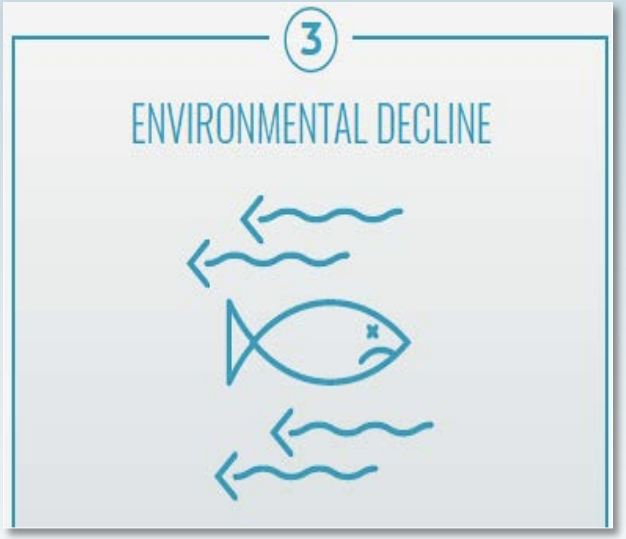
BAY DELTA CONSERVATION PLAN / CALIFORNIA WATER FIX

BAY DELTA CONSERVATION PLAN/CALIFORNIA WATER FIX
PARTIALLY RECIRCULATED DRAFT ENVIRONMENTAL IMPACT REPORT/SUPPLEMENTAL DRAFT ENVIRONMENTAL IMPACT STATEMENT

Project Update

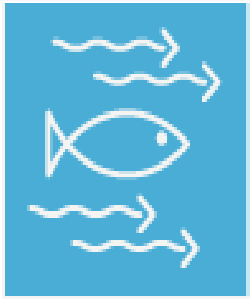
2015

Protecting California's Water Supplies

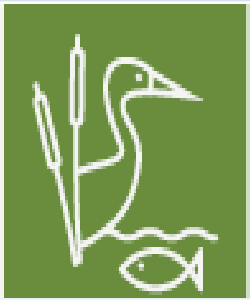


Meeting the Co-Equal Goals

Protect our state's water supplies from climate change through water system upgrades



Improve river flows for threatened fish species



Ecosystem restoration and protection

Substantive Changes Since 2013

Three new sub-alternatives:

- Alternative 4A (California WaterFix) new preferred alternative
- Alternative 2D
- Alternative 5A

- Different implementation strategy
- Construction and operation of new north Delta intakes and on habitat restoration commensurate with the footprint of new facilities

- Design modifications to Alternatives 4, 2D, 4A, and 5A

- Updated resource analyses

Alternatives 2D and 5A

Alternative 2D

- Modified pipeline/tunnel alignment – 5 intakes (15,000 cfs)
- Operations Scenario B

