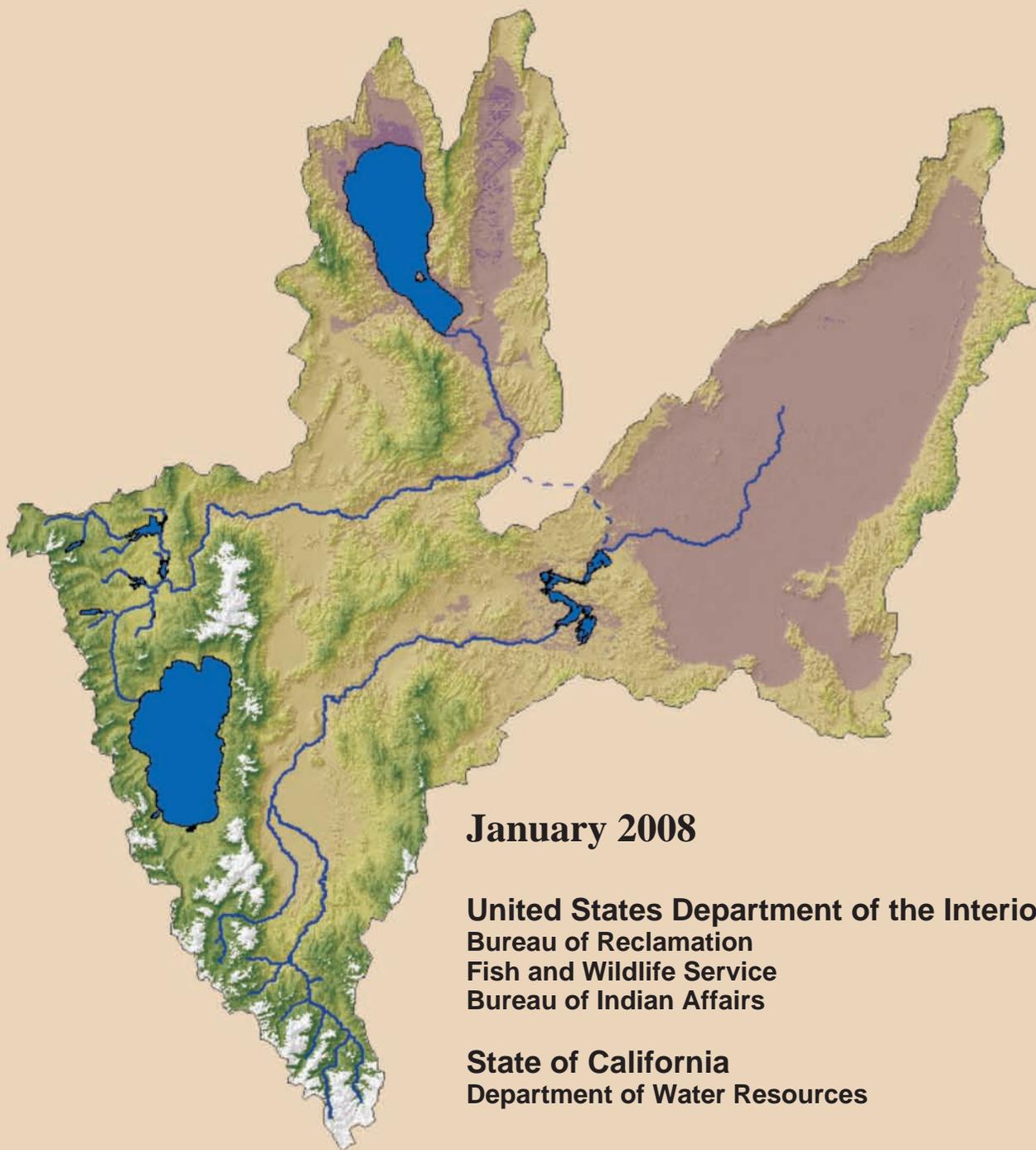


# Truckee River Operating Agreement

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**January 2008**

**United States Department of the Interior  
Bureau of Reclamation  
Fish and Wildlife Service  
Bureau of Indian Affairs**

**State of California  
Department of Water Resources**

**Final Environmental Impact Statement/Environmental Impact Report  
Truckee River Operating Agreement  
Alpine, El Dorado, Nevada, Placer, and Sierra Counties, California  
Carson City, Churchill, Douglas, Lyon, Pershing, Storey, and  
Washoe Counties, Nevada**

