

- Project Facilities**
- Dam
 - Tunnel
 - Penstock
- Transportation**
- Major Highway
 - Minor Highway
- Hydrography**
- Watercourse
 - Water Body
- River Stationing**
- 5 Mile
 - 1 Mile
- Study Sites / Reaches**
- 2006 V* Sediment Study Sampling Site
 - 2007 V* Sediment Study Sampling Site

PCWA

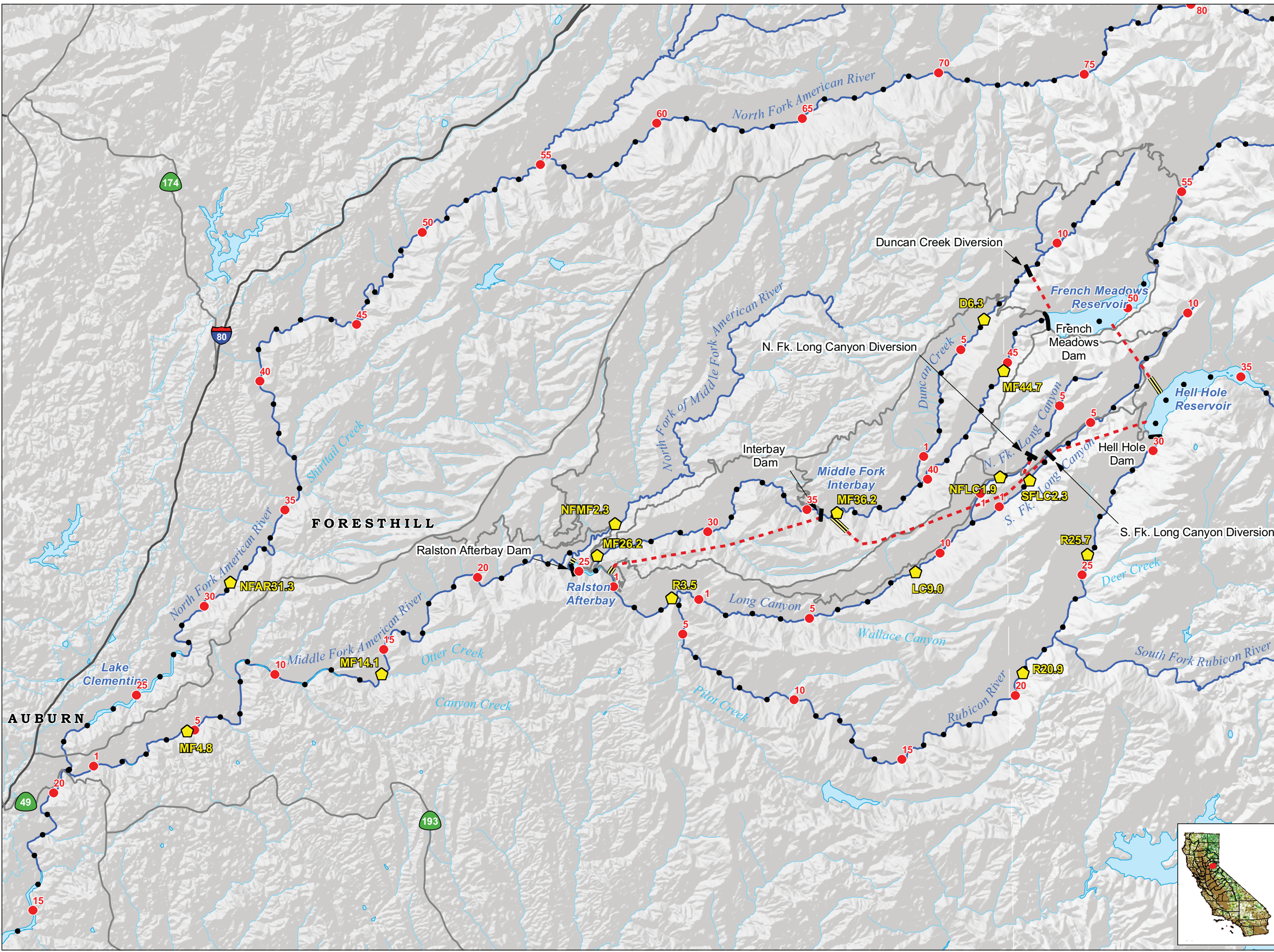
Placer County Water Agency
Middle Fork American River Project

