



- Project Facilities**
- ▲ Powerhouse
 - Dam
 - Tunnel
- Transportation**
- Major Highway
 - Minor Highway
- Hydrography**
- Watercourse with river miles (5 mi. increments)
 - Inaccessible Stream Segments
 - ▭ Water Body
- Aquatic Habitat Mapping**
- 2005 - 2006 Mesohabitat and 2007 - 2008 Barrier Mapping
 - 2007 Mapping from 2005 Aerial Imagery
 - Stream Segments with Low Quality 2005 Aerial Imagery
 - Qualitative Stream Surveys
 - 2007 Low Altitude Helicopter Survey




Placer County Water Agency
Middle Fork American River Project

Map AQ 6-1

Fish Passage Barrier Survey Methodology

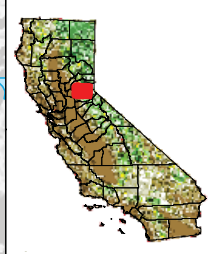


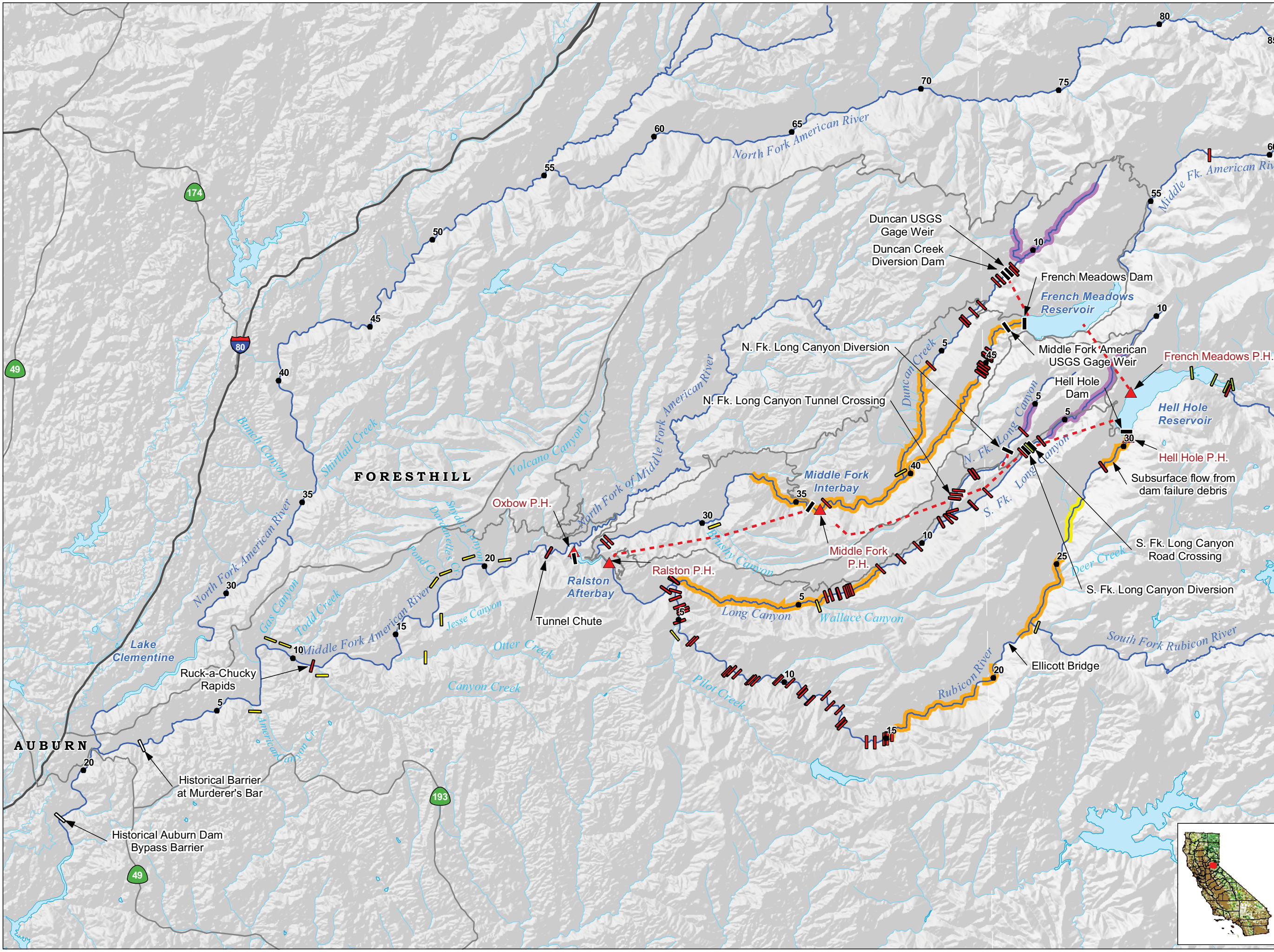


Miles

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

Date: 11/21/08





Project Facilities

- ▲ Powerhouse
- - - Tunnel