**Co-Lead Agencies:**

U.S. Department of the Interior  
Bureau of Reclamation  
Fish and Wildlife Service  
Bureau of Indian Affairs

State of California  
Department of Water Resources

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This final environmental impact statement/environmental impact report (final EIS/EIR) evaluates current conditions and three alternatives, including the Truckee River Operating Agreement (TROA) Alternative, which is the proposed action and preferred alternative. TROA has been negotiated pursuant to section 205(a) of Public Law 101-618. As proposed, TROA would modify operations of five Federal and two non-Federal reservoirs to implement the Congressional allocation of Lake Tahoe, Truckee River, and Carson River waters between the States of California and Nevada. TROA would, in part, (1) enhance conditions for endangered and threatened fishes throughout the Truckee River basin; (2) increase municipal and industrial (M&I) drought protection for Truckee Meadows (Reno-Sparks metropolitan area); (3) improve river water quality downstream from Sparks, Nevada; and (4) enhance streamflows and recreational opportunities in the Truckee River basin.

This final EIS/EIR was prepared in compliance with the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA). It is intended to serve public information requirements pursuant to all appropriate Executive orders, Fish and Wildlife Coordination Act, Endangered Species Act of 1973, as amended, and National Historic Preservation Act of 1966 (section 106).

California State Clearinghouse No. 2004042078

**Final Environmental Impact Statement/Environmental Impact Report**

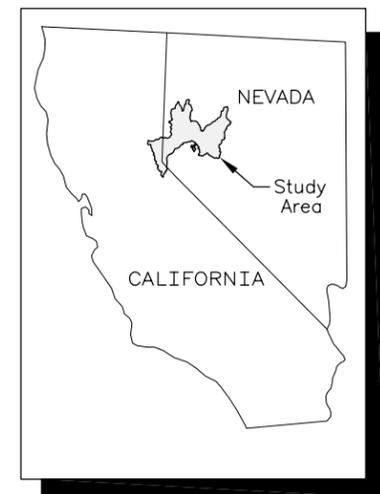
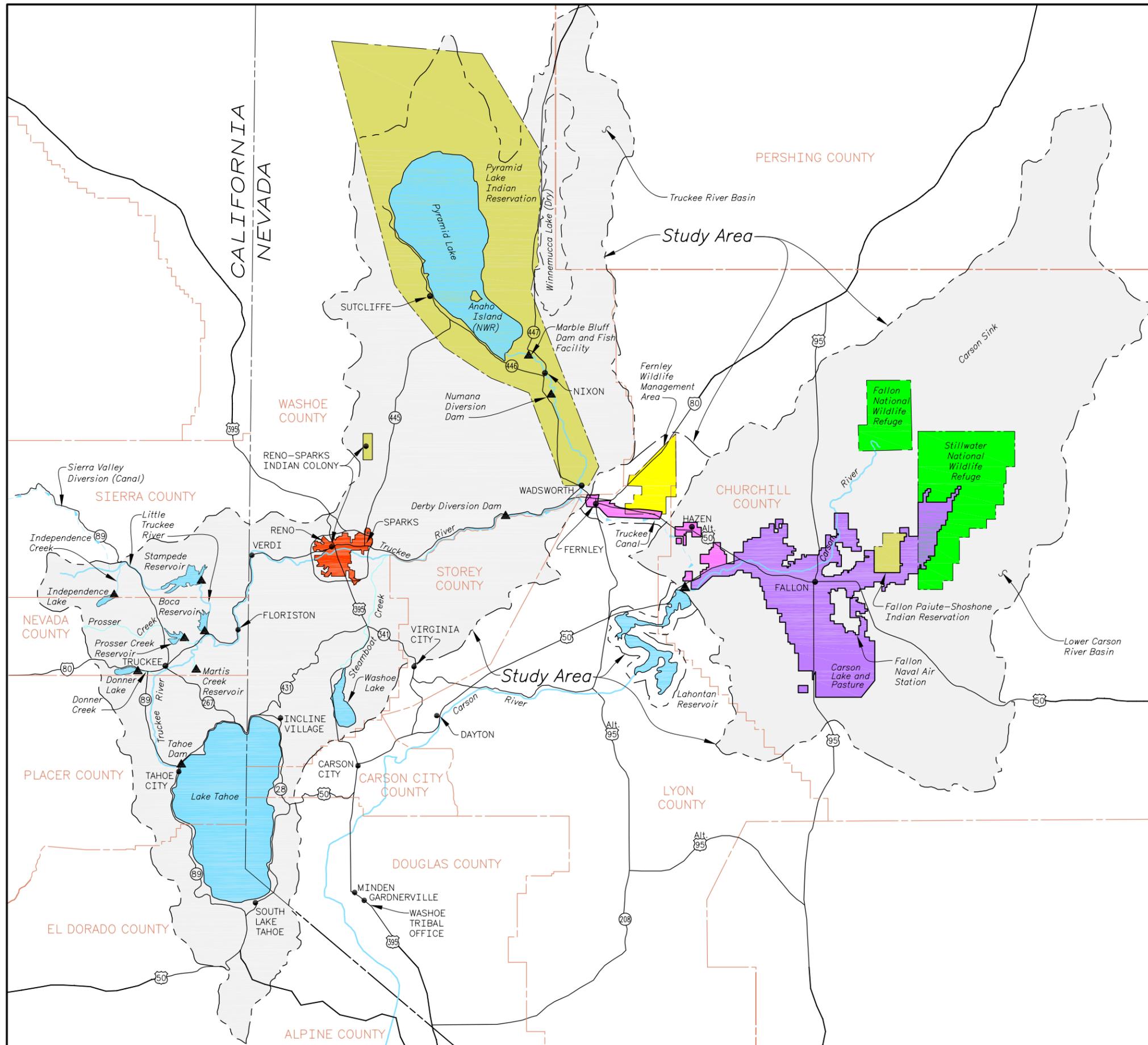
# **Truckee River Operating Agreement**