Map AQ 9-1
2006/2007 V* Sediment Study Sampling Sites

0 1 2 3 Miles

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

Date: 9/3/08



Project Facilities

- Dam
- Tunnel
- Penstock

Transportation

- Major Highway
- Minor Highway

Hydrography

- Watercourse
- Water Body

River Stationing

- 5 Mile
- 1 Mile

Study Sites / Reaches

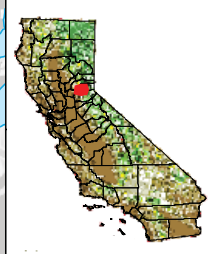
- Bulk Particle Size Sampling Site



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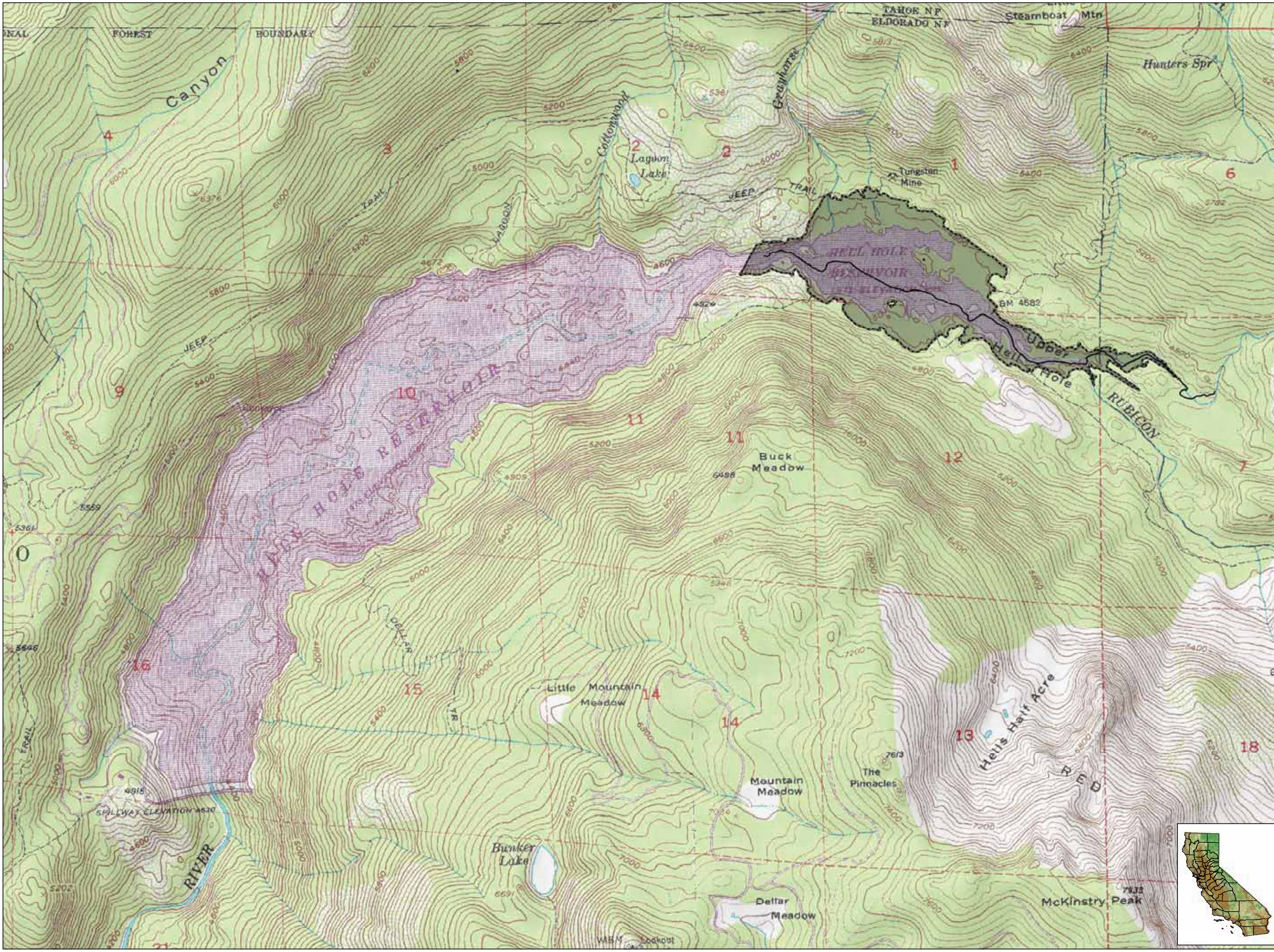
Map AQ 9-2