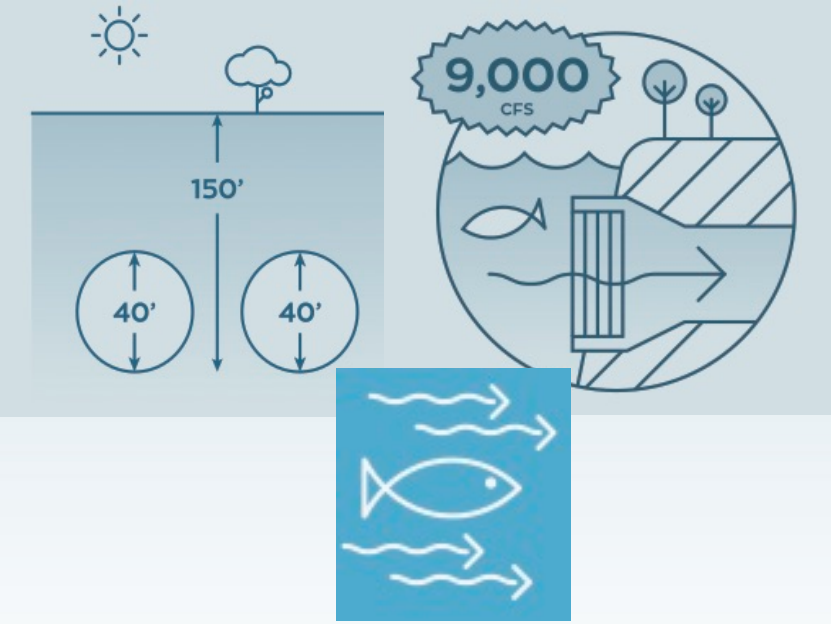
Alternative 5A

- Modified pipeline/tunnel alignment – 1 intake (3,000 cfs)
- Operations Scenario C

- Environmental commitments: portions of BDCP CM's as necessary to offset project impacts
- ESA Section 7/CESA 2081(b)

CEQA/NEPA Preferred Alternative 4A

- Modified pipeline/tunnel alignment – three intakes
- Operations Scenario H3-H4
- Environmental commitments: portions of BDCP conservation measures as necessary to offset project impacts
- ESA Section 7/CESA 2081(b)



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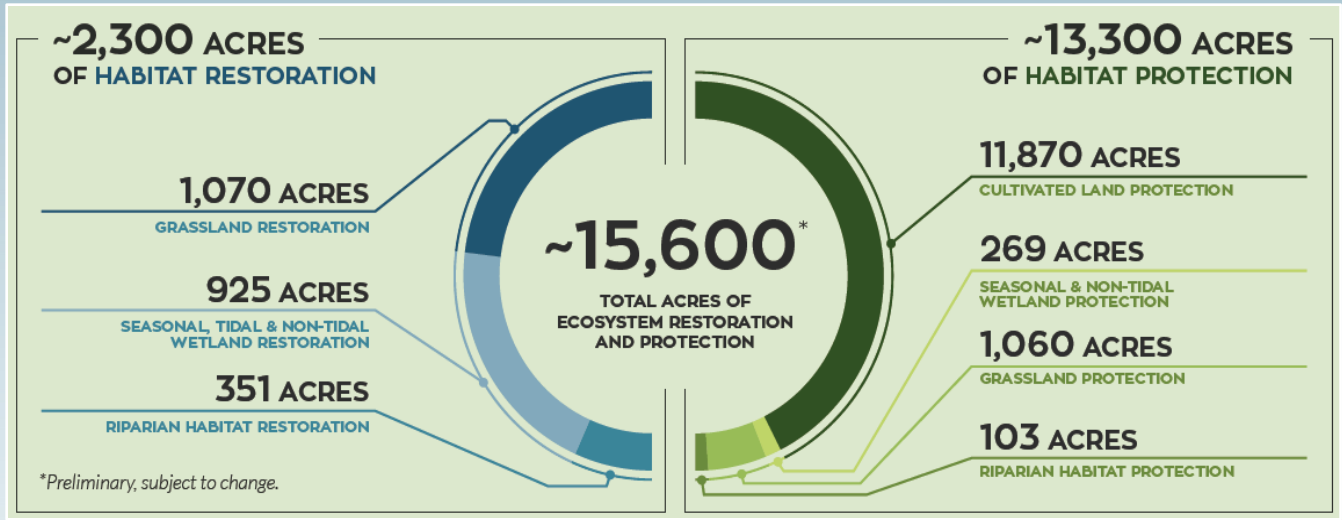
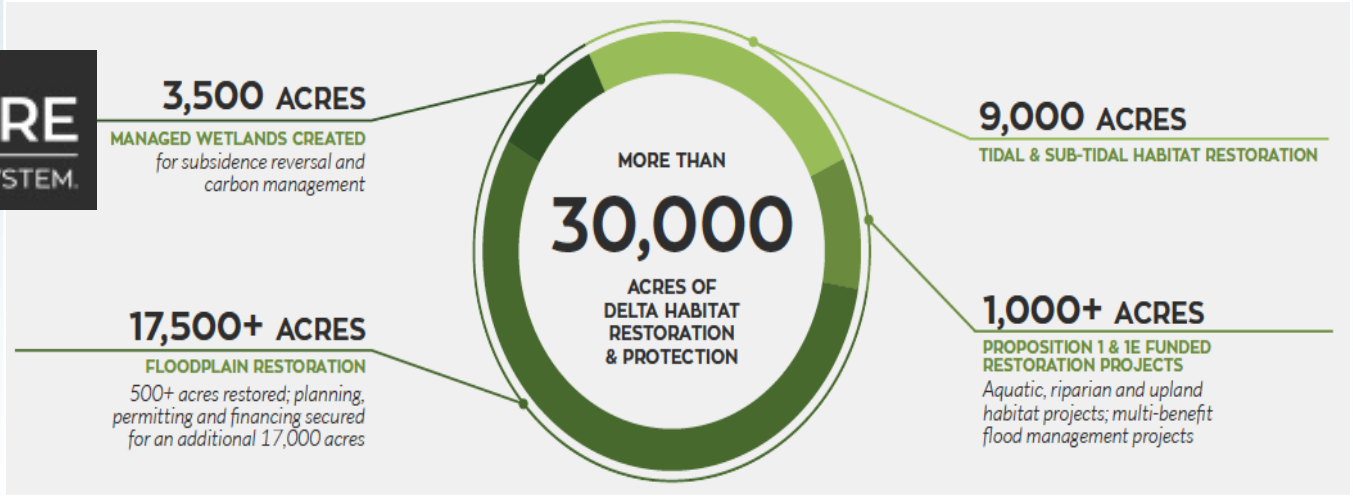


