

TABLE OF CONTENTS

<u>Section</u>	<u>Page No.</u>
EXECUTIVE SUMMARY	ES-1
ES.1 Document Purpose	ES-1
ES.2 Project Location	ES-1
ES.3 Project Description.....	ES-2
ES.3.1 Project Background.....	ES-2
ES.3.2 Project Summary.....	ES-2
ES.3.3 Proposed Project Objectives	ES-3
ES.3.4 Required Permits and/or Approval	ES-3
ES.4 Summary of Environmental Impacts and Mitigation Measures.....	ES-4
ES.5 Areas of Controversy/Issues to Be Resolved	ES-29
ES.6 Summary of Project Alternatives	ES-29
CHAPTER 1 INTRODUCTION.....	1-1
1.1 Project Location and Region of Influence	1-1
1.1.1 Lower Colorado River	1-1
1.1.2 IID Water Service Area and All American Canal	1-2
1.2 Background.....	1-3
1.2.1 Colorado River.....	1-3
1.2.2 Quantification Settlement Agreement.....	1-3
1.3 CEQA/NEPA Documentation Related to the Project.....	1-4
1.3.1 Water Conservation and Transfer Project and Habitat Conservation Plan EIR	1-4
1.3.2 Program EIR for the Implementation of the Colorado River Quantification Settlement Agreement.....	1-4
1.3.3 AAC Surgace Water Seepage Water Recovery Project Draft MND	1-5
1.4 Other Proposed Projects Related to Resources Affected by the Proposed Project...	1-6
1.5 Project Approvals.....	1-6
1.5.1 Federal.....	1-7
1.5.2 State.....	1-7
1.5.3 Local	1-8
1.6 Consultation and Coordination	1-8
1.6.1 Agency Coordination and Consultation.....	1-8
1.6.2 Public Scoping	1-9
1.7 Project Summary.....	1-10
1.8 Draft EIR Organization and Contents.....	1-10