Transportation

- Major Highway
- Minor Highway

Hydrography


- Watercourse with river miles (5 mi. increments)
- Water Body

Fish Passage Barrier Assessment*

- Project Infrastructure Barrier
- Reservoir/Diversion Pool Inlet Barrier
- Tributary Confluence Barrier
- Natural Barrier (Both Barriers and Potential Barriers)
- Historical Barrier Now Removed

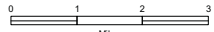
* Includes barriers quantified as impassable and potentially impassable.

- Infrequent Natural Barriers Inferred from Aerial Imagery
- Frequent Natural Barriers Inferred from Aerial Imagery
- Additional Barriers Identified During Qualitative Stream Surveys



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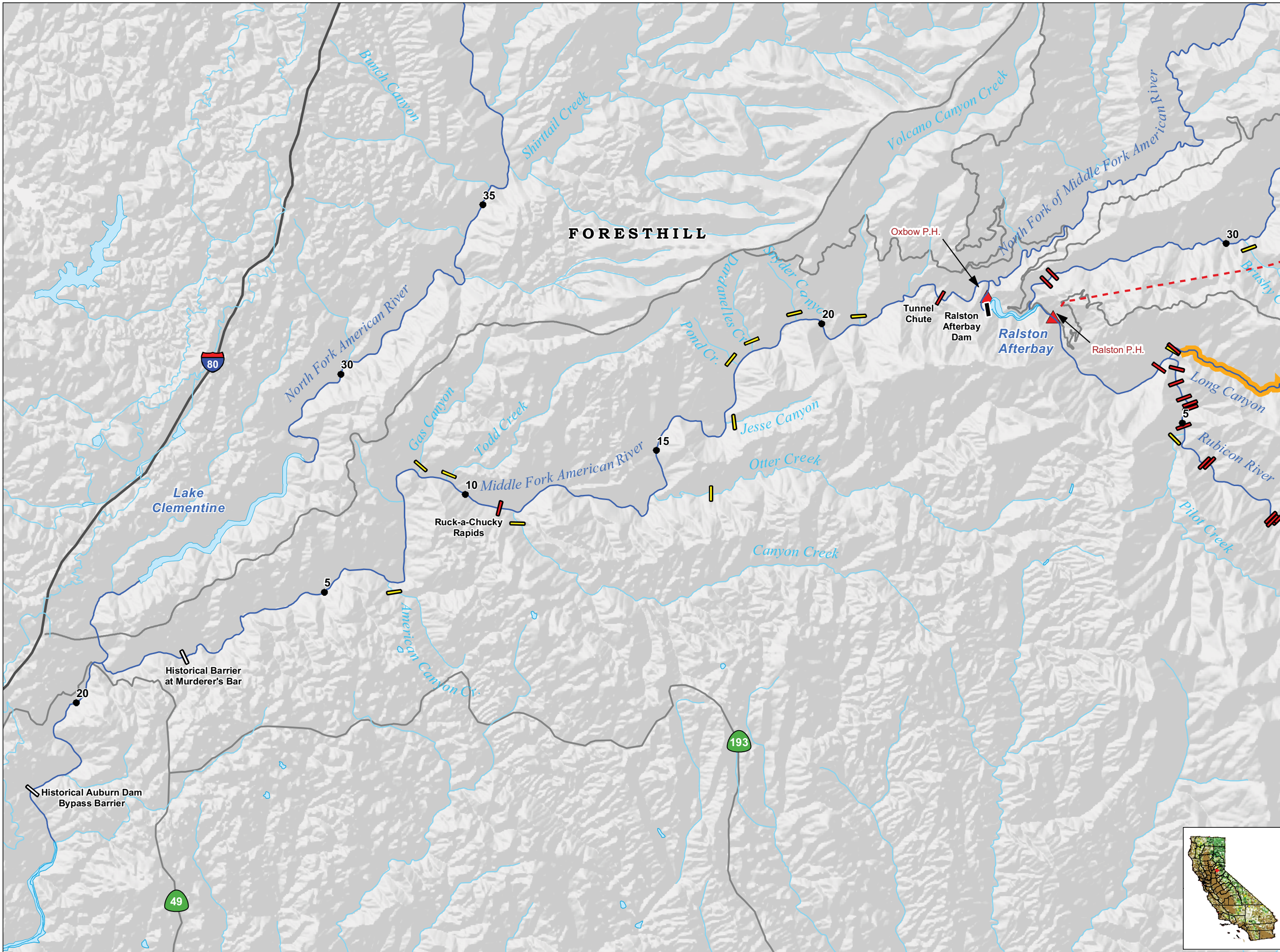
Map AQ 6-2
Fish Passage Barrier Locations and Frequency Overview Map