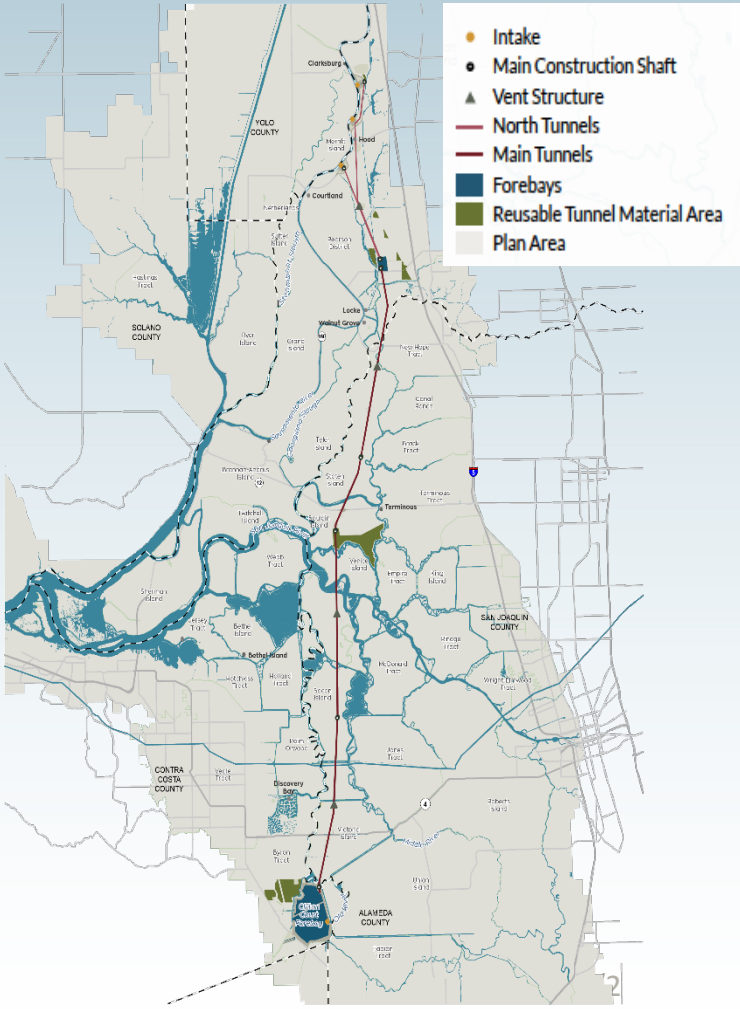
Environmental Mitigation

CALIFORNIA ECO RESTORE
A STRONGER DELTA ECOSYSTEM.