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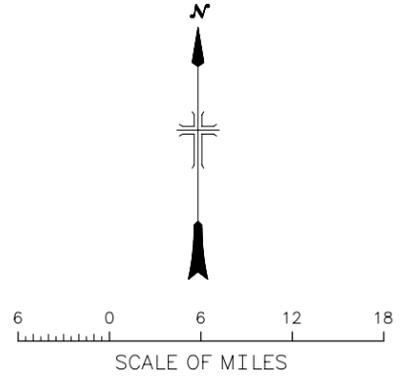
**January 2008**

**United States Department of the Interior  
Bureau of Reclamation  
Fish and Wildlife Service  
Bureau of Indian Affairs**

**State of California  
Department of Water Resources**



- LEGEND**
- Truckee River and Lower Carson River Basins
  - Truckee Meadows
  - Newlands Project – Carson Division
  - Newlands Project – Truckee Division
  - Tribal and Trust Lands
  - National Wildlife Refuge Areas
  - Wildlife Management Areas
  - Lakes, Reservoirs, Streams, and Rivers
  - Dam



FINAL EIS/EIR  
 TRUCKEE RIVER OPERATING AGREEMENT  
 CALIFORNIA AND NEVADA  
 Location Map

# ABBREVIATIONS AND ACRONYMS

AB	Assembly Bill
AQI	Air Quality Index
BIA	Bureau of Indian Affairs
BLM	Bureau of Land Management
BMP	best management practice
BNR	biological nitrogen removal
CARB	California Air Resources Board
CCP	Comprehensive Conservation Plan
CCR	California Code of Regulations
CCT	current conditions with TROA
CDFG	California Department of Fish and Game
CDPR	California Department of Parks and Recreation
CDWR	California Department of Water Resources
CE	cumulative effects
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
cfs	cubic feet per second
CO	carbon monoxide
COE	U.S. Army Corps of Engineers
Compact	Interstate Compact
CWC	California Water Code
DEIS/EIR	draft environmental impact statement/environmental impact report
DO	dissolved oxygen
Draft Agreement	October 2003 Draft Truckee River Operating Agreement
DRI	Desert Research Institute
DSS	Decision Support System
DSSAMt	Dynamic Stream Simulation and Assessment Model with temperature

Truckee River Operating Agreement  
Final Environmental Impact Statement/Environmental Impact Report

EIP	Environmental Improvement Program
EIS/EIR	environmental impact statement/environmental impact report
EPA	Environmental Protection Agency
ESA	Endangered Species Act of 1973, as amended
°F	degrees Fahrenheit
FOIA	Freedom of Information Act
FONSI	Finding of No Significant Impact
FR	Federal Register
FWCA	Fish and Wildlife Coordination Act
FWS	U.S. Fish and Wildlife Service
GIS	geographic information system
H <sub>2</sub> S	hydrogen sulfide
Interior	U.S. Department of the Interior
JPFCW	Joint Program Fish Credit Water
Justice	U.S. Department of Justice
LCT	Lahontan cutthroat trout
LRWQCB	Lahontan Regional Water Quality Control Board
LTBA	Lake Tahoe Basin Act
LVPLFWF	Lahontan Valley Pyramid Lake Fish and Wildlife Fund
LWSA	Local Water Supply Alternative
M&I	municipal and industrial
MCL	maximum contaminant level
MOU	Memorandum of Understanding
msl	mean sea level
MUN	municipal and domestic supply
MWh	megawatt-hours
NAAQS	National Ambient Air Quality Standards
NAC	Nevada Administrative Code
NASF	Naval Air Station Fallon
NDEP	Nevada Division of Environmental Protection
NDOT	Nevada Department of Transportation