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

Date: 2/13/2009

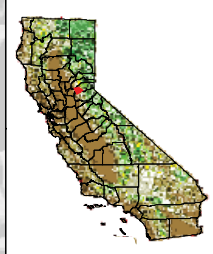




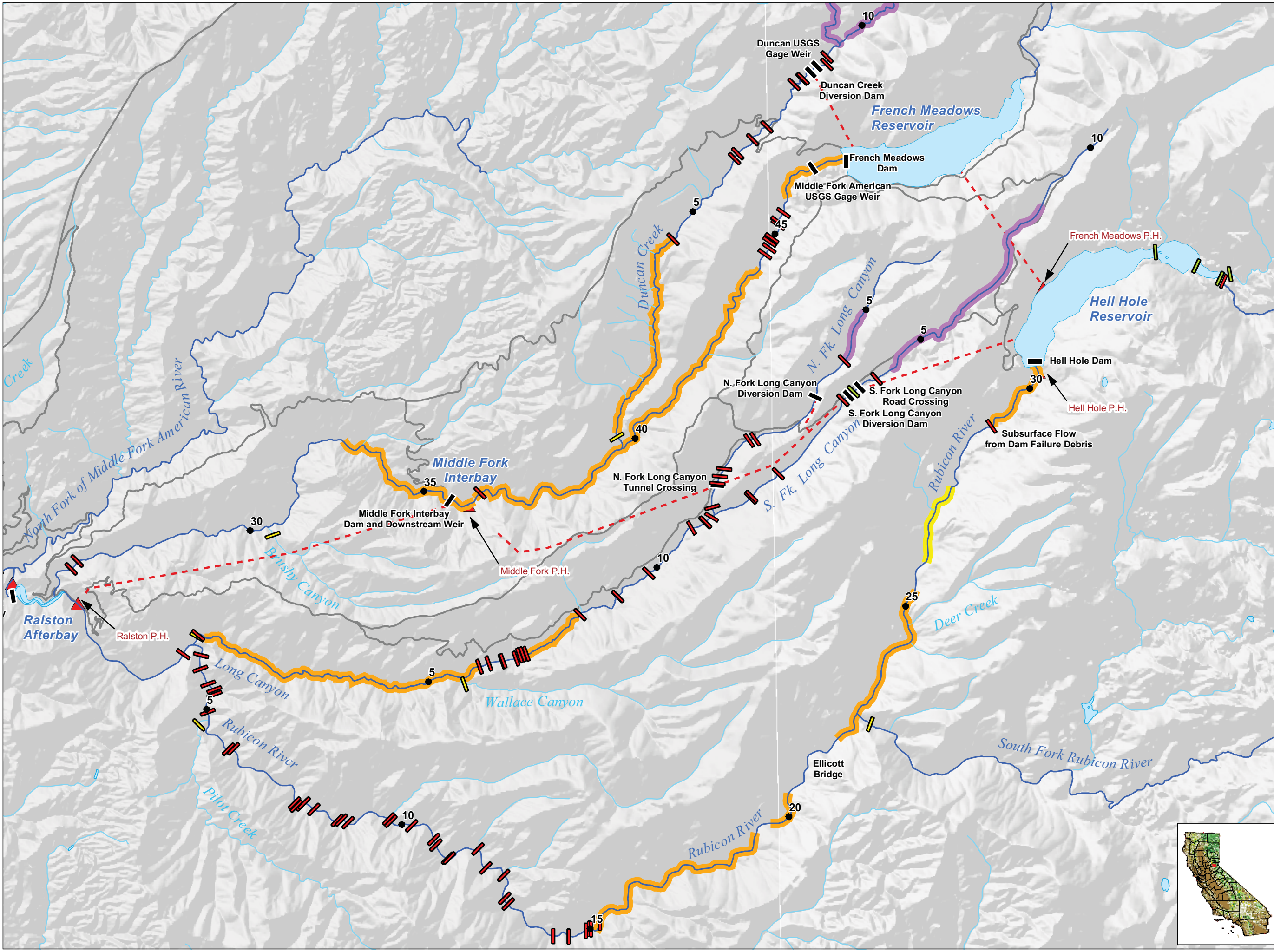
- Project Facilities**
- Powerhouse
 - Tunnel
- Transportation**
- Major Highway
 - Minor Highway
- Hydrography**
- Watercourse with river miles (5 mi. increments)
 - Water Body
- Fish Passage Barrier Assessment***
- Project Infrastructure Barrier
 - Reservoir/Diversion Pool Inlet Barrier
 - Tributary Confluence Barrier
 - Natural Barrier (Both Barriers and Potential Barriers)
 - Historical Barrier Now Removed
- * Includes barriers quantified as impassable and potentially impassable.
- Infrequent Natural Barriers Inferred from Aerial Imagery
 - Frequent Natural Barriers Inferred from Aerial Imagery
 - Additional Barriers Identified During Qualitative Stream Surveys



Placer County Water Agency
 Middle Fork American River Project
Map AQ 6-3
Fish Passage Barrier
Locations and Frequency
 Lower Project Area



0 0.5 1 1.5 2 Miles