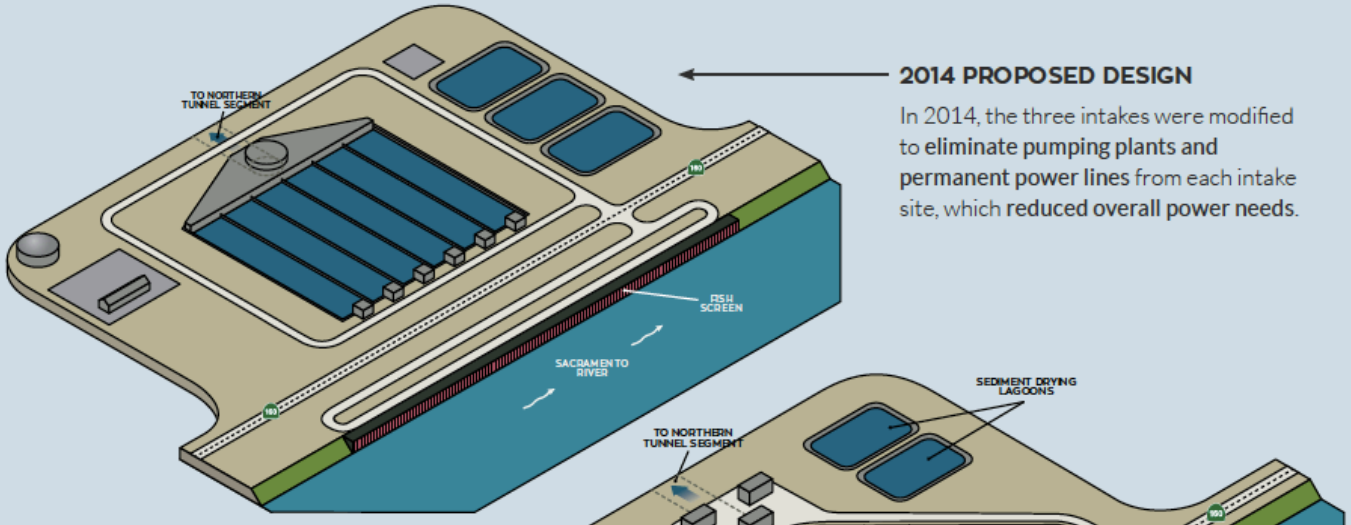
Proposed Refined Tunnel Option and Intake Design

- Environmental Benefits:
  - Reduce features at northern intakes
  - Reduce visual impacts near Hood
  - Remove permanent transmission lines near Stone Lakes National Wildlife Refuge
  - Reduce impacts and overall construction on Staten Island
  - Eliminate large access pads at vent structures
  - Eliminate environmental impacts on Italian Slough
- Operational Benefits:
  - Gravity-fed operation – improves tunnel operation, reduces power requirements and improves long-term reliability
  - Combined pumping facility on existing state-owned property at Clifton Court – reduces environmental and construction impacts



Project Refinements	Administrative Draft EIR / EIS	2013 Project Refinements	2014 Project Refinements
Water Facility Footprint	± 3,654 acres	± 1,851 acres	± 1,810 acres
Intermediate Forebay Size (Surface Acreage)	± 750 acres	± 40 acres	± 28 acres
Private Property Impacts - Permanent and Temporary	± 5,965 acres	± 5,557 acres	± 4,288 acres
Public Lands Utilized	± 240 acres	± 657 acres	± 733 acres
Number of Tunnel Reaches	6	5	5
Number of Launch and Retrieval Shaft Locations	7 main tunnel shafts	5 main tunnel shafts	5 main tunnel shafts
Agricultural Impacts	± 6,105 acres	± 6,033 acres	± 4,890 acres

