

Transportation

— Roads

Hydrography

— Watercourse

Water Body

Designated Boundary

Wilderness Area

Auburn State Recreation Area*

* State Park boundaries are approximate and should not be considered legal descriptions. Maps are intended for study purposes only.

Non-Project Recreation Trails

Pacific Crest Trail*

"Tevis Cup Ride" Course*** (Including Alternate Routes)

Western States Trail** (Including Alternate Routes)

"Western States 100" Course***

OHV Trails*

Other Trails*

Major Trailheads*

Selected Reference Points

Stream Crossing Locations

SOURCES:
* U.S.F.S. / U.S.G.S. / Auburn State Recreation Area

** U.S.F.S. / Hall, Hal. 2006. "The Western States Trail Guide"

*** Western States Trail Foundation / Hall, Hal. 2006. "The Western States Trail Guide"



Placer County Water Agency
Middle Fork American River Project

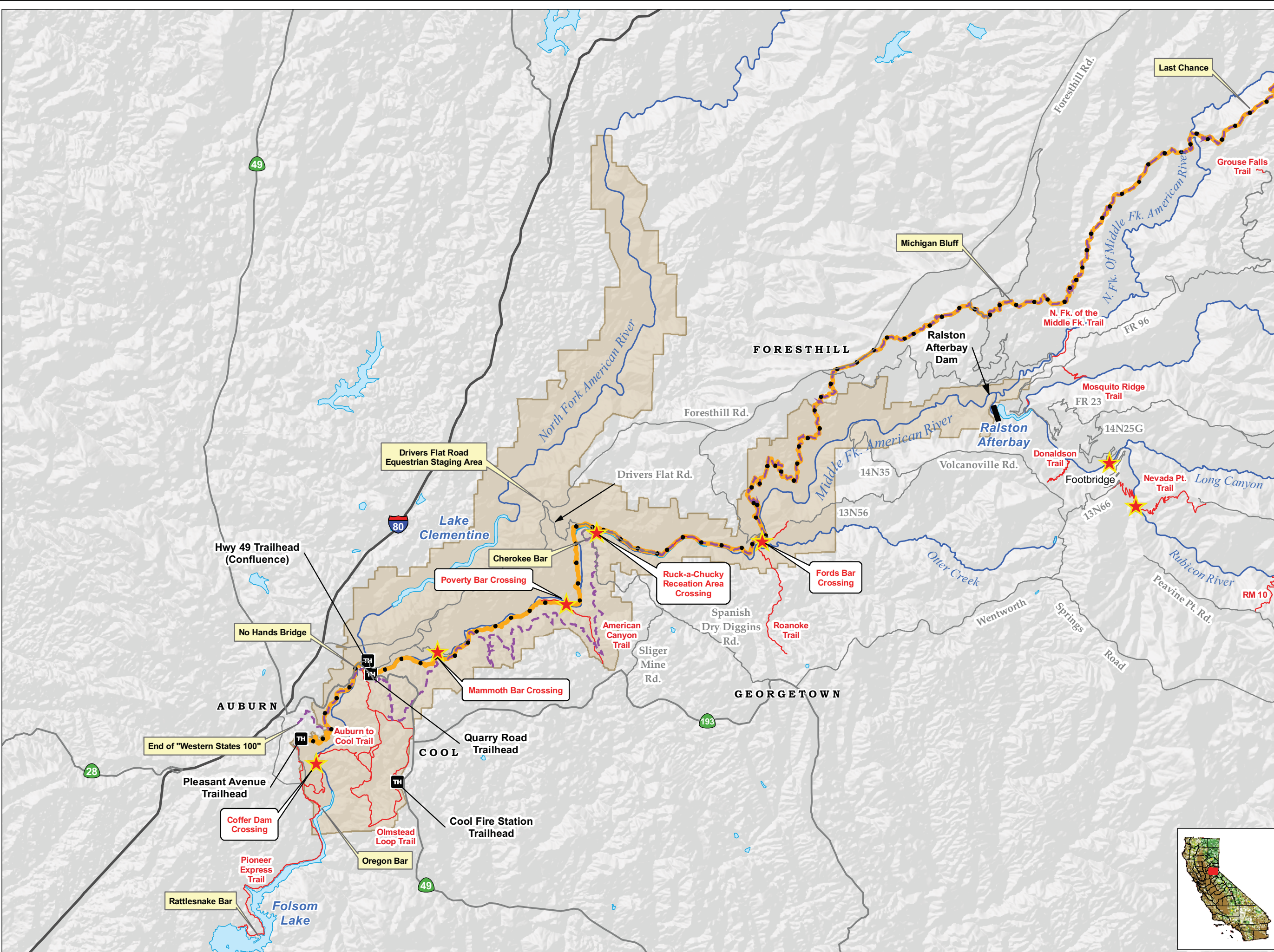
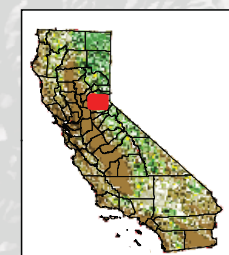
Map REC 4-1

Popular Trails and Stream Crossing Locations
in the Middle Fork American River Watershed
Sheet 1 of 2



Projection: CA State Plane, Zone 2
Datum: NAD 83

Date: 5/5/10



Transportation

— Roads

Hydrography

— Watercourse

Water Body

Designated Boundary

Wilderness Area

Auburn State Recreation Area*

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Non-Project Recreation Trails

Pacific Crest Trail*

"Tevis Cup Ride" Course*** (Including Alternate Routes)

Western States Trail** (Including Alternate Routes)

"Western States 100" Course***

OHV Trails*

Other Trails*

Major Trailheads*

Selected Reference Points

Stream Crossing Locations

SOURCES:
* U.S.F.S. / U.S.G.S. / Auburn State Recreation Area
** U.S.F.S. / Hall, Hal. 2006. "The Western States Trail Guide"
*** Western States Trail Foundation / Hall, Hal. 2006. "The Western States Trail Guide"



Placer County Water Agency
Middle Fork American River Project

Map REC 4-1

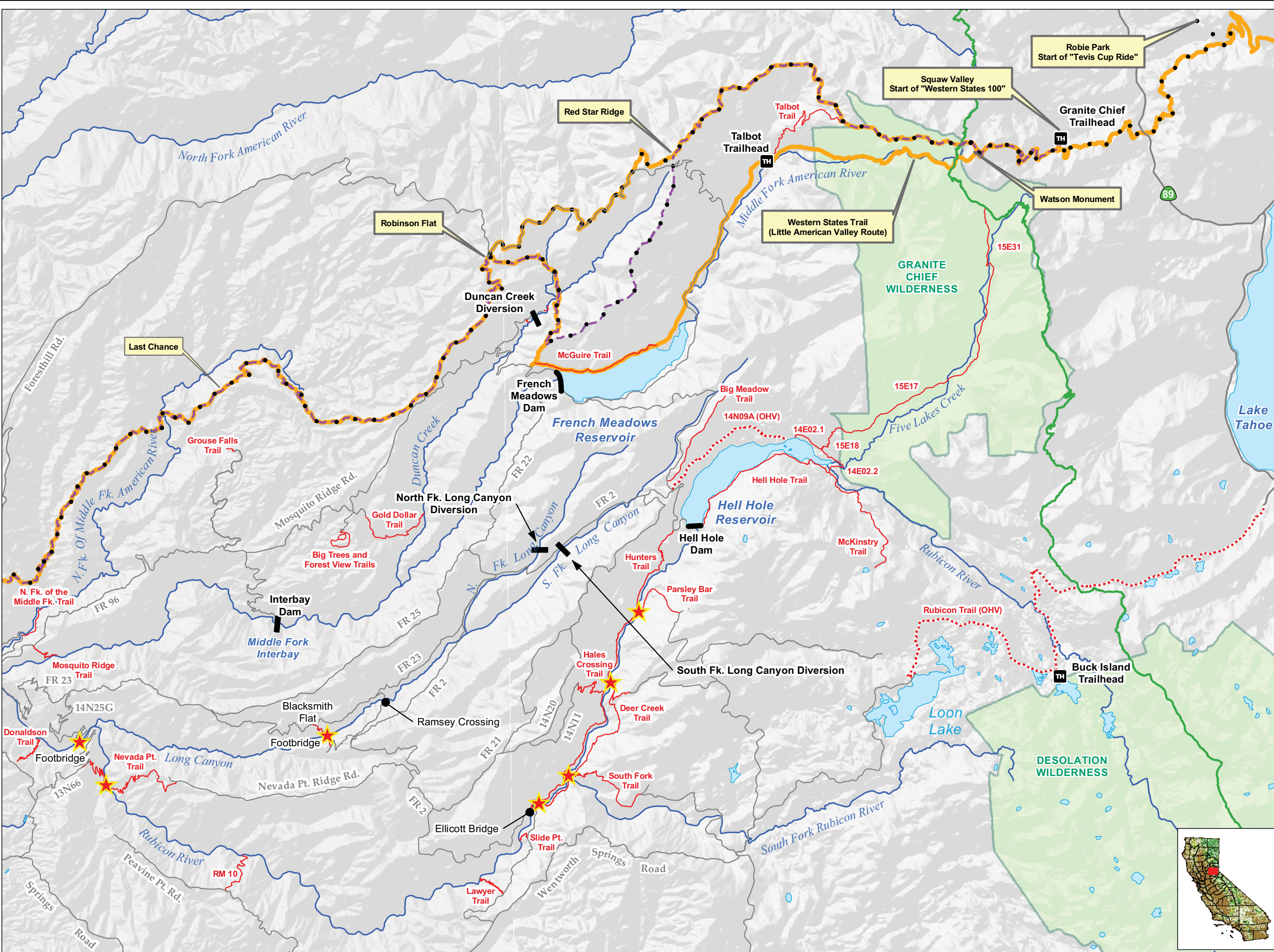
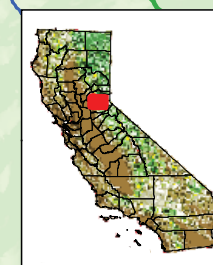
Popular Trails and Stream Crossing Locations
in the Middle Fork American River Watershed
Sheet 2 of 2