 Projection: CA State Plane, Zone 2
 Datum: NAD 83
 Date: 2/10/2009



Project Facilities

▲ Powerhouse

--- Tunnel

Transportation

— Major Highway

— Minor Highway

Hydrography

● Watercourse with river miles (5 mi. increments)

Water Body

Fish Passage Barrier Assessment*

■ Project Infrastructure Barrier

■ Reservoir/Diversion Pool Inlet Barrier

■ Tributary Confluence Barrier

■ Natural Barrier (Both Barriers and Potential Barriers)

□ Historical Barrier Now Removed

* Includes barriers quantified as impassable and potentially impassable.

— Infrequent Natural Barriers Inferred from Aerial Imagery

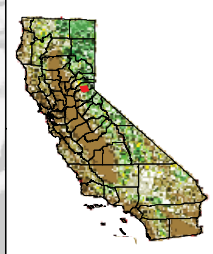
— Frequent Natural Barriers Inferred from Aerial Imagery

— Additional Barriers Identified During Qualitative Stream Surveys



Placer County Water Agency
Middle Fork American River Project

Map AQ 6-4
Fish Passage Barrier Locations and Frequency
Upper Project Area



0 0.5 1 1.5 2 Miles
Projection: CA State Plane, Zone 2
Datum: NAD 83

Date: 2/10/2009