



# Upper San Joaquin River Basin STORAGE INVESTIGATION

# Initial Alternatives Information Report



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A Study By:

**RECLAMATION**  
*Managing Water in the West*



California Department  
of Water Resources

In Coordination With:



# UPPER SAN JOAQUIN RIVER BASIN STORAGE INVESTIGATION

## Initial Alternatives Information Report

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## ABBREVIATIONS AND ACRONYMS

°F	degrees Fahrenheit
ADMA	Aquatic Diversity Management Area
AFRP	Anadromous Fish Restoration Program
Basin	San Joaquin Valley groundwater basin
Basin Plan	Water Quality Control Plan for the Sacramento and San Joaquin river basins
Bay-Delta	San Francisco Bay/Sacramento-San Joaquin Delta
BDPAC	California Bay-Delta Public Advisory Committee
BLM	U.S. Department of the Interior, Bureau of Land Management
BMP	best management practice
BO	Biological Opinion
BRM	bedrock mortar
CALFED	CALFED Bay-Delta Program
CAR	Critical Aquatic Refuge
CBDA	California Bay-Delta Authority
CCSF	City and County of San Francisco
CCWD	Contra Costa Water District
CDEC	California Data Exchange Center
CDPR	California Department of Parks and Recreation
CEQA	California Environmental Quality Act
CFRF	concrete face rockfill
cfs	cubic feet per second
CNDDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CO	carbon monoxide
COA	Coordinated Operations Agreement
Comprehensive Study	Comprehensive Study for the Sacramento and San Joaquin river basins
Corps	United States Army Corps of Engineers
CVP	Central Valley Project
CVPIA	Central Valley Project Improvement Act
Delta	Sacramento-San Joaquin Delta
DFG	California Department of Fish and Game
DOI	United States Department of the Interior
DWR	California Department of Water Resources
D-xxxx	State Water Resources Control Board Decision-number
EAD	expected annual damages
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
elevation	elevation in feet above mean sea level

ERP	Ecosystem Restoration Program
ESA	Endangered Species Act
EWA	Environmental Water Account
FEIS	Final Environmental Impact Statement
FERC	Federal Energy Regulatory Commission
FR	Feasibility Report
FWA	Friant Water Authority
FWUA	Friant Water Users Authority
GWh	gigawatt-hour
IAIR	Initial Alternatives Information Report
IDSP	In-Delta Storage Project
Investigation	Upper San Joaquin River Basin Storage Investigation
ISI	Integrated Storage Investigation
JPOD	Joint Point of Diversion
KRCD	Kings River Conservation District
kV	kilovolt
kW	kilowatt
M&I	municipal and industrial
MAF	million acre-feet
MAWC	Millerton Area Watershed Coalition
mg/L	milligram per liter
MID	Merced Irrigation District
MW	megawatt
MWDSC	Metropolitan Water District of Southern California
MWh	megawatt-hour
NAWQA	National Water Quality Assessment
NEPA	National Environmental Policy Act
NMFS	National Marine Fisheries Service
NO <sub>2</sub>	nitrogen dioxide
NOD	north-of-Delta
NODOS	North-of-the-Delta Offstream Storage
NOI	Notice of Intent
NOP	Notice of Preparation
NO <sub>x</sub>	nitrous oxide
NRDC	Natural Resources Defense Council
NRHP	National Register of Historic Places
O <sub>3</sub>	ozone
OCAP	Operations Criteria and Plan
P&G	Economic and Environmental Principles and Guidelines for Water and Related Land Resources Implementation Studies
PEIS/R	Programmatic Environmental Impact Statement/Report
PFR	Plan Formulation Report

PG&E	Pacific Gas and Electric Company
PL	Public Law
PM <sub>10</sub>	particulate matter 10 microns in aerometric diameter
RCC	roller-compacted concrete
Reclamation	U.S. Department of the Interior, Bureau of Reclamation
RM	river mile
RMP	Resource Management Plan
RNA	Research Natural Area
ROD	Record of Decision
ROG	reactive organic gas
RWQCB	Regional Water Quality Control Board
SCE	Southern California Edison Company
Secretary	Secretary of the United States Department of the Interior
SJRA	San Joaquin River Agreement
SJRECWA	San Joaquin River Exchange Contractors Water Authority
SJRGAA	San Joaquin River Group Authority
SJRMP	San Joaquin River Management Program
SJVAB	San Joaquin Valley Air Basin
SJVUAPCD	San Joaquin Valley Unified Air Pollution Control District
SNF	Sierra National Forest
SO <sub>2</sub>	sulfur dioxide
SOD	south-of-Delta
SO <sub>x</sub>	sulfur oxide
SRA	State Recreation Area
State	State of California
SWP	State Water Project
SWRCB	State Water Resources Control Board
TA	technical appendix
TAF	thousand acre-feet
TDS	total dissolved solids
TM	technical memorandum
TMDL	total maximum daily load
USEPA	United States Environmental Protection Agency
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
USJRWPA	Upper San Joaquin River Water and Power Authority
VAMP	Vernalis Adaptive Management Plan
WQCP	Water Quality Control Plan