	Water Districts .....	443
Figure IV.H-5:	Utility Easements .....	495

Figure IV.J-1:	Vegetation Types .....	553
Figure IV.J-2:	Special-status Plant Species Occurring in Yolo County .....	567
Figure IV.J-3:	Special-status Animal Species Occurring in Yolo County .....	569
Figure IV.J-4:	Critical Habitat.....	587
Figure IV.J-5:	Swainson's Hawk Observations in Yolo County.....	593
Figure IV.J-6:	Vacant Lands to be Built Out Under 2030 General Plan .....	615
Figure IV.K-1	Relative Soil Infiltration Properties and Delineation of Groundwater Subbasins, Yolo County.....	639
Figure IV.K-2:	Watersheds.....	643
Figure IV.K-3:	Major Waterways.....	644
Figure IV.K-4:	100- and 200-Year Flood Zones .....	647
Figure IV.K-5:	Flood Control System .....	648
Figure IV.K-6:	Dam Inundation Zones.....	649
Figure IV.L-1:	Regional Soils .....	681
Figure IV.L-2:	Regional Mineral and Gas Resources .....	685
Figure IV.L-3:	Faults.....	687
Figure IV.L-4:	Regional Ground Shaking Hazard .....	689
Figure IV.L-5:	Expansive Soils .....	693
Figure IV.L-6:	Landslide Susceptibility .....	694
Figure IV.M-1:	Fire Hazard Severity Zones in SRA.....	719
Figure IV.M-2:	Draft Fire Hazard Severity Zones in LRA .....	720
Figure IV.N-1:	Scenic Highways, Visual Analysis Subareas and Photo Locations .....	731
Figure IV.N-2:	Views Within and Across the County.....	732
Figure IV.N-3:	Views Within and Across the County .....	735
Figure IV.N-4:	Views Within and Across the County.....	736
Figure IV.N-5:	Views Within and Across the County.....	737
Figure IV.N-6:	Visual Qualities of the Study Area.....	738
Figure IV.N-7:	Visual Qualities of the Study Area.....	741
Figure IV.N-8:	Visual Qualities of the Study Area.....	745

## TABLES

Table II-1:	Summary of Impacts and Mitigation Measures .....	14
Table III-1:	Land Use Definitions, Densities, and Floor Area Ratios .....	60
Table III-2:	Summary of Draft General Plan Land Uses Comparison (1983 to 2030).....	62
Table III-3:	Extent of Specific Plan Areas .....	71
Table III-4:	Land Use Overlay Areas .....	71
Table III-5:	Unincorporated County: Summary of Existing and Allowed Development.....	80
Table III-6:	Specific Plan Build-out Land Uses (Acres) .....	81
Table III-7:	Allowed Residential Growth (Acres).....	83
Table III-8:	Allowed Residential Growth (Units) .....	84
Table III-9:	Allowed Commercial and Industrial Growth (Acres).....	85
Table III-10:	Existing and Build-out Job Growth (Jobs).....	86
Table III-11:	Anticipated Agricultural Commercial & Agricultural Industrial Growth (Acres)..	86
Table III-12:	Agencies Responsible for Plan-Related Approvals and Regulatory Review.....	95
Table IV.A-1:	County Population and Housing Statistics (2008) .....	101
Table IV.A-2:	Extent of Existing 1983 General Plan Land Use Designations.....	105
Table IV.A-3:	County Population 1990-2000 .....	106
Table IV.A-4:	County Household Size 2000-2008 .....	106
Table IV.A-5:	County Household Trends 2000-2008 .....	106
Table IV.A-6:	County Jobs by Industry Sector (2000 to 2006).....	108
Table IV.A-7:	Yolo County Existing Jobs/Housing Balance .....	109
Table IV.A-8:	Proposed Change in Land Use Development Envelopes .....	140
Table IV.A-9:	Proposed Change in Land Use Designations (Acres) .....	142
Table IV.A-10:	Existing and 2030 Build-out Jobs/Housing Balance.....	145
Table IV.A-11:	Yolo County RHNA and Potential Units for 2008 to 2013 .....	151
Table IV.B-1:	Yolo County Agricultural Soils .....	171
Table IV.B-2:	Yolo County Important Farmland.....	175
Table IV.B-3:	Potential Production Value Losses.....	202
Table IV.C-1:	Operational Class and Peak Hour Level-of-Service Thresholds.....	213
Table IV.C-2:	State Facilities Accident History.....	219
Table IV.C-3:	Regional Transportation Performance Measures for Entire Yolo County .....	243
Table IV.C-4:	AM Peak Hour Traffic Forecasts and LOS .....	252
Table IV.C-5:	PM Peak Hour Traffic Forecasts and LOS .....	255
Table IV.D-1:	Health Effects of Air Pollutants .....	274
Table IV.D-2:	Federal and State Ambient Air Quality Standards .....	275
Table IV.D-3:	Ambient Air Quality Results.....	282
Table IV.D-4:	Attainment Status for the Yolo-Solano Air Quality Management District .....	283
Table IV.D-5:	Summary of Estimated Construction-Related Emissions .....	291
Table IV.D-6:	2030 Draft General Plan CO Concentrations (in ppm) .....	294
Table IV.D-7:	Regional Emissions from Build-out of the Draft General Plan .....	296
Table IV.D-8:	CARB's Recommendations on Siting New Sensitive Land Uses.....	300