0 0.5 1 2 Miles

Projection: CA State Plane, Zone 2
Datum: NAD 83

Date: 5/5/10



-  River Crossing Transect
(with length in feet)
-  River Access Road
-  River Access Trail



Dirt Access Road

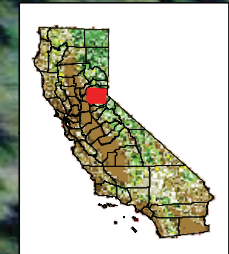
Western States Trail

215'

Cock Robin Point Trail

Roanoke Trail

FORDS BAR



Placer County Water Agency
Middle Fork American River Project




Map REC 4-2
Trail Crossing Transect
Fords Bar Crossing




0 25 50 100
Feet

Date: 5/25/10

Projection: CA State Plane, Zone 2
Datum: NAD 83

-  River Crossing Transect (with length in feet)
-  River Access Road
-  River Access Trail






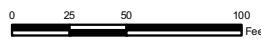
Placer County Water Agency
Middle Fork American River Project

Map REC 4-3

Trail Crossing Transect
Ruck-a-Chucky
Recreation Area Crossing






Date: 5/25/10



0 25 50 100 Feet

Projection: CA State Plane, Zone 2
Datum: NAD 83

-  River Crossing Transect
(with length in feet)
-  River Access Road
-  River Access Trail

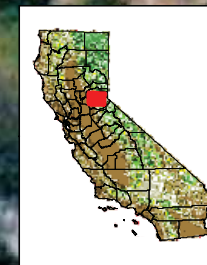
PHILADELPHIA BAR

Western States Trail

340'

POVERTY BAR

American Canyon Trail



Placer County Water Agency
Middle Fork American River Project

Map REC 4-4

Trail Crossing Transect




Poverty Bar Crossing



0 25 50 100
Feet

Projection: CA State Plane, Zone 2
Datum: NAD 83

Date: 5/25/10

-  River Crossing Transect
(with length in feet)
-  River Access Road
-  River Access Trail

Mammoth Bar Road

PARKING
AREA

177'

OHV AREA

To Quarry Road Trail



Placer County Water Agency
Middle Fork American River Project




Map REC 4-5
Trail Crossing Transect
Mammoth Bar Crossing



0 25 50 100
Feet

Projection: CA State Plane, Zone 2
Datum: NAD 83

Date: 5/25/10

-  River Crossing Transect
(with length in feet)
-  River Access Road
-  River Access Trail

Auburn to Cool Trail

177'

**NOTE: September 2005 Orthophoto
River since restored**

**BIRDSALL
ACCESS**



Placer County Water Agency
Middle Fork American River Project

Map REC 4-6
Trail Crossing Transect
Coffer Dam Crossing



0 25 50 100
Feet

Projection: CA State Plane, Zone 2
Datum: NAD 83

Date: 5/25/10

Land Jurisdictions / Ownership*

- Eldorado National Forest
- Tahoe National Forest
- USDA - FS Other
- PCWA
- Lone Star Timber
- Sierra Pacific Industries**
- Other Private (Blank)
- Bureau of Land Management
- Bureau of Reclamation

** Includes former properties of R.H. Emmerson & Son, LLC

* PARCEL DATA SOURCES:
 Placer County, September 2009,
 El Dorado County, September 2009,
 USFS Region 5, March 2010.
 Some data has been modified to account for known errors and is to be used for general planning purposes only.

Transportation

- Major Road
- Minor Road

Hydrography

- Watercourse
- Water Body

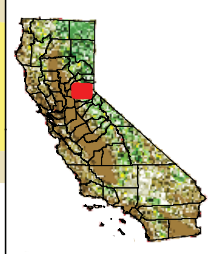
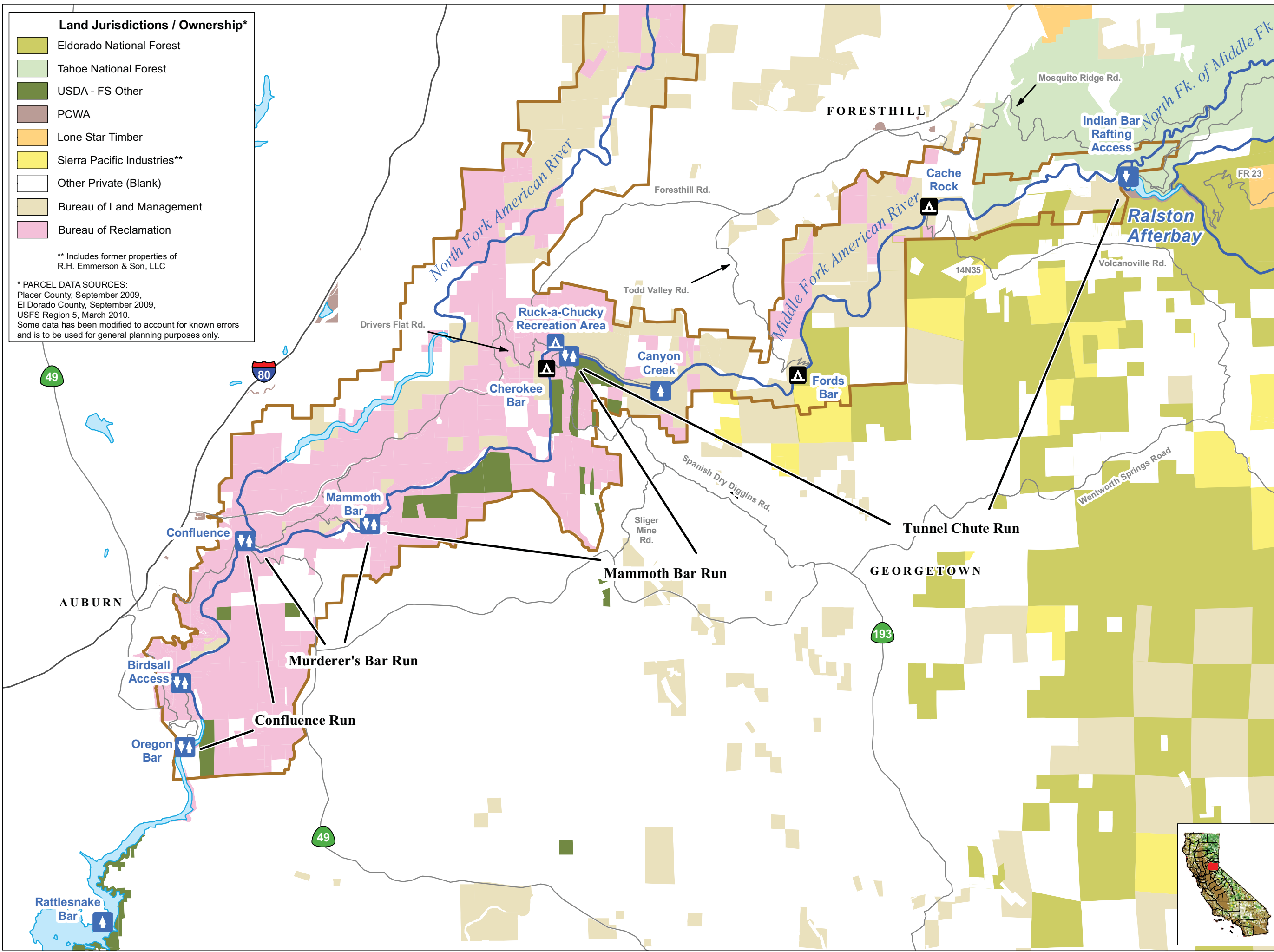
Designated Boundary

- Auburn State Recreation Area*

* State Park boundaries are approximate and should not be considered legal descriptions. Maps are intended for study purposes only.