Intake Engineering Refinements



2014 PROPOSED DESIGN

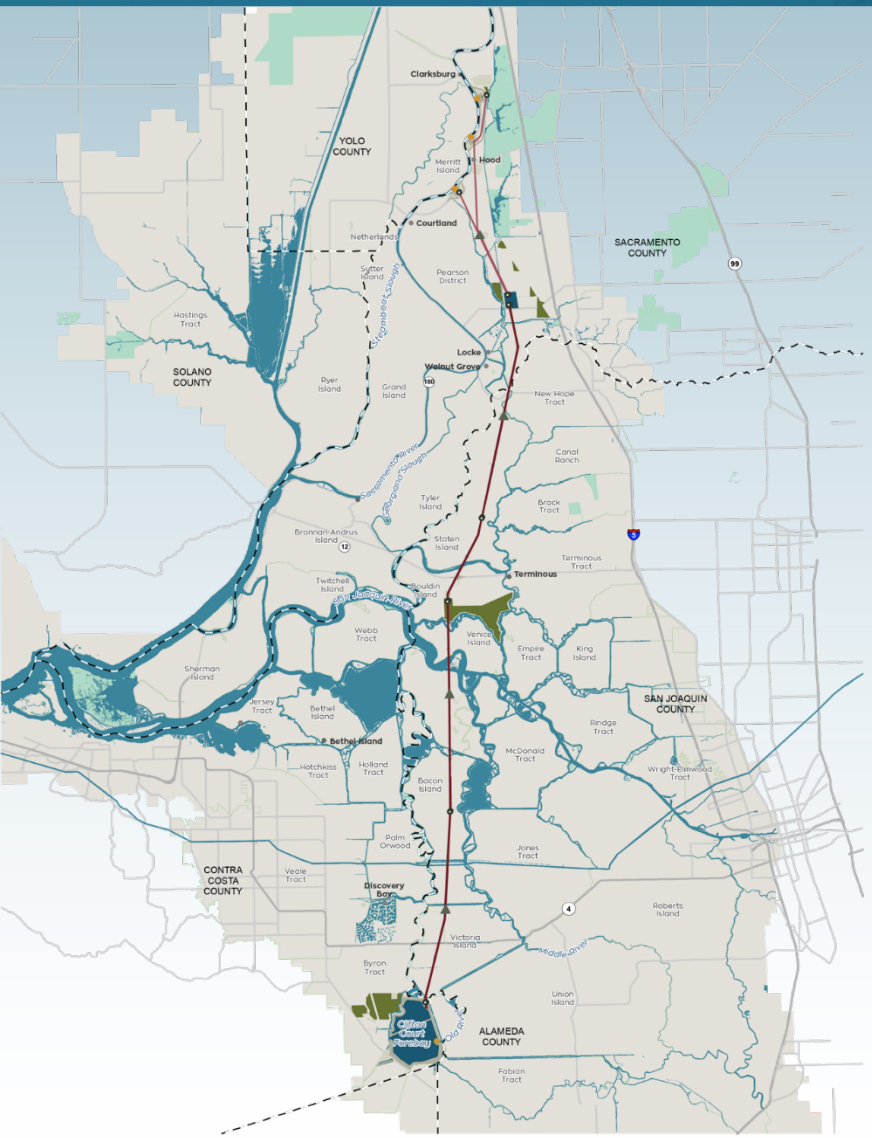
In 2014, the three intakes were modified to **eliminate pumping plants and permanent power lines** from each intake site, which **reduced overall power needs.**

2015 PROPOSED DESIGN

The three intakes have been further refined to convert previously-proposed concrete sedimentation basins into two earthen bays. This change **eliminates the need to drive hundreds of piles (concrete pillars)** into the ground, **reduces equipment noise and truck trips**, and significantly **reduces the volume of concrete** needed to build the intakes. This modification is expected to **reduce the number of piles at each intake site by about 75 percent.**

