**Valley South Subtransmission Project  
Final EIR**

[**Cover**](1%20Valley%20South%20Final%20EIR/000%20Cover_FinalEIR.pdf)

[**Title Page**](1%20Valley%20South%20Final%20EIR/000%20Title%20Page.pdf)

[**Executive Summary**](1%20Valley%20South%20Final%20EIR/0%20Executive%20Summary.pdf)

ES.1 Introduction and Background

ES.2 Environmental Analysis

ES.3 Alternatives

ES.4 Summary of Environmental Impacts and Mitigation Measures

[**A. Introduction**](1%20Valley%20South%20Final%20EIR/A%20Introduction.pdf)

A.1 Overview of the Proposed Project

A.2 Project Objectives, Purpose, and Need

A.3 Agency Use of this Document

A.4 Overview of the Environmental Review Process

A.5 Reader’s Guide to this EIR

**[B. Project Description](1%20Valley%20South%20Final%20EIR/B%20Project%20Description.pdf)**

B.1 Project Overview

B.2 Project Location

B.3 Project Components

B.4 Project Construction

B.5 Operation and Maintenance

B.6 Electric and Magnetic Fields Management

B.7 Applicant Proposed Measures

**C. Environmental Analysis**

**[C.1 Introduction to Environmental Analysis](1%20Valley%20South%20Final%20EIR/C-1%20Intro%20%20Env%20Analysis.pdf)**

C.1.1 Organization of Section C

C.1.2 Analytical Assumptions

C.1.3 Environmental Assessment Methodology

C.1.4 Cumulative Scenario and Methodology

C.1.5 Applicant-Proposed Measures

C.1.6 Mitigation Monitoring

[**C.2 Aesthetics**](1%20Valley%20South%20Final%20EIR/C-2%20Aesthetics.pdf)

Introduction

Scoping Issues Addressed

C.2.1 Environmental Setting

C.2.2 Regulatory Framework

C.2.3 Applicant-Proposed Measures

C.2.4 Environmental Impacts and Mitigation Measures

**[C.3 Agricultural Resources](1%20Valley%20South%20Final%20EIR/C-3%20Agricultural%20Resources.pdf)**

Introduction

Scoping Issues Addressed

C.3.1 Environmental Setting

C.3.2 Regulatory Framework

C.3.3 Applicant-Proposed Measures

C.3.4 Environmental Impacts and Mitigation Measures

**[C.4 Air Quality](1%20Valley%20South%20Final%20EIR/C-4%20Air%20Quality.pdf)**

Introduction

Scoping Issues Addressed

C.4.1 Environmental Setting

C.4.2 Regulatory Framework

C.4.3 Applicant-Proposed Measures

C.4.4 Environmental Impacts and Mitigation Measures

[**C.5 Biological Resources**](1%20Valley%20South%20Final%20EIR/C-5%20BioResources.pdf)

Introduction

Scoping Issues Addressed

C.5.1 Environmental Setting

C.5.2 Regulatory Framework

C.5.3 Applicant-Proposed Measures

C.5.4 Environmental Impacts and Mitigation Measures

[**C.6 Cultural and Paleontological Resources**](1%20Valley%20South%20Final%20EIR/C-6%20Cultural%20and%20Paleo.pdf)

Introduction

Scoping Issues Addressed

C.6.1 Environmental Setting

C.6.2 Regulatory Framework

C.6.3 Applicant-Proposed Measures

C.6.4 Environmental Impacts and Mitigation Measures

**[C.7 Geology and Soils](1%20Valley%20South%20Final%20EIR/C-7%20Geology%20and%20Soils.pdf)**

Introduction

Scoping Issues Addressed

C.7.1 Environmental Setting

C.7.2 Regulatory Framework

C.7.3 Applicant-Proposed Measures

C.7.4 Environmental Impacts and Mitigation Measures

[**C.8 Greenhouse Gas Emissions**](1%20Valley%20South%20Final%20EIR/C-8%20Greenhouse%20Gas.pdf)