Whitewater Recreation Resources

- Put-In/Take-Out
- Put-In (Only)
- Take-Out (Only)
- Developed Campground
- Primitive Camping

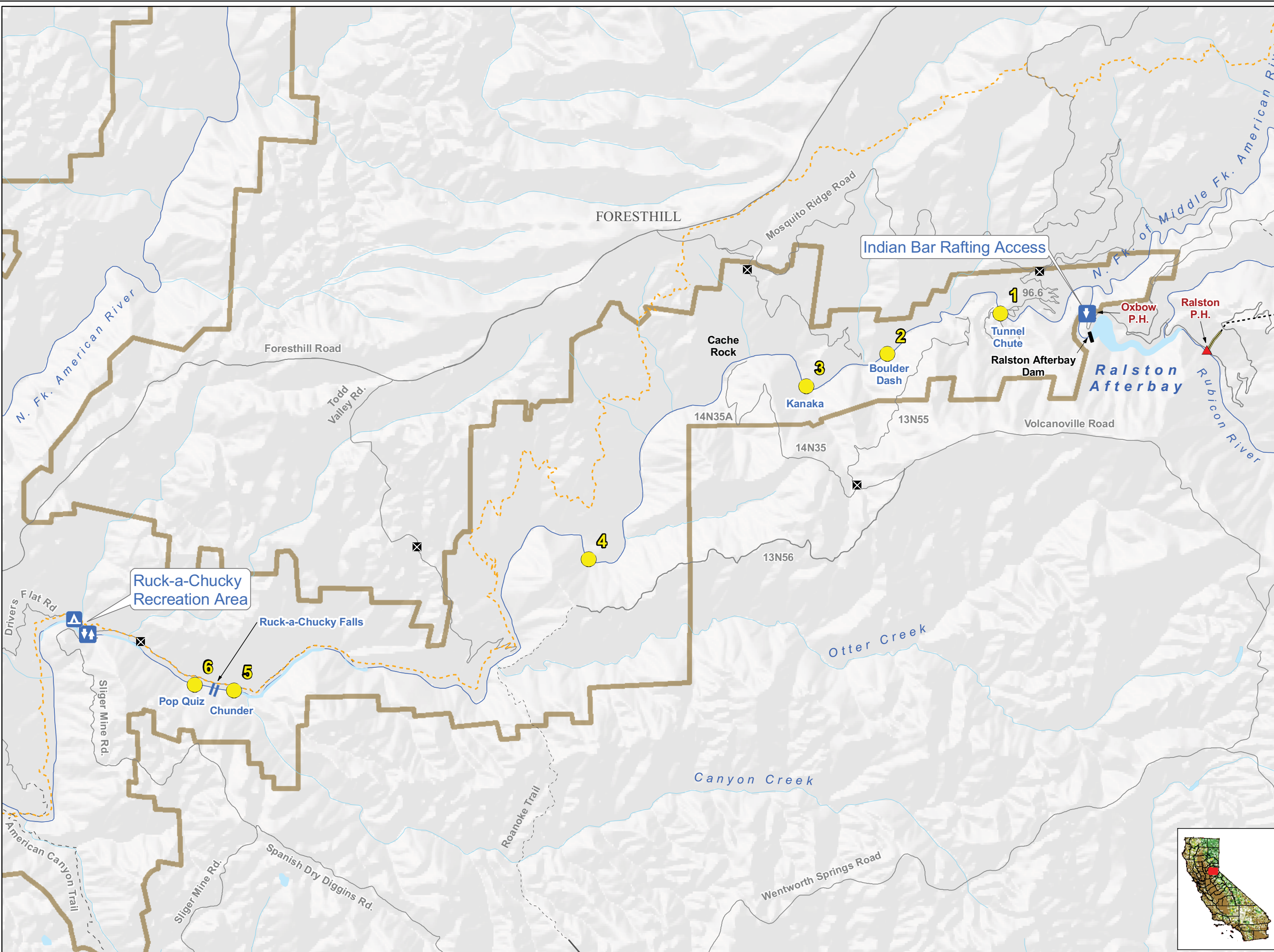


PCWA
 Placer County Water Agency
 Middle Fork American River Project

Map REC 4-7
Whitewater Boating Runs in the Peaking Reach

0 0.5 1 2 Miles
 Projection: CA State Plane, Zone 2
 Datum: NAD 83

Date: 5/26/10




- Project-Related Facilities**
- Powerhouse
 - Dam
 - Tunnel
 - Penstock
- Hydrography**
- Watercourse
 - Water Body
- Transportation**
- Major Highway
 - Minor Road
 - Trail
 - Western States Trail
 - Locked Gate
- Designated Boundary**
- Auburn State Recreation Area*

*Disclaimer: State Park Boundaries are approximate and should not be considered legal descriptions. Maps are intended for study purposes only.

- Whitewater Recreation Resources**
- Put-In/Take-Out
 - Put-In (Only)
 - Take-Out (Only)
 - Developed Campground


- Whitewater Flow Study**
- Flow Study Photo Documentation Location



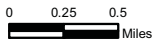
Placer County Water Agency
Middle Fork American River Project

Map REC 4-8

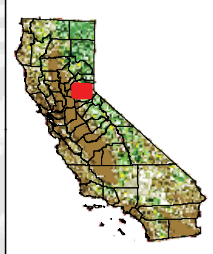
**Whitewater Flow Study
Photo Documentation Locations
Tunnel Chute Run**

