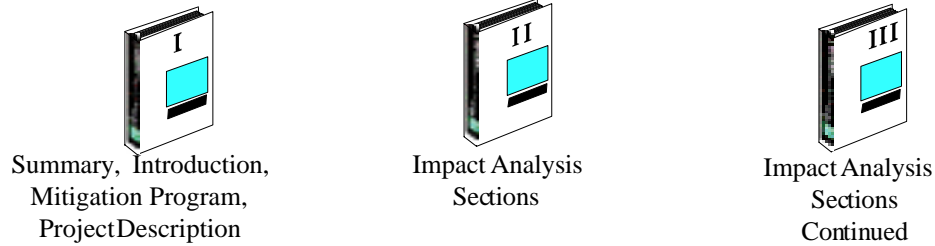


DOCUMENT STRUCTURE

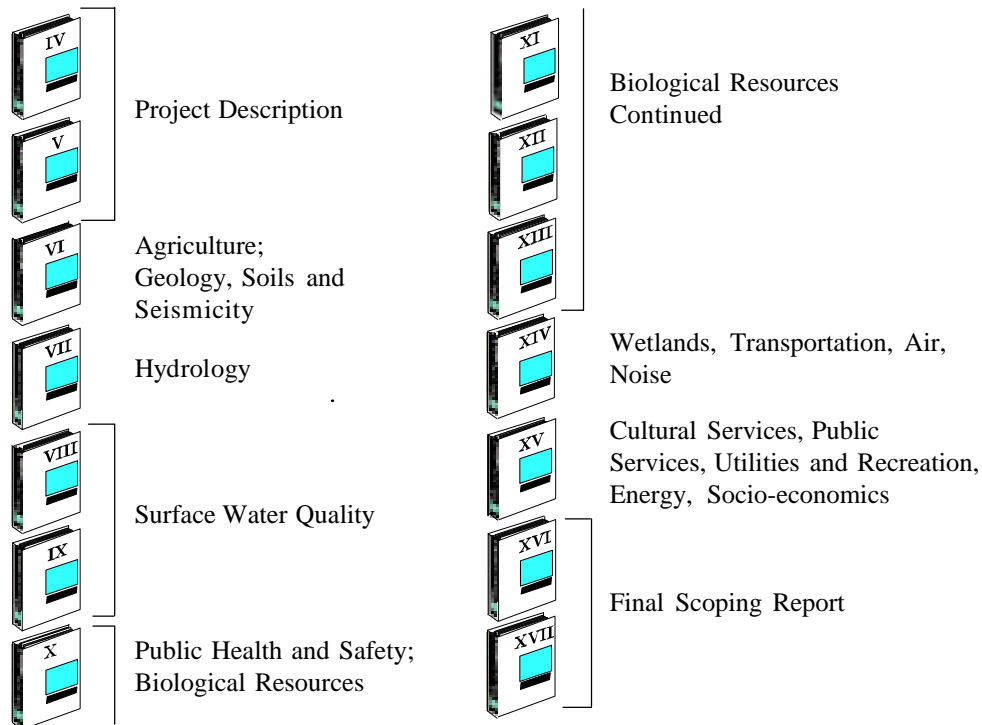
The Santa Rosa Subregional Long-Term Wastewater Project Environmental Impact Report/Environmental Impact Statement (EIR/EIS) was presented in seventeen volumes. The Final EIR is presented in five additional volumes, including replacement pages to be incorporated into the Draft EIR/EIS.

DRAFT EIR/EIS



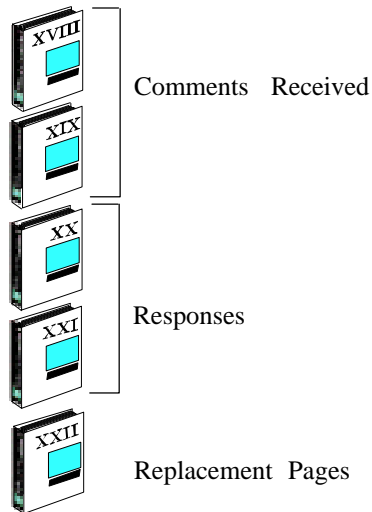
APPENDICES TO THE EIR/EIS

Volumes IV through XVII contain the appendices to the EIR/EIS. The graphic below displays the organization of the volumes and topic areas contained in each.