Introduction

Scoping Issues Addressed

C.8.1 Environmental Setting

C.8.2 Regulatory Framework

C.8.3 Applicant-Proposed Measures

C.8.4 Environmental Impacts and Mitigation Measures

[**C.9 Hazards and Hazardous Materials**](1%20Valley%20South%20Final%20EIR/C-9%20Haz-HazMatls.pdf)

Introduction

Scoping Issues Addressed

C.9.1 Environmental Setting

C.9.2 Regulatory Framework

C.9.3 Applicant-Proposed Measures

C.9.4 Environmental Impacts and Mitigation Measures

[**C.10 Hydrology and Water Quality**](1%20Valley%20South%20Final%20EIR/C-10%20Hydro-Water%20Qual.pdf)

Introduction

Scoping Issues Addressed

C.10.1 Environmental Setting

C.10.2 Regulatory Framework

C.10.3 Applicant-Proposed Measures

C.10.4 Environmental Impacts and Mitigation Measures

[**C.11 Land Use and Planning**](1%20Valley%20South%20Final%20EIR/C-11%20Land%20Use.pdf)

Introduction

Scoping Issues Addressed

C.11.1 Environmental Setting

C.11.2 Regulatory Framework

C.11.3 Applicant-Proposed Measures

C.11.4 Environmental Impacts and Mitigation Measures

[**C.12 Noise**](1%20Valley%20South%20Final%20EIR/C-12%20Noise.pdf)

Introduction

Scoping Issues Addressed

General Information on Noise

General Information on Vibration

C.12.1 Environmental Setting

C.12.2 Regulatory Framework

C.12.3 Applicant-Proposed Measures

C.12.4 Environmental Impacts and Mitigation Measures

[**C.13 Recreation**](1%20Valley%20South%20Final%20EIR/C-13%20Recreation.pdf)

Introduction

Scoping Issues Addressed

C.13.1 Environmental Setting

C.13.2 Regulatory Framework

C.13.3 Applicant-Proposed Measures

C.13.4 Environmental Impacts and Mitigation Measures

[**C.14 Transportation and Traffic**](1%20Valley%20South%20Final%20EIR/C-14%20Trans-Traffic.pdf)

Introduction

Scoping Issues Addressed

C.14.1 Environmental Setting

C.14.2 Regulatory Framework

C.14.3 Applicant-Proposed Measures

C.14.4 Environmental Impacts and Mitigation Measures

**[D. Alternatives](1%20Valley%20South%20Final%20EIR/D%20Alternatives.pdf)**

D.1 CEQA Requirements

D.2 Alternatives Screening Methodology

D.3 Alternatives Retained for Analysis

D.4 Alternatives Eliminated from Full EIR Evaluation

D.5 Comparison of Alternatives

**[E. Other CEQA Considerations](1%20Valley%20South%20Final%20EIR/E%20Other%20CEQA%20Consid.pdf)**

E.1 Environmental Effects Found not to be Significant

E.2 Significant Effects that Can Not be Avoided

E.3 Irreversible and Irretrievable Commitments of Resources

E.4 Growth-Inducing Impacts

E.5 Energy Conservation

E.6 Intentional Destructive Acts

**[F. Public Participation and Consultation](1%20Valley%20South%20Final%20EIR/F%20Particpation%20and%20Consultation.pdf)**

F.1 Public Participation and Notification

F.2 Organization and Tribal Consultation

F.3 EIR Preparers

**[G. References](1%20Valley%20South%20Final%20EIR/G%20References.pdf)**

**[H. Glossary and Acronyms](1%20Valley%20South%20Final%20EIR/H%20Glossary%20and%20Acronyms.pdf)**

**Appendices**

[Appendix 1 Scoping Summary](2%20Valley%20South%20Final%20EIR%20Appendices/Appendix%201%20Scoping%20Summary.pdf)