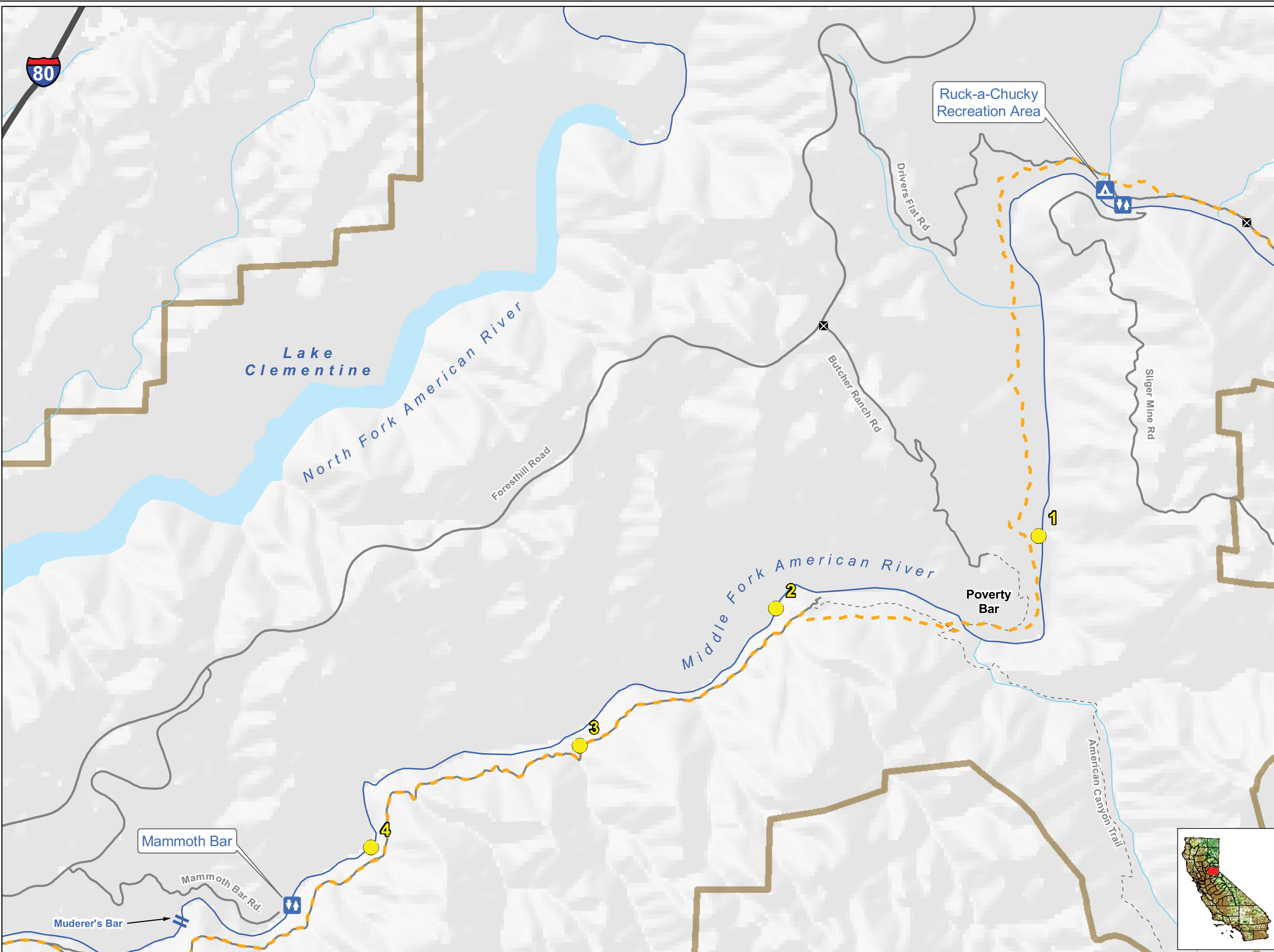


Date: 5/26/10



Projection: Ca. Stateplane, Zone 2
Datum: NAD 83





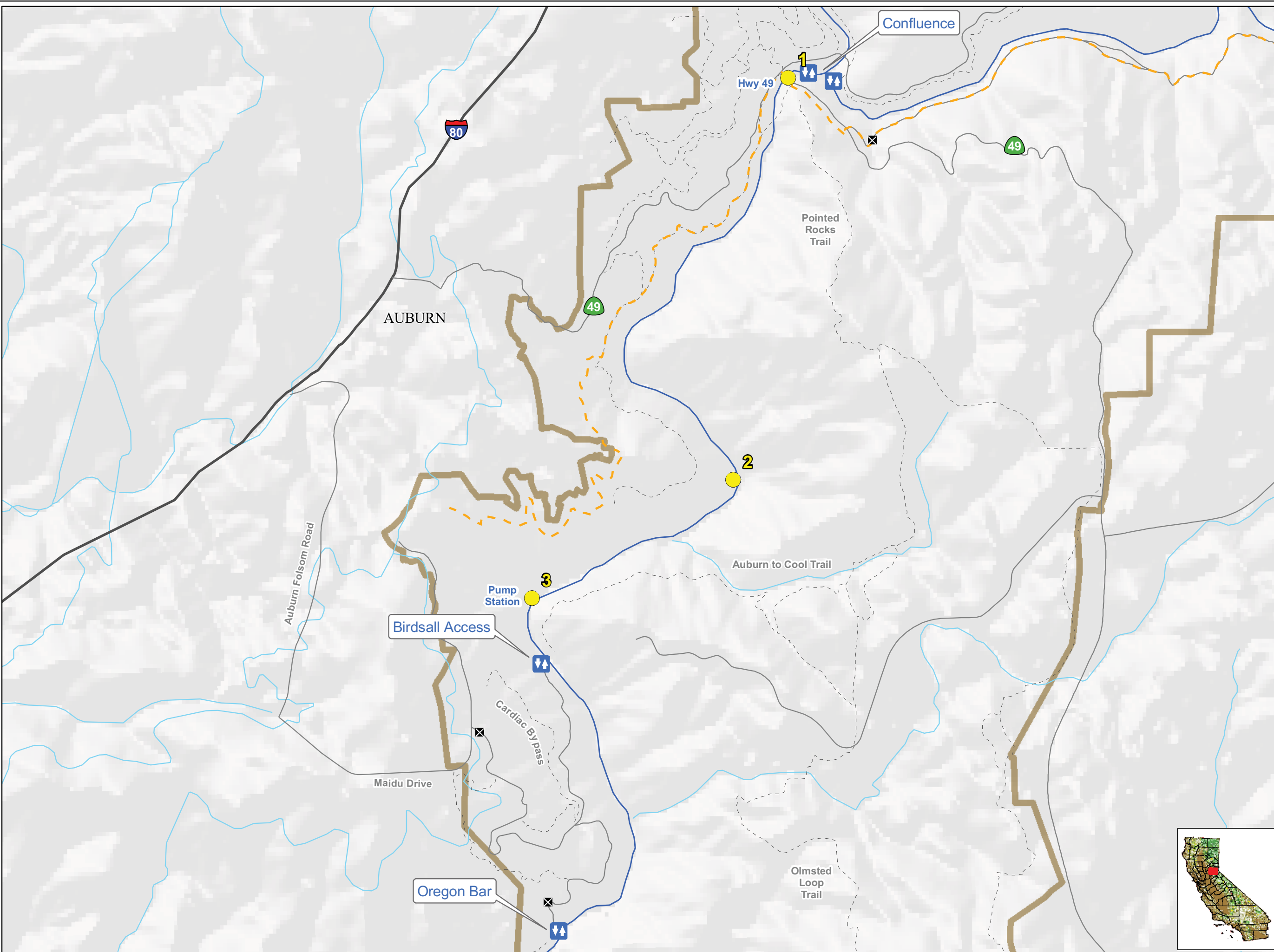
- Project-Related Facilities**
- Powerhouse
 - Dam
 - Tunnel
 - Penstock
- Hydrography**
- Watercourse
 - Water Body
- Transportation**
- Major Highway
 - Minor Road
 - Trail
 - Western States Trail
 - Locked Gate
- Designated Boundary**
- Auburn State Recreation Area*
- *Disclaimer: State Park Boundaries are approximate and should not be considered legal descriptions. Maps are intended for study purposes only.
- Whitewater Recreation Resources**
- Put-In/Take-Out
 - Put-In (Only)
 - Take-Out (Only)
 - Developed Campground
- Whitewater Flow Study**
- Flow Study Photo Documentation Location

PCWA
Placer County Water Agency
Middle Fork American River Project

Map REC 4-9

**Whitewater Flow Study
Photo Documentation Locations
Mammoth Bar Run**

Projection: Ca. Stateplane, Zone 2
Datum: NAD 83
Date: 5/26/10



Project-Related Facilities

- ▲ Powerhouse
- Dam
- - - Tunnel
- ▬ Penstock

Hydrography

- ▬ Watercourse
- ▭ Water Body

Transportation

- ▬ Major Highway
- ▬ Minor Road
- - - Trail
- - - Western States Trail
- ⊠ Locked Gate

Designated Boundary

- ▭ Auburn State Recreation Area*

*Disclaimer: State Park Boundaries are approximate and should not be considered legal descriptions. Maps are intended for study purposes only.

Whitewater Recreation Resources

- ⬆️⬆️ Put-In/Take-Out
- ⬆️ Put-In (Only)
- ⬆️ Take-Out (Only)
- ⬆️ Developed Campground

Whitewater Flow Study

- Flow Study Photo Documentation Location

PCWA
Placer County Water Agency
Middle Fork American River Project

Map REC 4-10

**Whitewater Flow Study
Photo Documentation Locations
Confluence Run**

0 0.25 0.5 Miles
Projection: Ca. Stateplane, Zone 2
Datum: NAD 83
Date: 5/26/10

Land Jurisdictions / Ownership*

- Eldorado National Forest
- Tahoe National Forest
- USDA - FS Other
- PCWA
- Lone Star Timber
- Sierra Pacific Industries**
- Other Private (Blank)
- Bureau of Land Management
- Bureau of Reclamation

** Includes former properties of R.H. Emmerson & Son, LLC

* PARCEL DATA SOURCES:
 Placer County, September 2009,
 El Dorado County, September 2009,
 USFS Region 5, March 2010.
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Project Facilities