2007 Bulk Particle Size
Sampling Locations



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

Date: 9/3/08



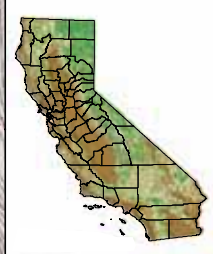
Reservoir Boundary (Max Pool 4630ft elev.)
 — Thalweg



Placer County Water Agency
Middle Fork American River Project

Map AQ 9-3

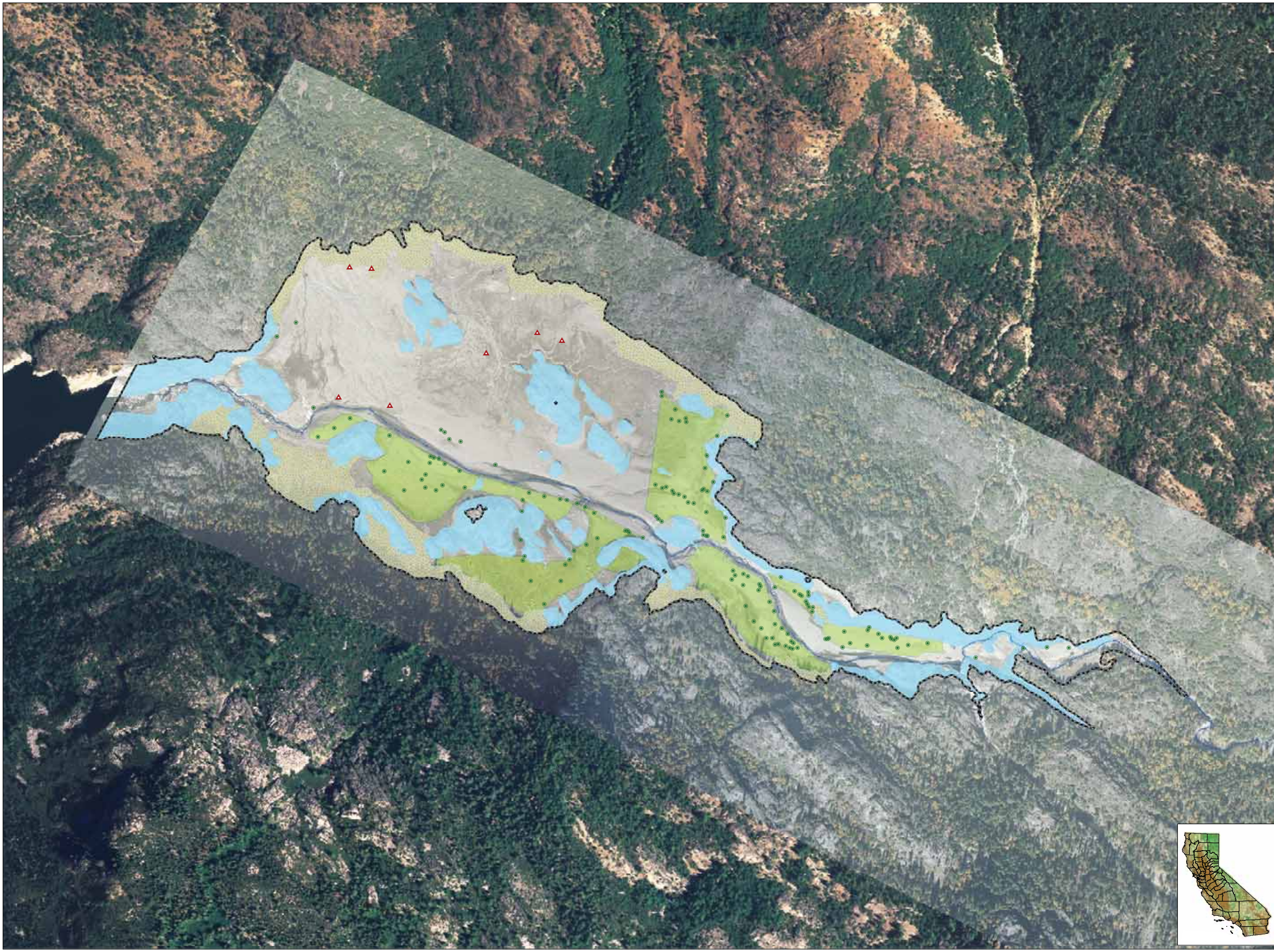
**Hell Hole Reservoir
Sediment Study Area**