[Appendix 2 Air Quality](2%20Valley%20South%20Final%20EIR%20Appendices/Appendix%202%20Air%20Quality.pdf)

[Appendix 3 Biological Resources](2%20Valley%20South%20Final%20EIR%20Appendices/Appendix%203%20Biological%20Resources.pdf)

[3-1. Observed Wildlife List](2%20Valley%20South%20Final%20EIR%20Appendices/Appendix%203%20Biological%20Resources.pdf)

[3-2. Plants Observed](2%20Valley%20South%20Final%20EIR%20Appendices/Appendix%203%20Biological%20Resources.pdf)

[Appendix 4 Alternatives Screening Report](2%20Valley%20South%20Final%20EIR%20Appendices/Appendix%204%20Alternatives%20Screening%20Report.pdf)

[Appendix 5 Comments and Responses](2%20Valley%20South%20Final%20EIR%20Appendices/Appendix%205%20Comments%20and%20Responses.pdf)

[Appendix 6 Mitigation Monitoring Plan](2%20Valley%20South%20Final%20EIR%20Appendices/Appendix%206%20Mitigation%20Monitoring%20Plan.pdf)

**Figures**

[Figure ES-1 Project Location and Vicinity](3%20Figures/0ES-1_Project%20Vicinity-rev.pdf)

[Figure ES-2 Subtransmission Line Route](3%20Figures/0ES-2_SubtransLineRoute.pdf)

[Figure A-1 Project Location and Vicinity](3%20Figures/A-1_Project%20Vicinity-rev.pdf)

[Figure A-2 The EIR Process](3%20Figures/FigA-2_EIRProcess.pdf)

[Figure B-1 Subtransmission Line Route](3%20Figures/B-1_SubtransLineRoute.pdf)

[Figure B-2a Typical Subtransmission Structures](3%20Figures/B-2a_TypSubtransStruct.pdf)

[Figure B-2b Typical Subtransmission Structures](3%20Figures/B-2b_TypSubtransStruct.pdf)

[Figure B-2c Typical Subtransmission Structures](3%20Figures/B-2c_TypSubtransStruct.pdf)

[Figure B-2d Typical Subtransmission Structures](3%20Figures/B-2d_TypSubtransStruct.pdf)

[Figure B-3 Example of Existing Marker Ball (Prior to Installation)](3%20Figures/FigB-3_MarkerBalls.pdf)

[Figure B-4 Typical Subtransmission Vault](3%20Figures/B-4_TypSubtransVault.pdf)

[Figure B-5 Typical Subtransmission Duct Bank](3%20Figures/B-5_TypSubtransDuctBank.pdf)

[Figure B-6a ROW Ownership](3%20Figures/B-6a_ROW.pdf)

[Figure B-6b ROW Ownership](3%20Figures/B-6b_ROW.pdf)

[Figure B-6c ROW Ownership](3%20Figures/B-6c_ROW.pdf)

[Figure B-7 Proposed Staging Yards](3%20Figures/B-7_StagingYards.pdf)

[Figure B-8 Proposed Pull and Tension Sites, Splicing Sites, and Guard Structures](3%20Figures/B-8_PullSites.pdf)

[Figure B-9 Proposed Subtransmission Line Route EMF Evaluation Sections](3%20Figures/FigB-9_EMFEvaluationSections.pdf)

[Figure C.1-1 Cumulative Projects](3%20Figures/C.1-1_Cumulative.pdf)

[Figure C.2-1 KOP Locations](3%20Figures/C.2-1_KOP_basemap.pdf)

[Figure C.2-2a KOP 1 Leon Rd. at Simpson Rd. – Existing View](3%20Figures/C.2-2a_KOP1_Existing.pdf)

[Figure C.2-2b KOP 1 Leon Rd. at Simpson Rd. – Visual Simulation](3%20Figures/C.2-2b_KOP1_Sim.pdf)