- Dam or Diversion

Project Recreation Facilities

- Boat Ramp
- Developed Campground
- Picnic Area
- Scenic Viewpoint

Transportation

- Roads
- Trails

Hydrography

- Watercourse
- Water Body

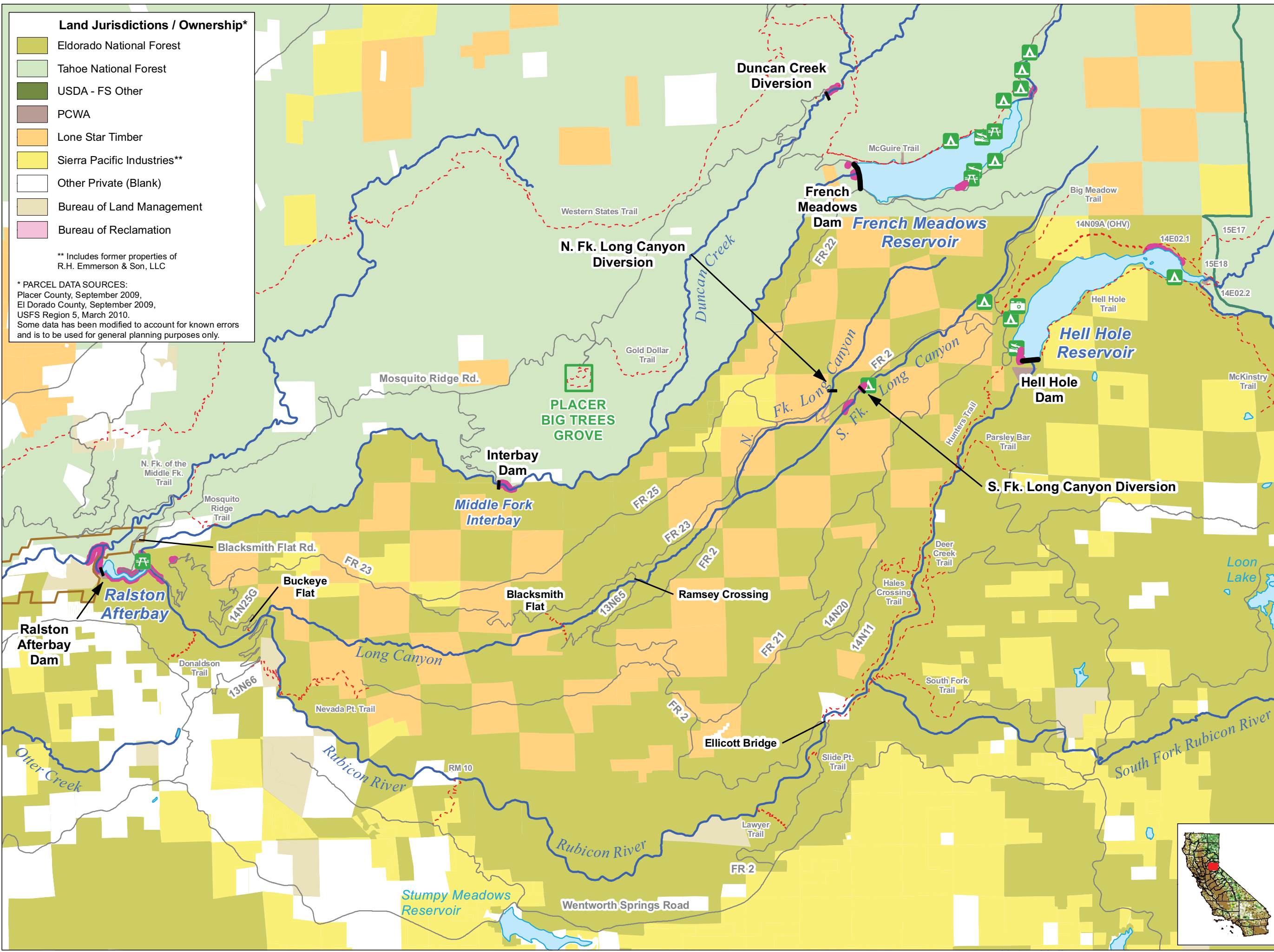
Designated Boundary

- Wilderness Area
- Auburn State Recreation Area*

* State Park boundaries are approximate and should not be considered legal descriptions. Maps are intended for study purposes only.

Recreational Use

- Dispersed Concentrated Use Areas

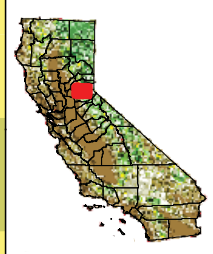


PCWA
 Placer County Water Agency
 Middle Fork American River Project

Map REC 4-11
Dispersed Concentrated Use Areas Identified by the Stakeholders

0 0.5 1 2 Miles
 Projection: CA State Plane, Zone 2
 Datum: NAD 83

Date: 5/26/10



Project-Related Facilities

- ▲ Powerhouse
- Dam
- - - Tunnel
- Penstock

Hydrography

- Watercourse
- Water Body
- River Mile Marker

Transportation

- Major Highway
- Minor Road
- River Access Road
- - - River Access Trail
- Western States Trail**
- ⊠ Locked Gate

** U.S.F.S. / Hall, Hal. 2006. "The Western States Trail Guide"

Designated Boundary

- Auburn State Recreation Area**

**Disclaimer: State Park Boundaries are approximate and should not be considered legal descriptions. Maps are intended for study purposes only.

Whitewater Recreation Resources

- ▲▲ Put-In/Take-Out
- ▲ Put-In (Only)
- ▲ Take-Out (Only)
- ▲ Developed Campground
- ▲ Primitive Camping



Placer County Water Agency
Middle Fork American River Project

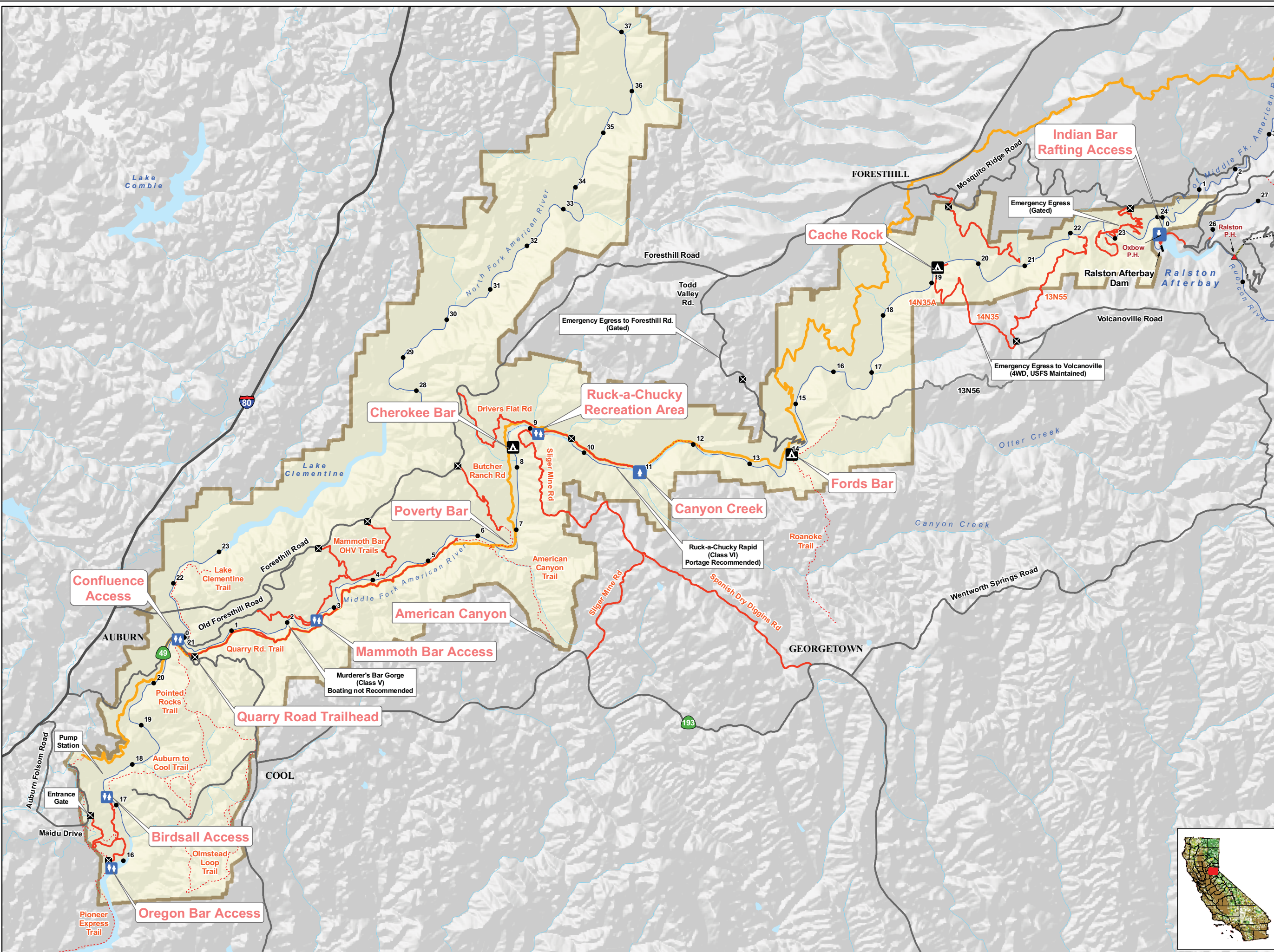
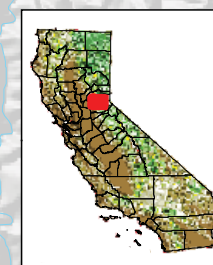
Map REC 4-12