FINAL EIR

Volumes XVIII through XXII contain the Final EIR. The Final EIR includes comments received on the Draft EIR/EIS, Response to comments, and replacement pages. Replacement pages (Volume XXII) have been designed for insertion into the Draft EIR. Please note that the replacement pages are formatted in revision fashion meaning ~~strikeout~~ and underline format. Strikeouts indicate removed text and underlines indicate the addition of text.



READING THE EIR/EIS

The document is organized to allow review at three levels of detail, depending on the reader's interest. Chapter 1 (Volume I), Introduction and Summary, provides an overview of impacts. Volumes I, II, and III combined contain the complete EIR/EIS; Volumes IV through XVII contain the technical appendices which support the Draft EIR/EIS. The summary in Volume I is not intended to replace the complete EIR/EIS which provides a thorough evaluation of the environmental impacts.

Volume I includes the Introduction and Summary, Mitigation Program, and Project Description providing the reader with an overview of the major findings of the Draft EIR/EIS.

Volumes II and III include the environmental evaluation of the Project components and alternatives. The volumes also contain a discussion of the environmentally superior alternative, growth-inducing impacts, the significant and unavoidable impacts, and a glossary of terms.

Volumes IV through XVII contain the appendices to the EIR/EIS. The Appendices are available for use as supporting documentation for the EIR/EIS providing more extensive data on the settings and analysis.

USING THE TABLE OF CONTENTS

To assist the reader in locating information within the documents, a Table of Contents is in each volume. Tabs are used to assist the reader in locating chapters. Each chapter or appendix contains a more detailed Table of Contents to further direct the reader to the location of information. Due to the amount of information in Chapter 4 (Volumes II and III), Affected Environment and Environmental Consequences, a table of contents is provided for each of the 19 sections in this chapter.

USING THE CD ROM

In the CD ROM version of the Draft EIR/EIS, bookmarks, thumbnails, and a very powerful search capability accessed under the tools menu provide multiple methods of navigating the disk. The primary indexing document is called "BEGIN", and it contains the master table of contents. You may have up to 10 documents open at one time.

HOW TO COMMENT ON THE DRAFT EIR/EIS

A discussion on how to comment on the Draft EIR/EIS is provided in Chapter 1 (Volume I), Introduction and Summary.

ADDITIONAL ASSISTANCE

An introduction is provided at the beginning of each chapter or section of the Draft EIR/EIS contained in Volumes I, II, and III. The introduction provides information about the contents of the chapter or section.

TABLE OF CONTENTS

VOLUME I DRAFT EIR/EIS, CHAPTERS 1 THROUGH 3

Chapter 1	Introduction and Summary
Chapter 2	Mitigation and Monitoring Program
Chapter 3	Description of Existing System and Alternatives (Project Description)

VOLUME II DRAFT EIR/EIS, SECTIONS 4.0 THROUGH 4.10

Chapter 4	
Section 4.0	Introduction
Section 4.1	Land Use
Section 4.2	Agriculture
Section 4.3	Geology, Soils, and Seismicity
Section 4.4	Surface Water Hydrology
Section 4.5	Groundwater
Section 4.6	Surface Water Quality
Section 4.7	Public Health and Safety
Section 4.8	Terrestrial Biological Resources
Section 4.9	Aquatic Biological Resources
Section 4.10	Jurisdictional Wetlands Resources