[Figure C.2-3a KOP 2 Domenigoni Parkway – Existing View](3%20Figures/C.2-3a_KOP2_Existing.pdf)

[Figure C.2-3b KOP 2 Domenigoni Parkway – Visual Simulation](3%20Figures/C.2-3b_KOP2_Sim.pdf)

[Figure C.2-3c Linear Viewpoint Map – Domenigoni Parkway](3%20Figures/C.2-3c_linear%20viewpoint%20map.pdf)

[Figure C.2-4a KOP 3 Northbound Leon Road – Existing View](3%20Figures/C.2-4a_KOP3_Existing.pdf)

[Figure C.2-4b KOP 3 Northbound Leon Road – Visual Simulation](3%20Figures/C.2-4b_KOP3_Sim.pdf)

[Figure C.2-5a KOP 4 Leon Road at Fowler Drive – Existing View](3%20Figures/C.2-5a_KOP4-Existing.pdf)

[Figure C.2-5b KOP 4 Leon Road at Fowler Drive – Visual Simulation](3%20Figures/C.2-5b_KOP4_Sim.pdf)

[Figure C.2-6a KOP 5 Lantana Way at Leon Road – Existing View](3%20Figures/C.2-6a_KOP5_Existing.pdf)

[Figure C.2-6b KOP 5 Lantana Way at Leon Road – Visual Simulation](3%20Figures/C.2-6b_KOP5_Sim.pdf)

[Figure C.2-7a KOP 6 Westbound SR 79 – Existing View](3%20Figures/C.2-7a_KOP6_Existing.pdf)

[Figure C.2-7b KOP 6 Westbound SR 79 – Visual Simulation](3%20Figures/C.2-7b_KOP6_Sim.pdf)

[Figure C.2-8a KOP 7 Benton Road – Existing View](3%20Figures/C.2-8a_KOP7_Existing.pdf)

[Figure C.2-8b KOP 7 Benton Road – Visual Simulation](3%20Figures/C.2-8b_KOP7_Sim.pdf)

[Figure C.2-9a KOP 8 Murrieta Hot Springs Road – Existing View](3%20Figures/C.2-9a_KOP8_Existing.pdf)

[Figure C.2-9b KOP 8 Murrieta Hot Springs Road – Visual Simulation](3%20Figures/C.2-9b_KOP8_Sim.pdf)

[Figure C.2-10a KOP 9 Suzi Lane – Existing View](3%20Figures/C.2-10a_KOP9_Existing.pdf)

[Figure C.2-10b KOP 9 Suzi Lane – Visual Simulation](3%20Figures/C.2-10b_KOP9_Sim.pdf)

[Figure C.3-1a Farmland Designations](3%20Figures/C.3-1a_FarmlandDesignations.pdf)

[Figure C.3-1b Farmland Designations](3%20Figures/C.3-1b_FarmlandDesignations.pdf)

[Figure C.3-1c Farmland Designations](3%20Figures/C.3-1c_FarmlandDesignations.pdf)

[Figure C.4-1 Wind Rose from Perris Valley Monitoring Station (2007-2011)](3%20Figures/FigC.4-1_WindRose.pdf)

[Figure C.5-1a Map A Vegetation and Cover Types](3%20Figures/C.5-1a_VegetationA.pdf)

[Figure C.5-1b Map B Vegetation and Cover Types](3%20Figures/C.5-1b_VegetationB.pdf)

[Figure C.5-1c Map C Vegetation and Cover Types](3%20Figures/C.5-1c_VegetationC.pdf)

[Figure C.5-1d Map D Vegetation and Cover Types](3%20Figures/C.5-1d_VegetationD.pdf)

[Figure C.5-2a Map A Jurisdictional Features](3%20Figures/C.5-2a_JD.pdf)

[Figure C.5-2b Map B Jurisdictional Features](3%20Figures/C.5-2b_JD.pdf)