**Recreation Areas, Roads and Trails
in the Auburn State Recreation Area**

0 0.25 0.5 1 1.5 2 Miles

Projection: Ca. Stateplane, Zone 2
Datum: NAD 83

Date: 5/26/10



Land Jurisdictions / Ownership*

- Eldorado National Forest
- Tahoe National Forest
- USDA - FS Other
- PCWA
- Lone Star Timber
- Sierra Pacific Industries**
- Other Private (Blank)
- Bureau of Land Management
- Bureau of Reclamation

** Includes former properties of R.H. Emmerson & Son, LLC

* PARCEL DATA SOURCES:
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 El Dorado County, September 2009,
 USFS Region 5, March 2010.
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Project Facilities

- Dam or Diversion
- Boat Ramp
- Developed Campground
- Picnic Area
- Scenic Viewpoint

Transportation

- Roads
- Trails

Hydrography

- Watercourse
- Water Body

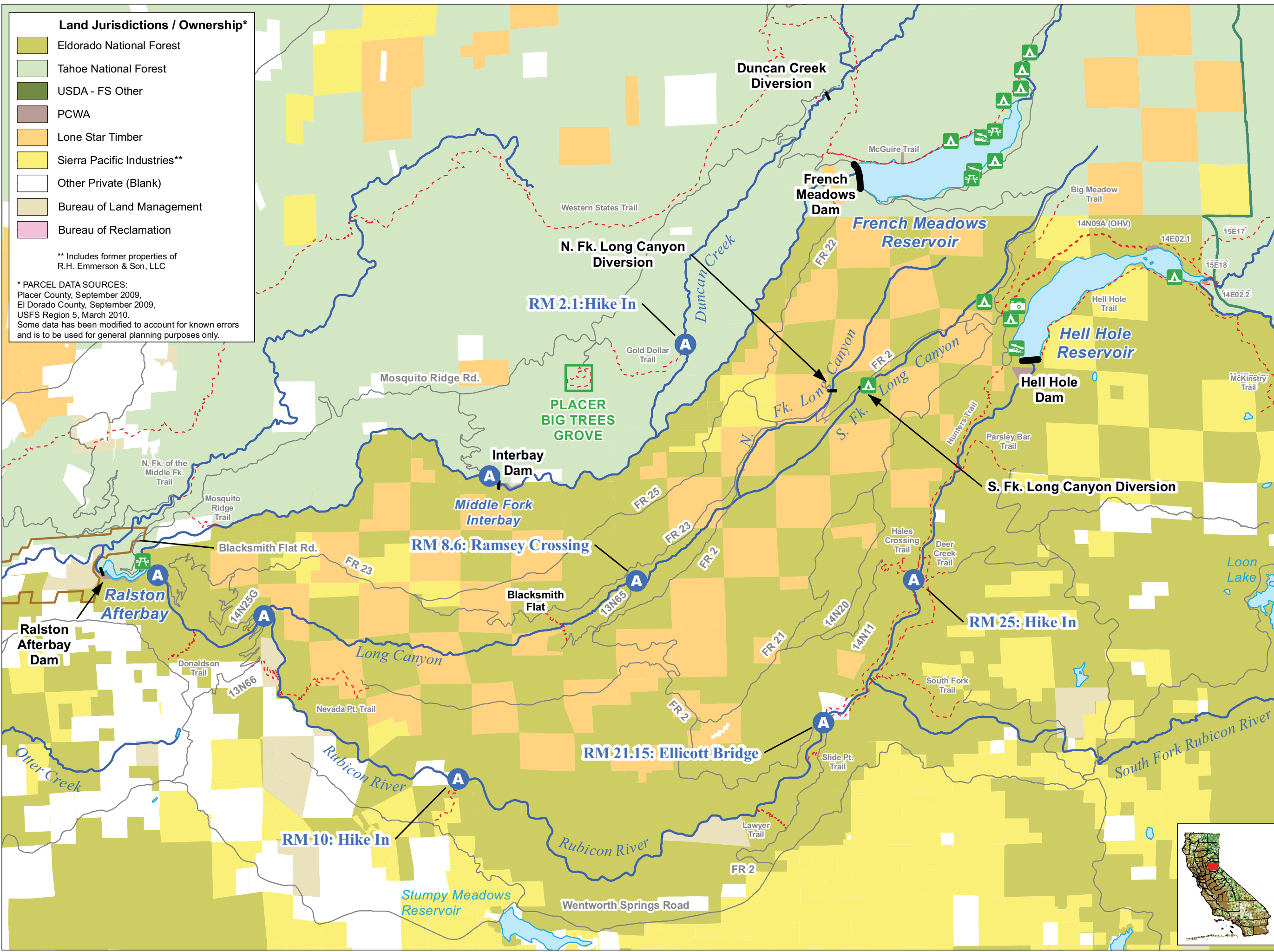
Designated Boundary

- Wilderness Area
- Auburn State Recreation Area*

* State Park boundaries are approximate and should not be considered legal descriptions. Maps are intended for study purposes only.

Whitewater Boating Resources

- Access Point**
- ** Established by Focus Group and Through Follow-up Consultation

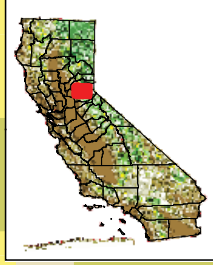


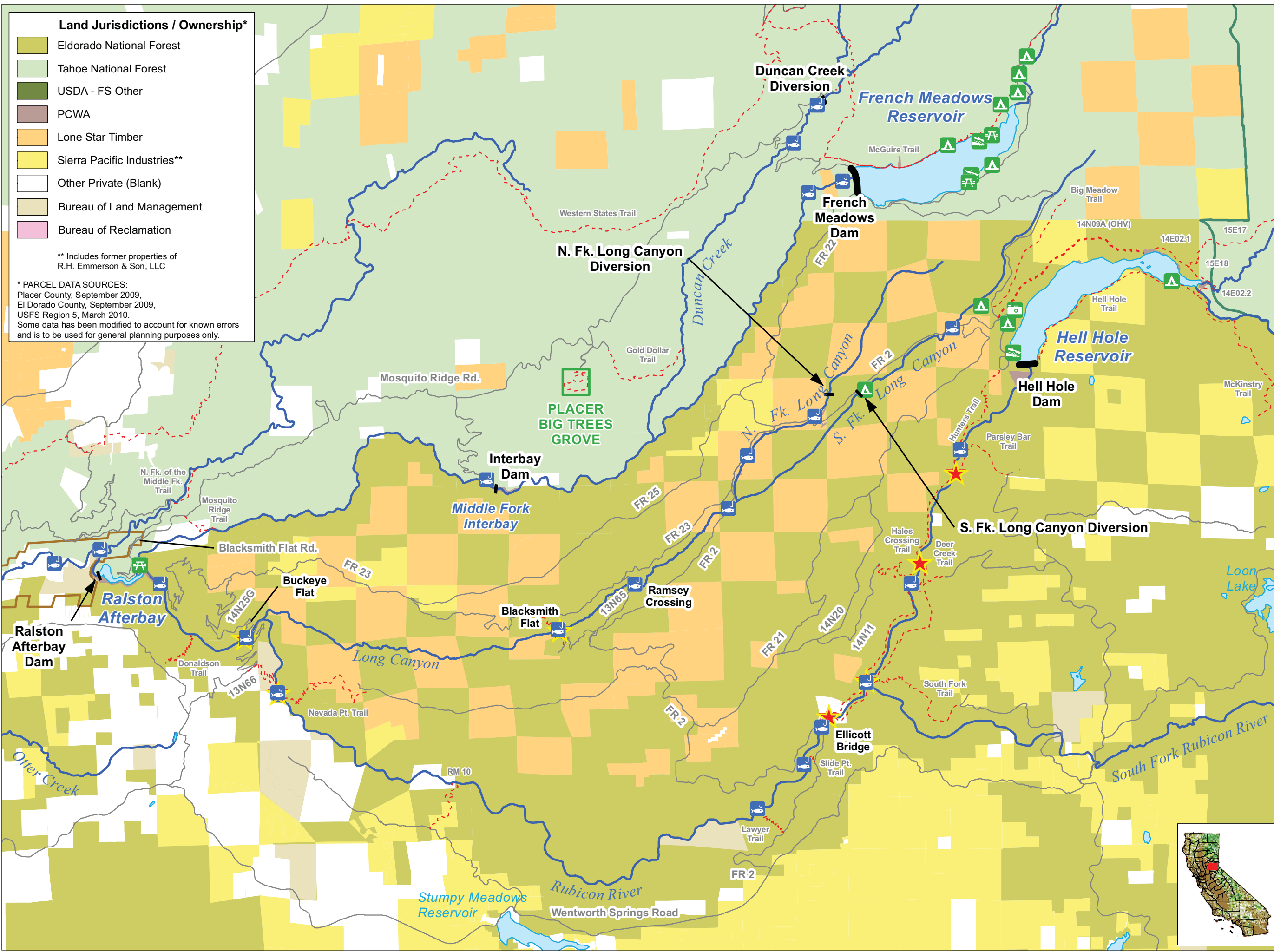
Placer County Water Agency
 Middle Fork American River Project