Table IV.E-1:	Definitions of Acoustical Terms .....	308
Table IV.E-2:	Typical A-Weighted Sound Levels.....	309
Table IV.E-3:	Typical Vibration Source Levels for Construction Equipment.....	312
Table IV.E-4:	Existing Highway Traffic Noise Levels.....	313
Table IV.E-5:	Existing County Roadway Traffic Noise Levels .....	314
Table IV.E-6:	Train Noise Contours .....	315
Table IV.E-7:	Short-Term Ambient Noise Monitoring Locations and Primary Noise Sources ..	317
Table IV.E-8:	Short-Term Ambient Noise Monitoring Results.....	317
Table IV.E-9:	Noise Produced by Typical Mining Operations.....	318
Table IV.E-10:	Typical Construction Equipment Maximum Noise Levels, L <sub>max</sub> .....	318
Table IV.E-11:	Summary of EPA Noise Levels .....	319
Table IV.E-12:	Cumulative (2030) Highway Traffic Noise Levels With Build-Out of 1983 General Plan.....	326
Table IV.E-13:	Cumulative (2030) County Roadway Traffic Noise Levels With Build-Out of 1983 General Plan.....	327
Table IV.E-14:	Cumulative (2030) Highway Traffic Noise Levels With Build-Out of Draft General Plan .....	328
Table IV.E-15:	Cumulative (2030) County Roadway Traffic Noise Levels With Build-Out of Draft General Plan.....	329
Table IV.F-1:	Global Warming Potential of Greenhouse Gases.....	337
Table IV.F-2:	Yolo County - Existing Greenhouse Gas Emissions.....	359
Table IV.F-3:	Yolo County – 2030 Draft General Plan Greenhouse Gas Emissions .....	360
Table IV.F-4:	Draft General Plan Compliance with GHG Emission Reduction Strategies.....	369
Table IV.G-1:	Total Build-out Population in Areas with Largest Residential Growth .....	378
Table IV.G-2:	Table LU-10 of Draft General Plan (Community Planning Guidelines) .....	378
Table IV.G-3:	Summary of Fire Protection Districts .....	382
Table IV.G-4:	AMR Response Standards For Yolo County .....	388
Table IV.G-5:	School District Enrollment And Capacity In Yolo County (2007/2008).....	396
Table IV.G-6:	Student Generation Yield By School District .....	404
Table IV.G-7:	School Facility Yield by District.....	404
Table IV.G-8:	Summary of Existing Parks.....	418
Table IV.G-9:	Community Park Acreage Required At Build-out of Draft General Plan.....	427
Table IV.H-1:	Water Systems in Unincorporated Yolo County.....	438
Table IV.H-2:	Applied Water Use by Crop Type in the Sacramento River Valley .....	442
Table IV.H-3:	Projected 2030 Water Demand (gpd).....	456
Table IV.H-4:	Wastewater Systems in Unincorporated Yolo County.....	467
Table IV.H-5:	Projected Residential 2030 Wastewater Generated at Build-out of the Draft General Plan (gpd).....	473
Table IV.H-6:	Additional Solid Waste Generated at Build-out of Draft General Plan (pounds/day) .....	493
Table IV.H-7:	Projected Annual Energy Demand At Build-out Of Draft General Plan (kwh)....	507

Table IV.J-1:	Special-status Plants Known to Occur or Potentially Occurring in Yolo County.....	571
Table IV.J-2:	Special-status Wildlife Known to Occur or Potentially Occurring in Yolo County.....	578
Table IV.L-1:	Soil Associations for Yolo County .....	683
Table IV.L-2:	Modified Mercalli Scale.....	688
Table V-1:	Summary of CEQA Alternatives .....	766
Table V-2:	CEQA Alternatives Compared to Draft General Plan .....	766
Table V-3:	Alternatives Comparison of Impacts.....	767
Table V-4:	Alternatives Comparison of Project Objectives Achievement.....	768
Table V-5:	Vehicle Miles Traveled (VMT) based on SACSIM Travel Demand Model .....	772
Table V-6:	No Project (1983 General Plan) Alternative - Motor Vehicle Emissions .....	773
Table V-7:	Rural Sustainability Alternative - Motor Vehicle Emissions.....	782
Table V-8:	Market Demand Alternative - Motor Vehicle Emissions.....	788
Table V-9:	Clarksburg Agricultural Industrial Alternative Comparative Impact Analysis....	795
Table V-10:	Interstate 505 Highway Commercial Alternative Comparative Impact Analysis.	797