NDOW	Nevada Department of Wildlife
NDWR	Nevada Division of Water Resources
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
No Action	No Action Alternative
NO <sub>2</sub>	nitrogen dioxide
NPCW	Newlands Project Credit Water
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
NRS	Nevada Revised Statutes
NWA	Nevada Waterfowl Association
NWR	National Wildlife Refuge
O <sub>3</sub>	ozone
OCAP	Operating Criteria and Procedures
ONR	Outstanding Natural Resource
operations model	Truckee River Operations Model
Pb	lead
P.L.	Public Law
PM <sub>10</sub>	particulate matter
PSA	Preliminary Settlement Agreement, as modified by the Ratification Agreement
PSI	Pollution Standard Index
Pyramid Tribe	Pyramid Lake Paiute Tribe of Indians
Reclamation	Bureau of Reclamation
revised DEIS/EIR	revised draft environmental impact statement/ environmental impact report
RMHQ	requirements to maintain existing higher quality
RMP	Resource Management Plan
ROD	Record of Decision
SCORP	State Comprehensive Outdoor Recreation Plan
Secretary	Secretary of the Interior
Settlement Act	Title II of Public Law 101-618, the Truckee-Carson- Pyramid Lake Water Settlement Act of 1990
SHPO	State Historic Preservation Office
Sierra Pacific	Sierra Pacific Power Company

Truckee River Operating Agreement  
Final Environmental Impact Statement/Environmental Impact Report

SIP	State Implementation Plan
SO <sub>2</sub>	sulfur dioxide
States	California and Nevada
STMWRF	South Truckee Meadows Water Reclamation Facility
SWRCB	California State Water Resources Control Board
TCID	Truckee-Carson Irrigation District
TDS	total dissolved solids
TMDL	total maximum daily load
TMWA	Truckee Meadows Water Authority
TMWRF	Truckee Meadows Water Reclamation Facility
TPEA	Tahoe-Prosser Exchange Agreement
TRA	Truckee River Agreement
TRBWG	Truckee River Basin Water Group
TRIT	Truckee River Basin Recovery Implementation Team
TROA	Truckee River Operating Agreement
TRPA	Tahoe Regional Planning Agency
Truckee Meadows	Reno-Sparks metropolitan area
TTSA	Tahoe-Truckee Sanitation Agency
UNR	University of Nevada, Reno
U.S.C.	United States Code
USFS	U.S. Forest Service
USGS	U.S. Geological Survey
USRS	U.S. Reclamation Service
VMS	Visual Management System
VQO	Visual Quality Objectives
VRM	Visual Resource Management System
VRP	visibility-reducing particles
WARMF	Watershed Analysis Risk Management Framework
WCWCD	Washoe County Water Conservation District
WMA	Wildlife Management Area
WQSA	Truckee River Water Quality Settlement Agreement
WRAP	Water Rights Acquisition Program for Stillwater National Wildlife Refuge

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### Attachments

*Attachment*

- A P.L. 101-618
- B Preliminary Settlement Agreement
- C March 12, 2003, Letter from the Truckee Meadows Water Authority: TROA EIS/EIR Planning Assumptions
- D June 2, 2003, Letter from the California Department of Water Resources: Water Use Estimates for the Lake Tahoe and Truckee River Basins
- E Nevada State Engineer’s Groundwater Management Order 1161, Dated May 16, 2000
- F Donner Lake Evaluation
- G January 22, 2003, Letter from the Pyramid Lake Paiute Tribe of Indians: TROA EIS/EIR
- H April 23, 2007, Letter from the U.S. Fish and Wildlife Service: Informal Consultation

### Appendices (under separate cover)

Negotiated Agreement

SWRCB Notice of Petitions and Water Appropriation Applications

Water Resources

Water Quality

Sedimentation and Erosion

Biological Resources

Economics and Recreation

Cultural Resources

Cumulative Effects

Comments and Responses