Map REC 4-13

**Whitewater Boating Access Points
 on the Bypass Reaches**

Scale: 0 0.5 1 2 Miles
 Projection: CA State Plane, Zone 2
 Datum: NAD 83
 Date: 5/26/10














PCWA
 Placer County Water Agency
 Middle Fork American River Project

Map REC 4-14
Popular Fishing Areas and Access Points in the Bypass Reaches

0 0.5 1 2 Miles
 Projection: CA State Plane, Zone 2
 Datum: NAD 83
 Date: 5/26/10


Land Jurisdictions / Ownership*

-  Eldorado National Forest
-  Tahoe National Forest
-  USDA - FS Other
-  PCWA
-  Lone Star Timber
-  Sierra Pacific Industries**
-  Other Private (Blank)
-  Bureau of Land Management
-  Bureau of Reclamation





** Includes former properties of R.H. Emmerson & Son, LLC

* PARCEL DATA SOURCES:
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Project Facilities

-  Dam or Diversion



Project Recreation Facilities

-  Boat Ramp
-  Developed Campground
-  Picnic Area
-  Scenic Viewpoint


Transportation

-  Roads
-  Trails

Hydrography


-  Watercourse
-  Water Body

Designated Boundary

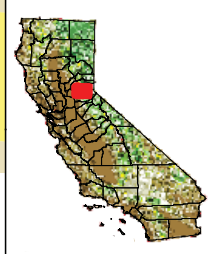
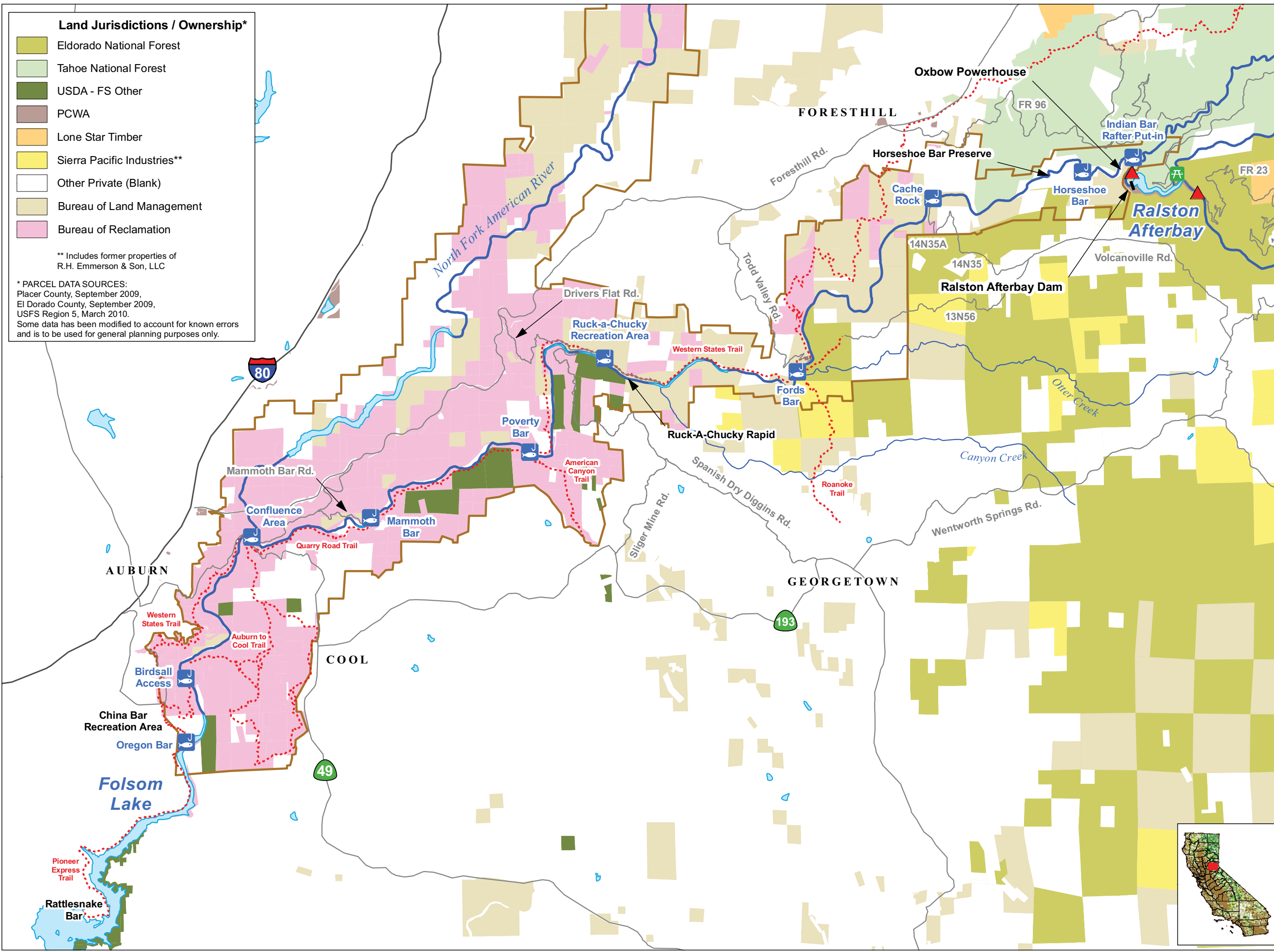
-  Auburn State Recreation Area*

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Angling Resources

-  Popular Fishing Area or Access Point**

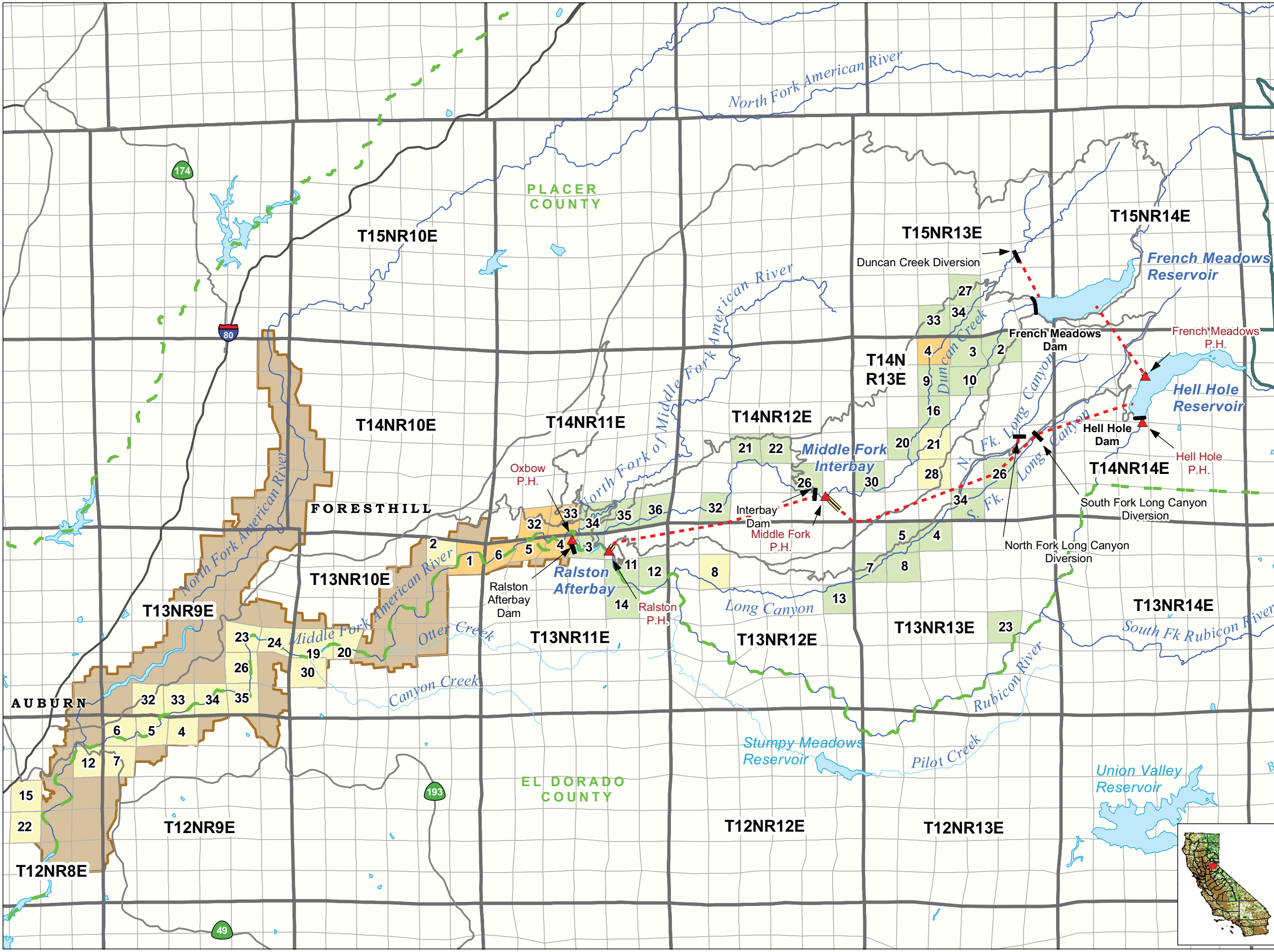
** Established by Focus Group and Follow-up Consultation