Substantive Changes Since the 2013 BDCP Draft EIR/EIS

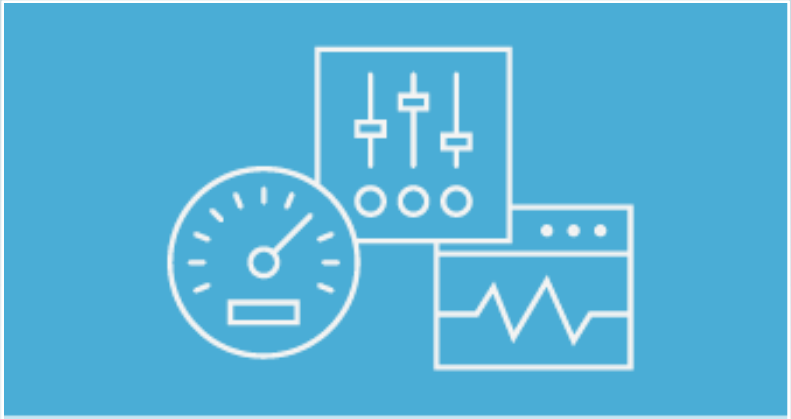
- **Updated environmental analysis includes:**
  - Fish and Aquatic
  - Water Quality
  - Effects Downstream of the Delta
  - Air Quality, Health Risk Assessment, Traffic, Noise
  - Geotechnical Investigations
  - Inclusion of Additional NEPA Determinations



Sacramento-San Joaquin Delta /Project Area

Adaptive Management

- Organization structure
- Implementation



An Adaptive Management and Monitoring Program will guide real-time operations of the system.

Drought & Climate Change

- Climate Change/Sea Level Rise Considerations
- Water Flows and Upstream Releases

Project Uncertainties

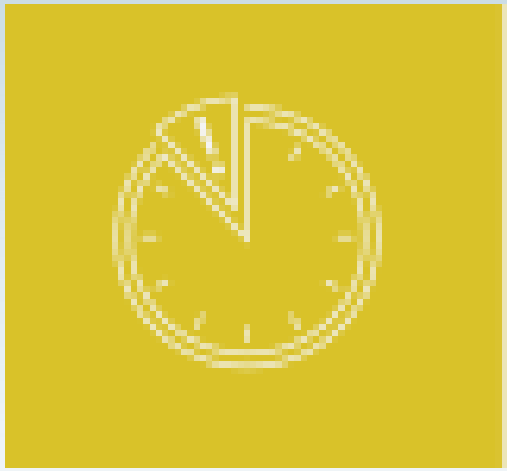
- Addressing uncertainties
- Risk Analysis

Levee Analysis

- Risk of levee failure
- Coordinated efforts

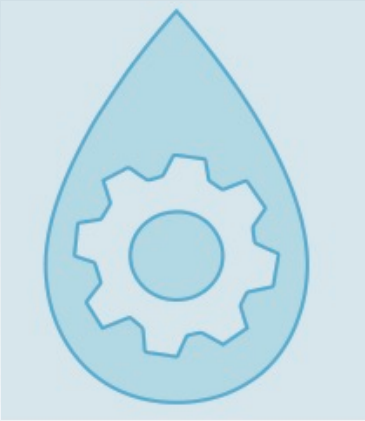
Comment Period

- July 10th – October 30th
- Public Meetings
- Document Availability



Next Steps

- Final EIR/EIS
- Permitting



Discussion

BAY DELTA CONSERVATION PLAN/ CALIFORNIA WATER FIX

PARTIALLY RECIRCULATED DRAFT ENVIRONMENTAL IMPACT REPORT/SUPPLEMENTAL DRAFT ENVIRONMENTAL IMPACT STATEMENT **(RDEIR/SDEIS)**