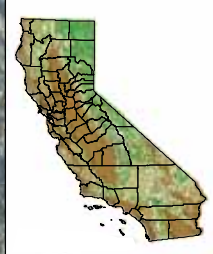
0 1,200 2,400
Feet

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

Date: 9/4/08



-  Reservoir Boundary
(Max Pool. 4630ft elev.)
-  Thalweg
-  Bedrock
-  Steeper Slopes with
Bedrock/Boulder/Cobble
-  Region of Dense Tree Stumps
-  GPS Data Points Indicating
Clusters of Tree Stumps
-  Buried Tree Stump



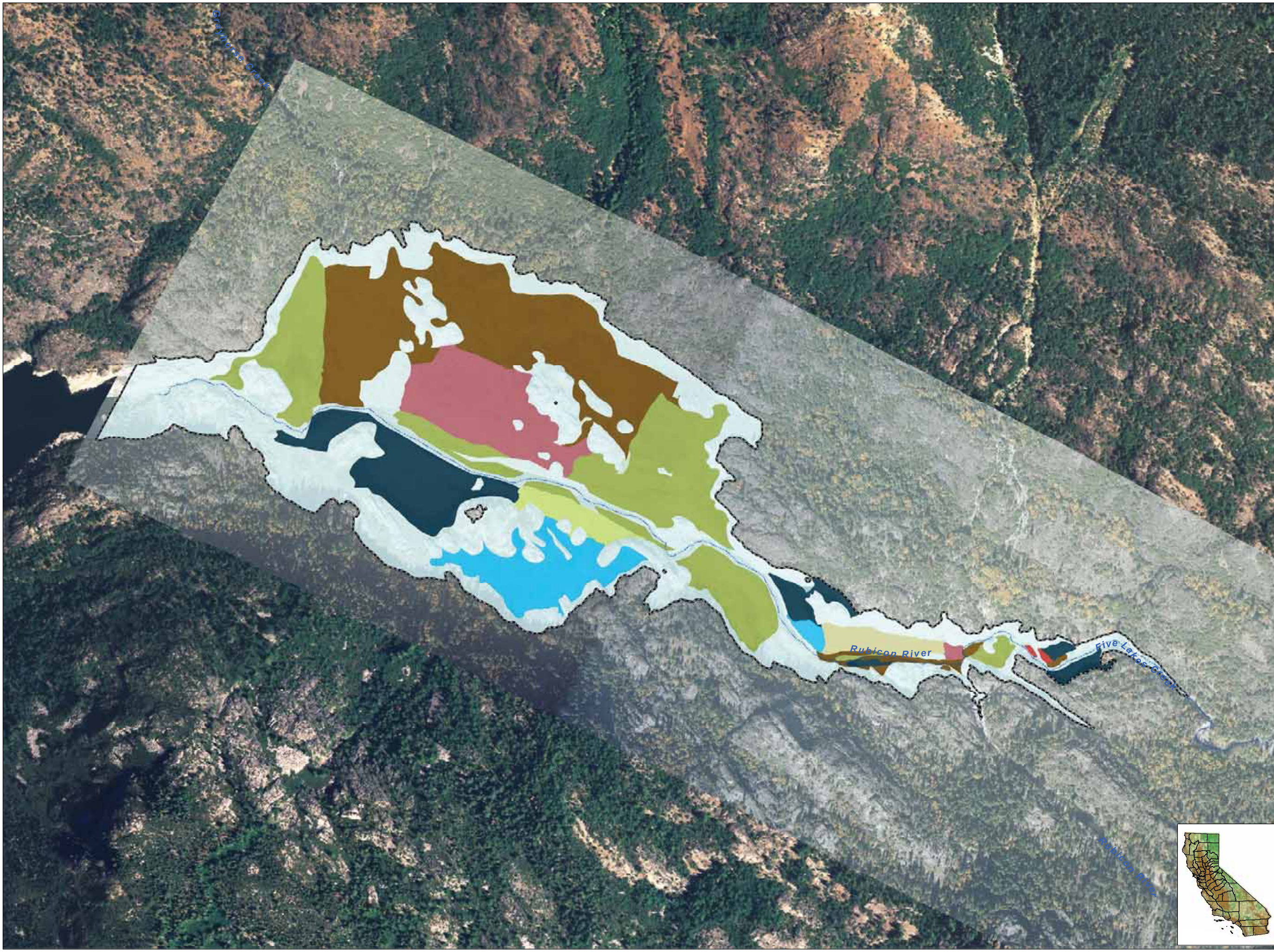
Placer County Water Agency
Middle Fork American River Project
Map AQ 9-4