CHAPTER 2 ENVIRONMENTAL SETTING..... 2-1

2.1 Location 2-1

2.2 Existing Site Conditions 2-2

 2.2.1 Vegetation and Land Covers..... 2-2

 2.2.2 Hydrological Setting 2-2

2.3 Surrounding Land Uses..... 2-3

2.4 General Plan Designation and Zoning 2-4

CHAPTER 3 PROJECT DESCRIPTION..... 3-1

3.1 Introduction..... 3-1

3.2 Project Purpose and Objectives 3-1

3.3 Proposed Project 3-3

 3.3.1 Location 3-3

 3.3.2 Summary 3-4

 3.3.3 Project Components 3-6

 3.3.4 Construction..... 3-9

 3.3.5 Operation..... 3-10

3.4 Alternatives 3-11

 3.4.1 Selection of Project Alternatives 3-11

 3.4.2 Description of Alternatives 3-12

CHAPTER 4 ENVIRONMENTAL IMPACT CONSIDERATIONS..... 4-1

4.1 Aesthetics 4.1-1

 4.1.1 Existing Conditions..... 4.1-1

 4.1.2 Relevant Plans, Policies, and Ordinances 4.1-2

 4.1.3 Thresholds of Significance 4.1-4

 4.1.4 Impacts Analysis..... 4.1-5

 4.1.5 Mitigation Measures 4.1-8

 4.1.6 Level of Significance After Mitigation..... 4.1-8

4.2 Air Quality 4.2-1

 4.2.1 Existing Conditions..... 4.2-1

 4.2.2 Pollutants and Effects 4.2-3

 4.2.3 Relevant Plans, Policies, and Ordinances 4.2-8

 4.2.4 Thresholds of Significance 4.2-13

 4.2.5 Impacts Analysis..... 4.2-14

 4.2.6 Mitigation Measures 4.2-24

 4.2.7 Level of Significance After Mitigation..... 4.2-26

4.3 Biological Resources 4.3-1

 4.3.1 Existing Conditions..... 4.3-1

 4.3.2 Relevant Plans, Policies, and Ordinances 4.3-17

4.3.3	Thresholds of Significance	4.3-23
4.3.4	Impacts Analysis	4.3-24
4.3.5	Mitigation Measures	4.3-43
4.3.6	Level of Significance After Mitigation.....	4.3-52
4.4	Cultural Resources	4.4-1
4.4.1	Existing Conditions.....	4.4-1
4.4.2	Relevant Plans, Policies, and Ordinances	4.4-9
4.4.3	Thresholds of Significance	4.4-21
4.4.4	Impacts Analysis.....	4.4-21
4.4.5	Mitigation Measures	4.4-29
4.4.6	Level of Significance After Mitigation.....	4.4-35
4.5	Hazards and Hazardous Materials	4.5-1
4.5.1	Existing Conditions.....	4.5-1
4.5.2	Relevant Plans, Policies, and Ordinances	4.5-2
4.5.3	Issues of Concern with No Applicable Criteria	4.5-5
4.5.4	Thresholds of Significance	4.5-5
4.5.5	Impacts Analysis.....	4.5-6
4.5.6	Mitigation Measures	4.5-12
4.5.7	Level of Significance After Mitigation.....	4.5-13
4.6	Hydrology and Water Quality.....	4.6-1
4.6.1	Existing Conditions.....	4.6-1
4.6.2	Relevant Plans, Policies, and Ordinances	4.6-1
4.6.3	Thresholds of Significance	4.6-4
4.6.4	Impacts Analysis.....	4.6-5
4.6.5	Mitigation Measures	4.6-11
4.6.6	Level of Significance After Mitigation.....	4.6-11
4.7	Land Use and Planning	4.7-1
4.7.1	Existing Conditions.....	4.7-1
4.7.2	Relevant Plans, Policies, and Ordinances	4.7-1
4.7.3	Methodology	4.7-4
4.7.4	Thresholds of Significance	4.7-5
4.7.5	Impacts Analysis.....	4.7-5
4.7.6	Mitigation Measures	4.7-7
4.7.7	Level of Significance After Mitigation.....	4.7-8
4.8	Noise	4.8-1
4.8.1	Existing Conditions.....	4.8-1
4.8.2	Concepts and Terminology	4.8-4
4.8.3	Relevant Plans, Policies, and Ordinances	4.8-7
4.8.4	Thresholds of Significance	4.8-11

4.8.5 Impacts Analysis 4.8-12

4.8.6 Mitigation Measures 4.8-17

4.8.7 Level of Significance After Mitigation..... 4.8-18

CHAPTER 5 EFFECTS FOUND NOT TO BE SIGNIFICANT 5-1

5.1 Agricultural and Forestry Resources 5-1

5.2 Energy 5-1

5.3 Geology and Soils 5-3

5.4 Greenhouse Gas Emissions 5-4

5.4.1 Construction Emissions 5-4

5.4.2 Operational Emissions 5-8

5.5 Mineral Resources 5-8

5.6 Population and Housing 5-9

5.7 Public Services 5-9

5.8 Recreation 5-9

5.9 Transportation and Traffic 5-10

5.10 Utilities and Service Systems..... 5-10

CHAPTER 6 OTHER CEQA CONSIDERATIONS 6-1

6.1 Overview 6-1

6.2 Significant and Unavoidable Impacts 6-1

6.3 Growth Inducement 6-1

6.4 Cumulative 6-2

6.4.1 Cumulative Projects 6-2

6.4.2 Cumulative Impacts 6-4

6.4.3 Conclusion 6-7

6.5 Mandatory Findings of Significance..... 6-7

CHAPTER 7 ALTERNATIVES..... 7-1

7.1 Rationale for Alternatives Selection 7-1

7.2 Project Objectives 7-1

7.3 Selection of Alternatives 7-2

7.4 Alternatives Considered But Rejected from Further Study 7-2

7.5 Alternatives Identified and Analyzed 7-4

7.5.1 No Project 7-4

7.5.2 Reduced Size Reservoir 7-7

7.5.3 Alternative Intake Route 7-12

7.6 Environmentally Superior Alternative 7-17

7.7 Comparison of Alternatives 7-17

CHAPTER 8 REFERENCES 8-1

CHAPTER 9 LIST OF PREPARERS 9-1
 9.1 EIR Preparers 9-1
 9.1.1 Imperial Irrigation District 9-1
 9.1.2 Dudek 9-1