PCWA
 Placer County Water Agency
 Middle Fork American River Project

Map REC 4-15
Popular Fishing Areas and Access Points in the Peaking Reach

0 0.5 1 2 Miles
 Projection: CA State Plane, Zone 2
 Datum: NAD 83
 Date: 5/26/10



Project Facilities

- ▲ Powerhouse
- Dam
- - - Tunnel
- == Penstock

Transportation

- Major Road
- Minor Road

Hydrography

- Watercourse
- Water Body

Designated Boundary

- County Boundary
- Wilderness Area
- Auburn State Recreation Area
- Section
- Township/Range

Bureau of Land Management Mining Claims

- Section Containing Unpatented Mining Claims
- Section Containing Patented Mining Claims
- Section Containing Both Unpatented and Patented Mining Claims
- 26 Number of Claims Present in Each Section

PCWA
Placer County Water Agency
Middle Fork American River Project

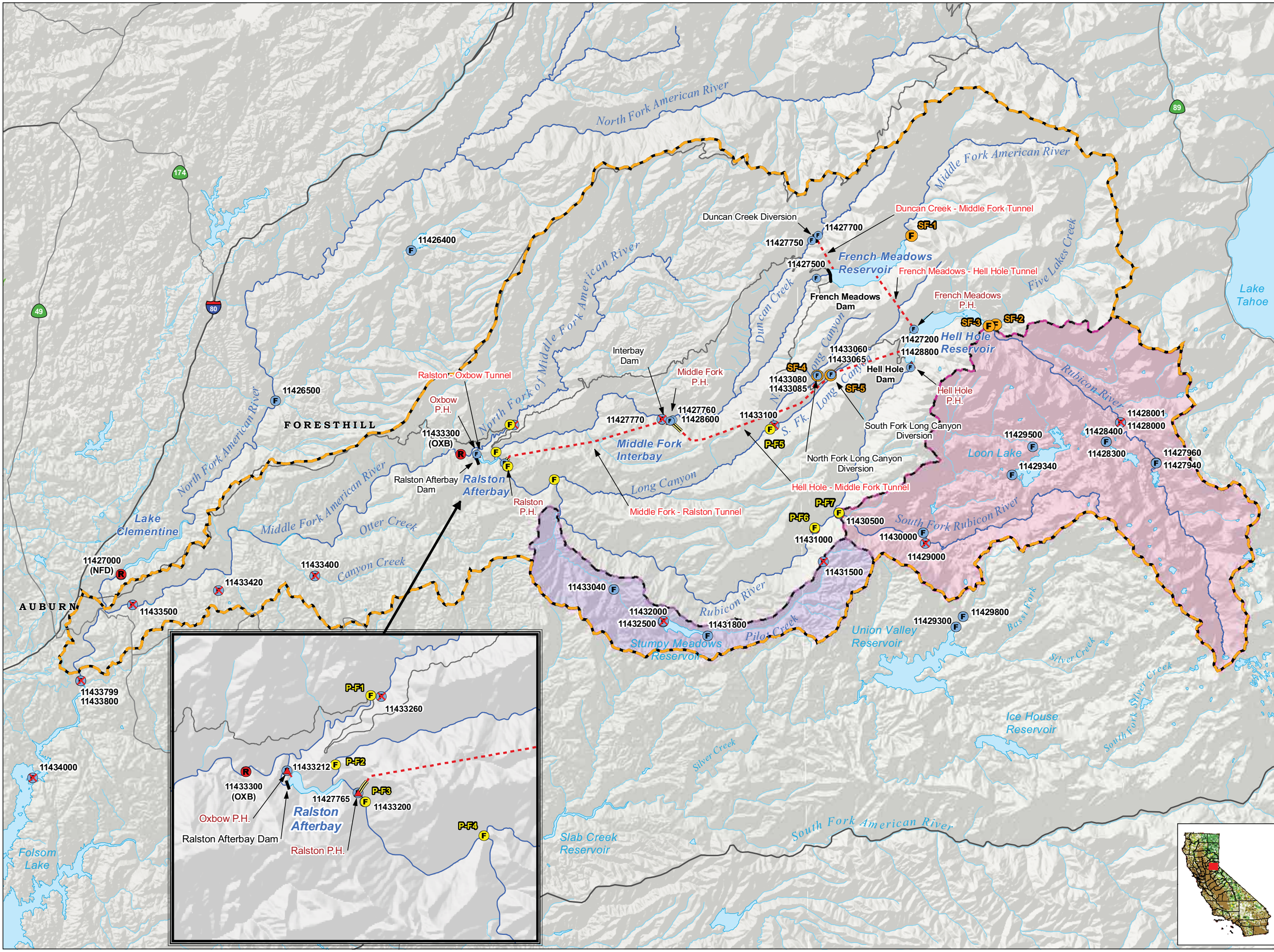
Map REC 4-16

Mining Claims along Bypass and Peaking Reaches

0 1 2 3 Miles

Projection: CA State Plane, Zone 2
Datum: NAD 83

Date: 5/26/10



Project Facilities

- ▲ Powerhouse
- Dam
- Tunnel
- Penstock

Transportation

- Major Road
- Minor Road

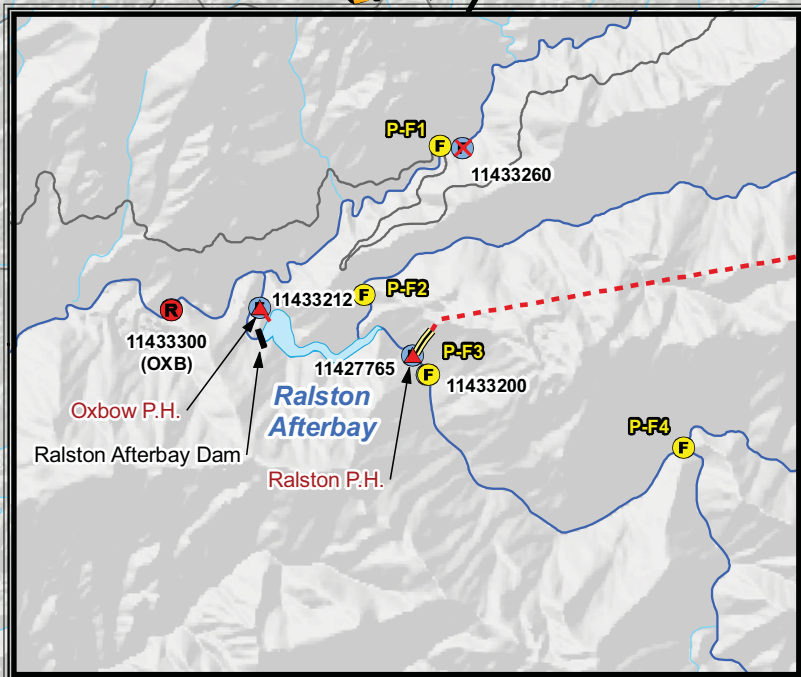
Hydrography

- Watercourse
- Water Body
- Watershed Influenced by SMUD
- Watershed Influenced by GDPUD
- Middle Fork American River Watershed*

*Modified from Calwater Ver. 2.2 to represent drainage above high-water mark of Folsom Lake

Gaging Stations

- F New Flow Gage
- F Supplemental Flow Gage
- F Existing Flow Gage
- X Discontinued Flow Gage
- R Real-time Flow Gage



Placer County Water Agency
Middle Fork American River Project

Map REC 4-17

Gaging Station Locations in the Vicinity of the Middle Fork American River Project

Projection: CA State Plane, Zone 2
Datum: NAD 83