**Hell Hole Reservoir
Sediment Study
Bedrock and
Cut Tree Stump Regions**



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

Date: 9/4/08

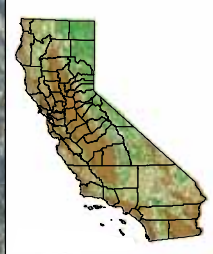



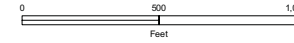
- Reservoir Boundary (Max Pool. 4630ft elev.)
 - Thalweg
- Sediment Aggradation Depth
- 0 ft
 - 0.25 ft
 - 0.5 ft
 - 0.75 ft
 - 1 ft
 - 1.5 ft
 - 2 ft
 - 3 ft
 - 4 ft



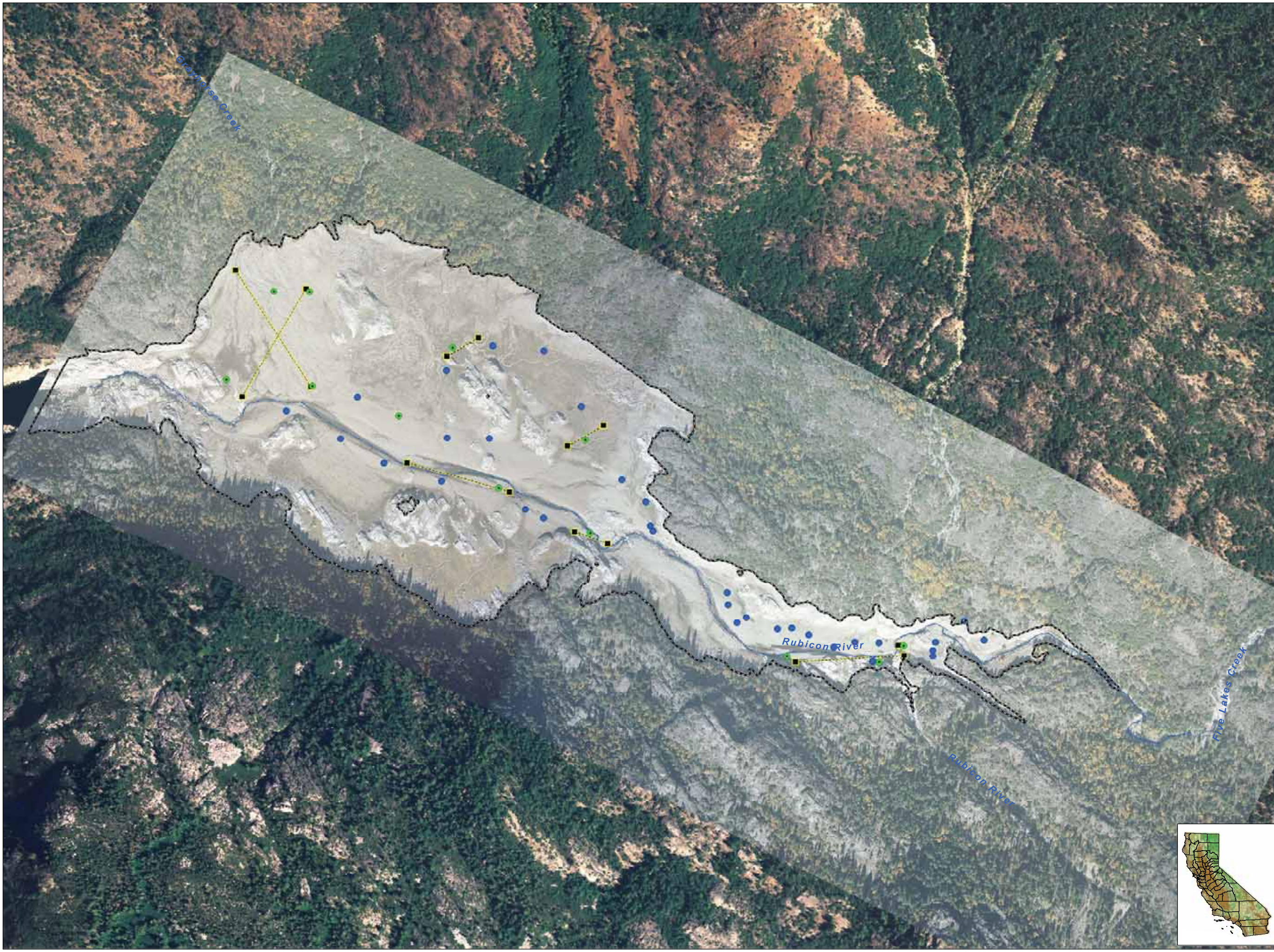
Placer County Water Agency
Middle Fork American River Project
Map AQ 9-5