[Figure C.5-2c Map C Jurisdictional Features](3%20Figures/C.5-2c_JD.pdf)

[Figure C.5-2d Map D Jurisdictional Features](3%20Figures/C.5-2d_JD.pdf)

[Figure C.5-2e Map E Jurisdictional Features](3%20Figures/C.5-2e_JD.pdf)

[Figure C.5-2f Map F Jurisdictional Features](3%20Figures/C.5-2f_JD.pdf)

[Figure C.5-2g Map G Jurisdictional Features](3%20Figures/C.5-2g_JD.pdf)

[Figure C.5-3a Map A CNDDB](3%20Figures/C.5-3a_CNDDB.pdf)

[Figure C.5-3b Map B CNDDB](3%20Figures/C.5-3b_CNDDB.pdf)

[Figure C.5-4a Map A Special Status Plant Species Occurrences](3%20Figures/C.5-4a.pdf)

[Figure C.5-4b Map B Special Status Plant Species Occurrences](3%20Figures/C.5-4b.pdf)

[Figure C.5-4c Map C Special Status Plant Species Occurrences](3%20Figures/C.5-5c.pdf)

[Figure C.5-4d Map D Special Status Plant Species Occurrences](3%20Figures/C.5-4d.pdf)

[Figure C.5-5a Map A Special Status Wildlife Species Occurrences](3%20Figures/C.5-5a.pdf)

[Figure C.5-5b Map B Special Status Wildlife Species Occurrences](3%20Figures/C.5-5b.pdf)

[Figure C.5-5c Map C Special Status Wildlife Species Occurrences](3%20Figures/C.5-5c.pdf)

[Figure C.5-5d Map D Special Status Wildlife Species Occurrences](3%20Figures/C.5-5d.pdf)

[Figure C.7-1 Regional Geologic Map](3%20Figures/C.7-1%20Regional%20Geology.pdf)

[Figure C.7-2 Active Regional Faults and Historic Earthquakes](3%20Figures/C.7-2%20Regional%20Faults.pdf)

[Figure C.12-1 Ambient Noise Monitoring Locations](3%20Figures/FigC.12-1_Noise%20Locations.pdf)

[Figure C.13-1 Parks and Recreational Areas](3%20Figures/FigC.13-1_Parks.pdf)

[Figure C.13-2 Trail Locations](3%20Figures/FigC.13-2_Trails.pdf)

[Figure D-1 SCE Subtransmission Line Route Alternatives](3%20Figures/D-1_SCE%20RouteAlts.pdf)

[Figure D-2a KOP 10 Scott Road- Alternative 1 Existing View](3%20Figures/D-2a_KOP10%20Alt1_Existing.pdf)

[Figure D-2b KOP 10 Scott Road- Alternative 1 Visual Simulation](3%20Figures/D-2b_KOP10%20Alt1_Sim.pdf)

[Figure D-3 Additional Viewpoint A, Scott Road at Menifee Road, Existing View](3%20Figures/D-3_AddView_ScottRd_Existing.pdf)

[Figure D-4 Additional Viewpoint B, Mussa Lane, Existing View](3%20Figures/D-4_AddView_Mussa_Existing.pdf)

[Figure D-5 Partial Underground Alternative](3%20Figures/D-5_Partial%20Underground%20Alt.pdf)

[Figure D-6 Typical Subtransmission Duct Bank](3%20Figures/FigD-6_TypSubtransDuctBank.pdf)

[Figure D-7 Typical Subtransmission Vault](3%20Figures/FigD-7_TypSubtransVault.pdf)

[Figure D-8a KOP 11 Leon Road- Alternative 2, Existing View](3%20Figures/D-8a_KOP11%20LeonRd%20Alt2_Existing.pdf)

[Figure D-8b KOP 11 Leon Road- Alternative 2, Visual Simulation](3%20Figures/D-8b_KOP11%20LeonRd%20Alt2_Sim.pdf)