APPENDICES

- A Environmental Assessment
- B Air Quality and Greenhouse Gas Emissions Memorandum
- C Biological Technical Report
- D Cultural and Paleontological Resources Technical Report
- E Field Noise Measurement Data

FIGURES

1-1 Project Location 1-5
 1-2 Vicinity Map 1-15
 1-3 Project Description..... 1-17
 1-4 Multiple Reservoir Sites 1-19
 1-5 Reduced Size Reservoir Alternative 1-21
 1-6 Alternative Intake Route 1-23
 3-1 Project Description..... 3-13
 3-2 Reduced Size Reservoir Alternative 3-15
 3-3 Alternative Intake Route Alternative 3-17
 4-2a Biological Resources-Index Map..... 4.2-53
 4-2b Biological Resources-Map 1 4.2-55
 4-2c Biological Resources-Map 2 4.2-57
 4-2d Biological Resources-Map 3 4.2-59
 4-2e Biological Resources-Map 4 4.2-61
 4-2f Biological Resources-Map 5 4.2-63
 4-2g Biological Resources-Map 6 4.2-65
 4.3-1a Biological Resources—Index Map 4.3-53
 4.3-1b Biological Resources—Map 1 4.3-55
 4.3-1c Biological Resources—Map 2 4.3-57
 4.3-1d Biological Resources—Map 3 4.3-59
 4.3-1e Biological Resources—Map 4 4.3-61
 4.3-1f Biological Resources—Map 5 4.3-63
 4.3-1g Biological Resources—Map 6 4.3-65
 5-1 Soils 5-11
 6-1 Cumulative Projects 6-9

TABLES

ES-1 Project Approvals.....ES-4

ES-2 Summary of Environmental Impacts of the Proposed Project.....ES-5

ES-3 Alternatives Matrix – Impacts ComparisonES-29

3-1 Project Approvals..... 3-5

3-2 Phasing and Equipment..... 3-6

4.1-1 ICAPCD Air Quality Significance Thresholds 4.1-11

4.1-2 Estimated Maximum Daily Construction Criteria Air Pollutant Emissions 4.1-17

4.1-3 Estimated Annual Construction Criteria Air Pollutant Emissions..... 4.1-18

4.2-1 ICAPCD Air Quality Significance Thresholds 4.2-11

4.2-2 Estimated Maximum Daily Construction Criteria Air Pollutant Emissions 4.2-15

4.2-3 Estimated Annual Construction Criteria Air Pollutant Emissions..... 4.2-18

4.3-1 Vegetation Communities and Land Covers 4.3-1

4.3-2 Jurisdictional Waters of the State in the Proposed Project Study Area 4.3-7

4.3-3 Data Station Summary 4.3-7

4.3-4 Special-Status Plants with Potential to Occur in the Proposed Project
Study Area 4.3-8

4.3-5 Special-Status Wildlife Species Potential to Occur in the Proposed
Project Study Area 4.3-10

4.3-6 Imperial County General Plan Goals and Objectives 4.3-40

4.3-7 Imperial County General Plan Consistency Analysis 4.3-40

4.4-1 Resources within the Area of Potential Effect 4.4-6

4.5-1 Measured Noise Levels 4.5-2

4.5-2 Local Interstate and State Highway Traffic and Noise Data –
Existing Conditions..... 4.5-3

4.5-3 Typical Sound Levels in the Environment and Industry 4.5-5

4.5-4 Property Line Noise Limits..... 4.5-10

4.5-5 Construction Noise Model Results Summary..... 4.5-13

4.8-1 Measured Noise Levels 4.8-2

4.8-2 Local Interstate and State Highway Traffic and Noise Data – Existing Conditions 4.8-3

4.8-3 Typical Sound Levels in the Environment and Industry 4.8-5

4.8-4 Property Line Noise Limits 4.8-10

4.8-5 Construction Noise Model Results Summary 4.8-13

5-1 Estimated Annual Construction GHG Emissions 5-5

6-1 Cumulative Projects List..... 6-3

7-1 Summary of Impacts for Each Alternative 7-18