**Hell Hole Reservoir
Sediment Deposition Depth**



Projection: CA State Plane, Zone 2
 Datum: NAD 83
 Date: 9/4/08



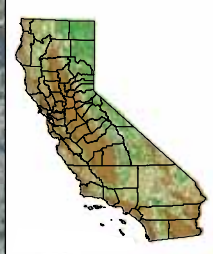
-  Reservoir Boundary
(Max Pool 4630ft elev.)
-  Thalweg
-  Pit Sample
-  Bulk Sample Location
-  Pebble Count Sample Location



Placer County Water Agency
Middle Fork American River Project

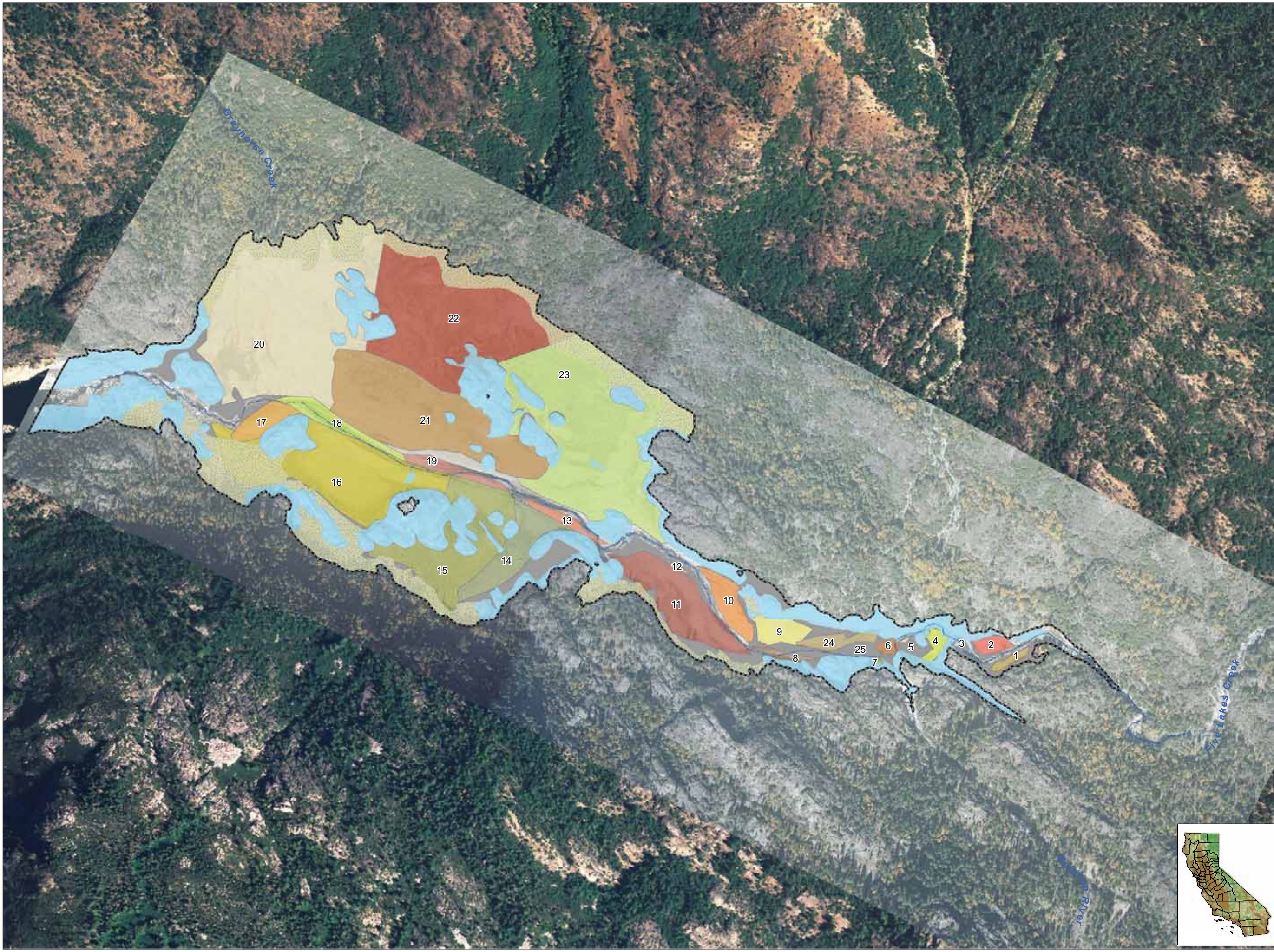
Map AQ 9-6






























Particle Size Sampling Locations



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

Date: 9/4/08

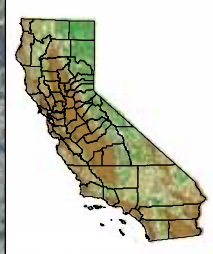



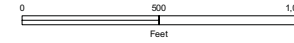
-  Reservoir Boundary (Max Pool 4630ft elev.)
-  Thalweg
-  Particle Size Region 1
-  Particle Size Region 2
-  Particle Size Region 3
-  Particle Size Region 4
-  Particle Size Region 5
-  Particle Size Region 6
-  Particle Size Region 7
-  Particle Size Region 8
-  Particle Size Region 9
-  Particle Size Region 10
-  Particle Size Region 11
-  Particle Size Region 12
-  Particle Size Region 13
-  Particle Size Region 14
-  Particle Size Region 15
-  Particle Size Region 16
-  Particle Size Region 17
-  Particle Size Region 18
-  Particle Size Region 19
-  Particle Size Region 20
-  Particle Size Region 21
-  Particle Size Region 22
-  Particle Size Region 23
-  Particle Size Region 24
-  Particle Size Region 25
-  Bedrock
-  Steeper Slopes with Bedrock/Boulder/Cobble