VOLUME III DRAFT EIR/EIS, SECTIONS 4.11 THROUGH 4.19 AND CHAPTER 5 APPENDICES A - C

Section 4.11	Transportation
Section 4.12	Air Quality
Section 4.13	Noise
Section 4.14	Visual Resources
Section 4.15	Cultural Resources and Paleontology
Section 4.16	Public Services, Utilities, and Recreation
Section 4.17	Energy
Section 4.18	Socio-economics
Section 4.19	Inundation Due to Dam Failure
Chapter 5	NEPA/CEQA Required Sections
Glossary	
Master List of Tables and Figures	
Appendix A	Range of Discharge Evaluation
Appendix B	List of Preparers
Appendix C	List of individuals who have received the Scoping Report and list of individuals who have received notification of availability of the Draft EIR/EIS.

VOLUME IV APPENDICES D-1 THROUGH D-23

DESCRIPTION OF EXISTING SYSTEM AND ALTERNATIVES (PROJECT DESCRIPTION)

- D-1 Memorandum on Final Demographic Data to Be Used for the Santa Rosa Long-Term Wastewater EIR/EIS
- D-2 Memorandum on Comparison of ABAG Year 2010 Projections and General Plan Buildout Estimates
- D-3 Water Conservation Element
- D-4 Wastewater Flow Projections
- D-5 Permitting Report
- D-6 Documentation in Support of the Elimination of Alternatives
- D-7 Property Potentially Affected by Acquisition
- D-8 Water Balance Model - Summary and Results
- D-9 Analysis of Results from Daily and Monthly Water Balance Models
- D-10 Water Balance Contingency Plan
- D-11 Direct Discharge Water Balance
- D-12 Revised System Storage Curves
- D-13 Operations Plan - Alternative 4
- D-14 Two Rock Reservoir Engineering Technical Memo
- D-15 Reservoir Inflow Analysis
- D-16 Reservoir Spillway Hydrology Analysis
- D-17 Reservoir Stormwater Runoff Diversion Structures
- D-18 Geysers Recharge Water Balance and Operation Considerations
- D-19 Irrigation Management Guidelines for the West County and South County Alternatives
- D-20 Urban Irrigation Management Guidelines
- D-21 Baylands (Reyes Soils) Screening Study
- D-22 Urban Irrigation Component of the Alternative Projects
- D-23 KYPIPE Model Optimization for Agricultural Irrigation Systems

VOLUME V APPENDICES D-24 THROUGH D-32

DESCRIPTION OF EXISTING SYSTEM AND ALTERNATIVES (PROJECT DESCRIPTION), CONTINUED

- D-24 Pipeline Alignments
- D-25 Transmission Pipeline Routes to All Reservoir Sites
- D-26 Transmission Pipelines to Storage, Tunnel Length Optimization Analysis
- D-27 Sizing of New "S" Pump Station
- D-28 Transmission Line Intermediate Pump Stations
- D-29 Transport Pipeline Flowrate and Pumping Schedule Present Worth Analysis
- D-30 Alternative Projects Construction Cost Estimate
- D-31 Cumulative Projects List
- D-32 Alternative Projects Facilities Plan

VOLUME VI APPENDICES E AND F

LAND USE

No supporting documents produced.

AGRICULTURE

- E-1 Irrigation Suitability Land Classification - South County Area
- E-2 Irrigation Suitability Land Classification - West County Area
- E-3 Cropping Scenarios for the West County and South County Reclamation Alternatives
- E-4 Agricultural Impact Analysis Methodology
- E-5 Irrigation Water Quality and Salt Management Leaching Requirements, South County and West County Reclamation Alternatives
- E-6 Trace Element Loading Analysis for the South and West County Alternatives
- E-7 Evaluation of Soil Erosion Impacts for the West and South County Reclamation Alternatives

GEOLOGY, SOILS, AND SEISMICITY

- F-1 Geotechnical Assessment of Alternative Reservoir Sites and Pipeline Routes Volume I
- F-2 Induced Seismicity Study- Geysers Recharge Alternative