DOCUMENT REVIEW ROAD MAP

This road map is intended to guide the reviewer in the review of the RDEIR/SDEIS

2013 Public Draft EIR/EIS

Chapter

- ES Executive Summary and Table of Contents
- 1 Introduction
- 2 Project Objectives and Purpose and Need
- 3 Description of Alternatives
- 4 Approach to Environmental Analysis
- 5 Water Supply
- 6 Surface Water
- 7 Groundwater
- 8 Water Quality
- 9 Geology and Seismicity
- 10 Soils
- 11 Fish and Aquatic Resources
- 12 Terrestrial Biological Resources
- 13 Land Use
- 14 Agricultural Resources
- 15 Recreation
- 16 Socioeconomics
- 17 Surface Water
- 18 Aesthetics and Visual Resources
- 19 Transportation
- 20 Public Services and Utilities
- 21 Energy
- 22 Air Quality and Greenhouse Gases
- 23 Noise
- 24 Hazards and Hazardous Materials
- 25 Public Health
- 26 Mineral Resources
- 27 Paleontological Resources
- 28 Environmental Justice
- 29 Climate Change
- 30 Growth Inducement
- 31 Other CEQA/NEPA Required Sections
- 32 Public Involvement, Consultation, and Coordination
- 33 List of Preparers
- 34 References
- 35 Glossary
- Index Index

IMPACTS ARE DISCUSSED BY RESOURCE AREA

2015 RDEIR/SDEIS

Section

- ES Executive Summary and Table of Contents
- 1 Introduction
- 2 Substantive Public Draft EIR/EIS Revisions
- 3 Conveyance Facility Modifications to Alternative 4
- 4 New Alternatives: Alternatives 4A, 2D, and 5A

  Section 4 of the RDEIR/SDEIS contains the analysis of the new alternatives, including the new preferred Alternative, Alternative 4A. These sections discuss the potential impacts of the new alternatives on all of the resources evaluated in the Public Draft EIR/EIS (Chapters 4-30) as well as identification of mitigation and impact conclusions.

  - 4.1 Introduction to New Alternatives
  - 4.2 Impacts of No Action Early Long-Term
    4.2.1 – 4.2.29 Includes analysis of the NAA on all of the resources areas shown in the Public Draft EIR/EIS on the left.
  - 4.3 Impacts of Alternative 4A
    4.3.1-4.3.26 Includes analysis of Alternative 4A on all of the resources areas shown in the Public Draft EIR/EIS on the left.
  - 4.4 Impacts of Alternative 2D
    4.4.1-4.4.26 Includes analysis of Alternative 2D on all of the resources areas shown in the Public Draft EIR/EIS on the left.
  - 4.5 Impacts of Alternative 5A
    4.5.1-4.5.26 Includes analysis of Alternative 5A on all of the resources areas shown in the Public Draft EIR/EIS on the left.

  IMPACTS ARE DISCUSSED BY ALTERNATIVE
- 5 Revisions to Cumulative Impact Analyses
- 6 List of Preparers

Appendix A
Revisions to the Public Draft EIR/EIS

2015 RDEIR/SDEIS: Appendix A Revisions to the Public Draft EIR/EIS

Appendix A, *Revisions to the Public Draft EIR/EIS*, includes modified excerpts of text that originally appeared in the Public Draft EIR/EIS, including associated appendices, with underlining showing new language and strikeout showing eliminated text. These underline/strikeout revisions are referenced in the main text of the RDEIR/SDEIS.

Chapter

- 1 Introduction
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IMPACTS ARE DISCUSSED BY RESOURCE AREA

Legend

Chapter 3 describes the alternatives analyzed in Public Draft EIR/EIS. Section 4.1 describes the Alternatives analyzed in the RDEIR/SDEIS.

Sections 4.2 - 4.5 of the RDEIR/SDEIS evaluate the impacts of the new alternatives on environmental resources (all of those listed in Chapter 5-30).

Chapters 5-30 of the Public Draft EIR/EIS evaluate the impacts of the alternatives on environmental resources. Chapter 5-30 in Appendix A of the RDEIR/SDEIS shows the in-text revisions made to the Public Draft EIR/EIS Chapters.