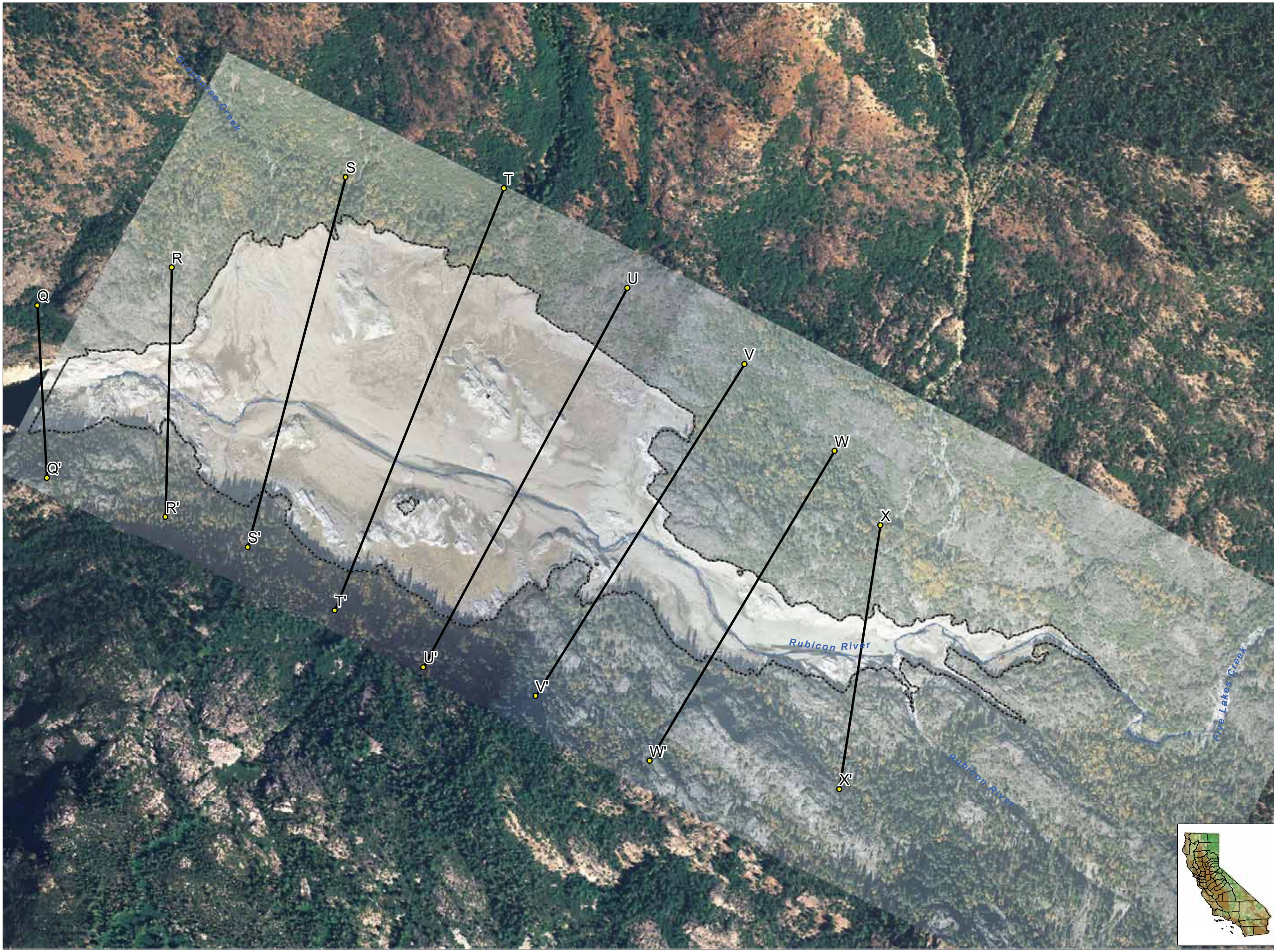
Placer County Water Agency
Middle Fork American River Project

Map AQ 9-7
Distribution of Reservoir Particle Size Regions



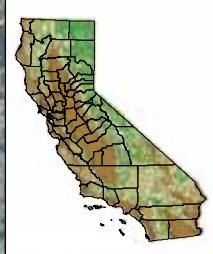
Projection: CA State Plane, Zone 2
 Datum: NAD 83
 Date: 9/4/08



- Reservoir Boundary (Max Pool 4630ft elev.)
- Thalweg
- Cross Section



Placer County Water Agency
 Middle Fork American River Project
 Map AQ 9-8
**Cross-Section Locations
 Comparing
 Pre- and Post- Dam Elevations**



Projection: CA State Plane, Zone 2
 Datum: NAD 83
 Date: 9/4/08