VOLUME VII APPENDICES G AND H

SURFACE WATER HYDROLOGY

- G-1 Potential Flood Impacts in the Laguna de Santa Rosa Floodplain and Russian River Floodplain
- G-2 Potential Streambank Erosion- Laguna de Santa Rosa and Russian River

GROUNDWATER

- H-1 Hydrogeology of Storage/Reuse Areas and Evaluation of Potential Impacts to Groundwater
- H-2 Reclaimed Water Quality
- H-3 Reclaimed Water Quality Update
- H-4 Well Installation and Groundwater Monitoring Results
- H-5 Irrigation Nitrogen Loading to Groundwater

VOLUME VIII APPENDICES I-1 THROUGH I-10

SURFACE WATER QUALITY

- I-1 Estimation of Nitrogen, Salt and Herbicide/Pesticide Concentrations in Surface Water
- I-2 Evaluation of Metals in Irrigation - Affected Percolate
- I-3 Environmental Conditions in West County Waterways
- I-4 Laguna de Santa Rosa Water Quality Monitoring Results
- I-5 Irrigation/Storage Streams Water Quality Monitoring Results
- I-6 Russian River Water Quality Monitoring Results
- I-7 Russian River Algae and Macrophytes Assessment Technical Report
- I-8 Russian River Water Quality Model
- I-9 Treatment Wetlands Evaluation
- I-10 Baseline Hydrology and Irrigation Drainage Evaluation for West and South County Reclamation Alternatives

VOLUME IX APPENDICES I-11 THROUGH I-18

SURFACE WATER QUALITY, CONTINUED

- I-11 Water Quality and Flow Model for Irrigation/ Storage Area Streams
- I-12 Development of Evaluation Criteria for Potential Water Quality Impacts
- I-13 Sediment Quality Characterization and Impacts Assessment
- I-14 Hydrologic/Water Quality Evaluation of Irrigation of Baylands (Reyes Soils) with Reclaimed Water
- I-15 Stream Crossing Assessment
- I-16 Water Quality Impact Analysis Report Volume I - Text
- I-17 Water Quality Impact Analysis Report Volume II - Figures
- I-18 Hydrologic and Water Quality Impacts from Urban Irrigation Component

VOLUME X APPENDICES J THROUGH K-1

PUBLIC HEALTH AND SAFETY

- J-1 Dam Break Inundation Analysis
- J-2 Human Health Effects and Wildlife Effects of Environmental Estrogens
- J-3 Human Health Risks from Chemical and Biological Components of Reclaimed Water

TERRESTRIAL BIOLOGICAL RESOURCES

- K-1 Biological Resources, Volume I

VOLUME XI APPENDICES K-2 THROUGH K-4

TERRESTRIAL BIOLOGICAL RESOURCES, CONTINUED

- K-2 Biological Resources, Volume II
- K-3 Biological Resources, Volume III
- K-4 Ecological Risk Assessment

VOLUME XII APPENDIX K-5

TERRESTRIAL BIOLOGICAL RESOURCES, CONTINUED

- K-5 Biological Resources Volume IV (A-E) - Maps

VOLUME XIII APPENDIX L

AQUATIC BIOLOGICAL RESOURCES

- L-1 Anadromous Fish Migration Study Program, 1991-1994
- L-2 Anadromous Fish Migration Study Program, 1991-1995
- L-3 Potential Listing of Coho Salmon and Steelhead Trout
- L-4 Aquatic Habitat Survey Results
- L-5 Aquatic Life Survey Results
- L-6 Evaluation of Bioaccumulation in Organisms Exposed to Reclaimed Water from the Santa Rosa Subregional System
- L-7 Aquatic Biological Resources Impacts Analysis Report

VOLUME XIV APPENDICES M AND O

JURISDICTIONAL WETLANDS RESOURCES

- M-1 Planning Level Wetlands Determination for Agricultural Irrigation Areas
- M-2 Wetland Determination and Mitigation for Pipeline Alignments Volume I
- M-3 Planning Level Wetland Determination Report for Reservoir Sites

TRANSPORTATION

- N-1 Construction Related Impacts on Transportation Corridors Memorandum
- N-2 Response to Comments Construction Related Impacts on Transportation Corridors Memorandum
- N-3 Construction Impacts Memorandum 8/6/95
- N-4 Construction Impacts Memorandum 8/7/95
- N-5 Dam and Reservoir Construction Operations Memorandum
- N-6 Construction Related Impacts on Transportation Corridors and Air Quality Memorandum

- N-7 Time to Install Pipelines Memorandum
- N-8 Response to Questions Regarding Construction Activities for Pipelines
- N-9 Truck Trips to Import Materials for Dam Construction

AIR QUALITY

- O-1 Assumptions, Emission Factors, and General Types of Emissions for Construction Scenarios
- O-2 Bay Area Air Quality Management District Toxics Screening Levels
- O-3 Daily Construction Emissions
- O-4 Geothermal Power Plant Hydrogen Sulfide Emission Inventory
- O-5 Laguna Plant Emissions
- O-6 Laguna Facility Air Emissions Modeling results for the Long-Term Project EIR
- O-7 ISCST3 Modeling Results for Laguna POTW Aeration Basins
- O-8 Annual Particulate Construction Emissions

NOISE

No supporting documents produced .

VISUAL RESOURCES

No supporting documents produced .

VOLUME XV APPENDICES P THROUGH T

CULTURAL RESOURCES AND PALEONTOLOGY

- P-1 Cultural Resources Study

PUBLIC SERVICES, UTILITIES, AND RECREATION

- Q-1 Service Letters

ENERGY

- R-1 Energy Demand for Alternative Projects

SOCIO-ECONOMICS

- S-1 Acquisition Options Report
- S-2 Land Value Estimates
- S-3 Supporting Tables for Socio-economic Analysis

NEPA/CEQA REQUIRED SECTIONS

- T-1 Existing Vacant Parcels and Potential New Parcels which May Receive New Potable Water Supply as a Result of Mitigation Measure 2.3.12

VOLUME XVI APPENDICES U-1 AND U-2 (NOT INCLUDED IN CD ROM)

FINAL SCOPING REPORT

- U-1 Final Scoping Report Volume I
- U-2 Final Scoping Report Volume II

VOLUME XVII APPENDIX U-3 (NOT INCLUDED IN CD ROM)

FINAL SCOPING REPORT

- U-3 Final Scoping Report Volume III

FINAL EIR

VOLUME XVIII APPENDIX V

COMMENTS ON THE DRAFT EIR/EIS

- V Comment Letters: 100 series (1 through 85)

VOLUME XIX APPENDIX V, CONTINUED

COMMENTS ON THE DRAFT EIR/EIS, CONTINUED

- V Comment Letters: 100 series (86 through 132)
- Public Hearing Comments: 200 series (200 through 268)
- Comment Letters Received after Close of Comment Period: 300 series (300 through 305)

**VOLUME XX RESPONSE TO COMMENTS ON THE DRAFT
EIR/EIS, CHAPTER 6**

Chapter 6	Response to Comments
Section 6.1	Introduction
Section 6.2	Master Responses
Section 6.3	Comment Letters: 100 series (1 through 85)

**VOLUME XXI RESPONSE TO COMMENTS ON THE DRAFT
EIR/EIS, CHAPTER 6, CONTINUED**

CHAPTER 6, CONTINUED

Section 6.3	Comment Letters: 100 series (86 through 132) Public Hearing Comments: 200 series (200 through 268) Comment Letters Received after Close of Comment Period: 300 series (300 through 305)
Section 6.4	Related Documents
Section 6.5	Revisions by the EIR/EIS Authors

**VOLUME XXII REPLACEMENT PAGES FOR THE DRAFT
EIR/EIS, CHAPTER 6 CONTINUED**

Section 6.6	Replacement Pages
Section 6.7	Summary Description of Appendices