







Hydrography

-  Normal Maximum Operating Water Surface (4630')
-  Proposed Maximum Operating Water Surface (4636')
-  100' Study Area Buffer

Riparian Study Data*

-  Transect Locations

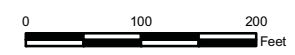
* Refer to Table H-1 for detailed descriptions of vegetation present across each transect.



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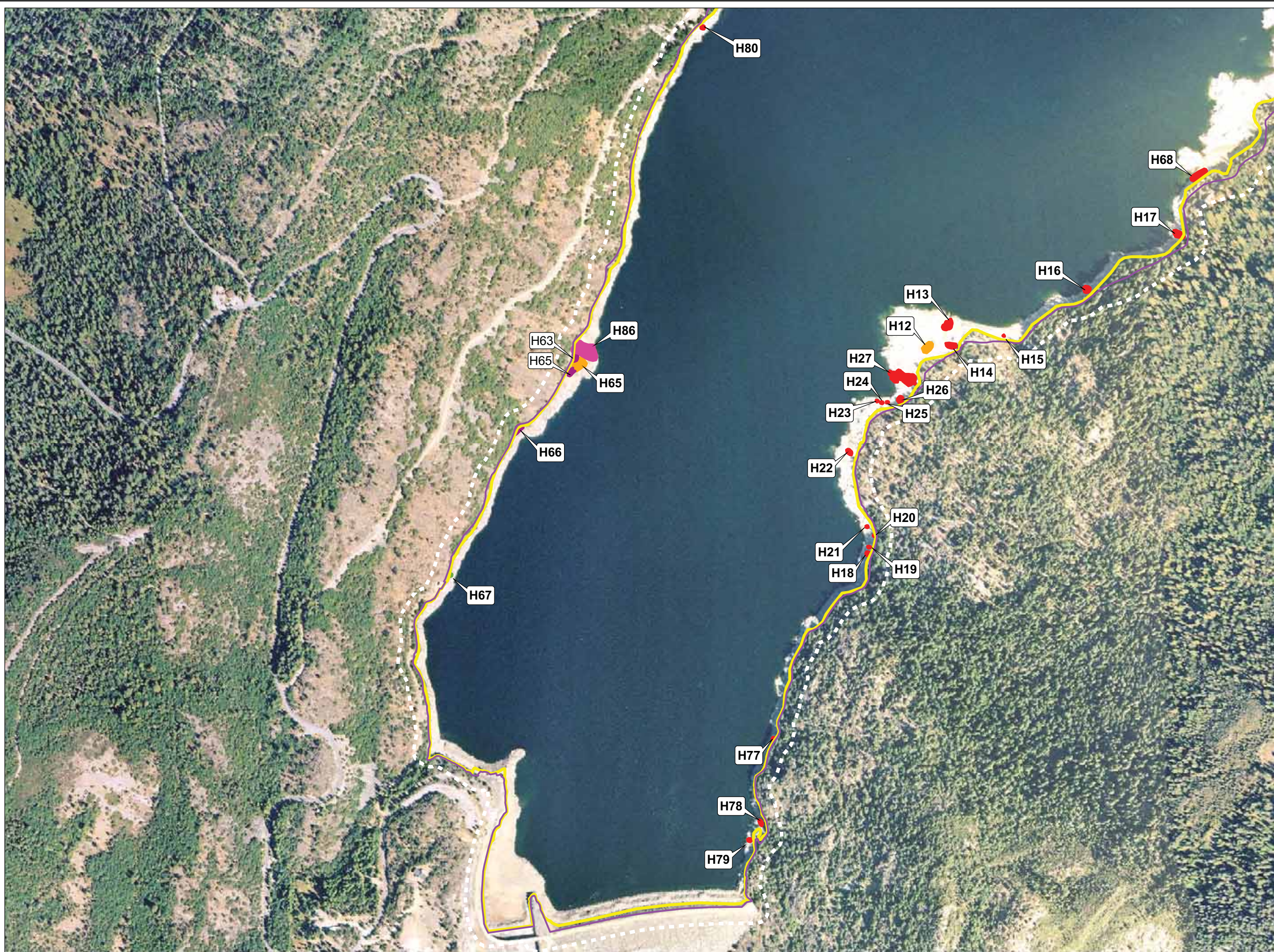
Map I-1

**Riparian Survey Transects
along Five Lakes Creek**



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

Date: 4/1/10



Hydrography

- Normal Maximum Operating Water Surface (4630')
- Proposed Maximum Operating Water Surface (4636')
- 100' Study Area Buffer


Vegetation Species Codes*

Dominant Species:

- Alder
- Alder and Black cottonwood
- Alder and Willow
- Alder, Willow and Black cottonwood
- Black cottonwood
- Ponderosa pine
- Willow
- Willow and Black cottonwood
- Willow and California wild grape
- Willow, Black cottonwood and California wild grape
- California wild grape
- None**


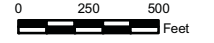
* Refer to Table H-1 for detailed descriptions of vegetation present within each polygon

** For dominant substrates, see Sheet 3a



Placer County Water Agency
Middle Fork American River Project
Map I-2

**Riparian Vegetation Composition
Associated with the Hell Hole Reservoir
Seasonal Storage Increase Betterment
Sheet 1**

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

Date: 4/1/10



Hydrography

- Normal Maximum Operating Water Surface (4630')
- Proposed Maximum Operating Water Surface (4636')
- 100' Study Area Buffer


Vegetation Species Codes*

Dominant Species:

- Alder
- Alder and Black cottonwood
- Alder and Willow
- Alder, Willow and Black cottonwood
- Black cottonwood
- Ponderosa pine
- Willow
- Willow and Black cottonwood
- Willow and California wild grape
- Willow, Black cottonwood and California wild grape
- California wild grape
- None**


* Refer to Table H-1 for detailed descriptions of vegetation present within each polygon

** For dominant substrates, see Sheet 3a

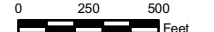


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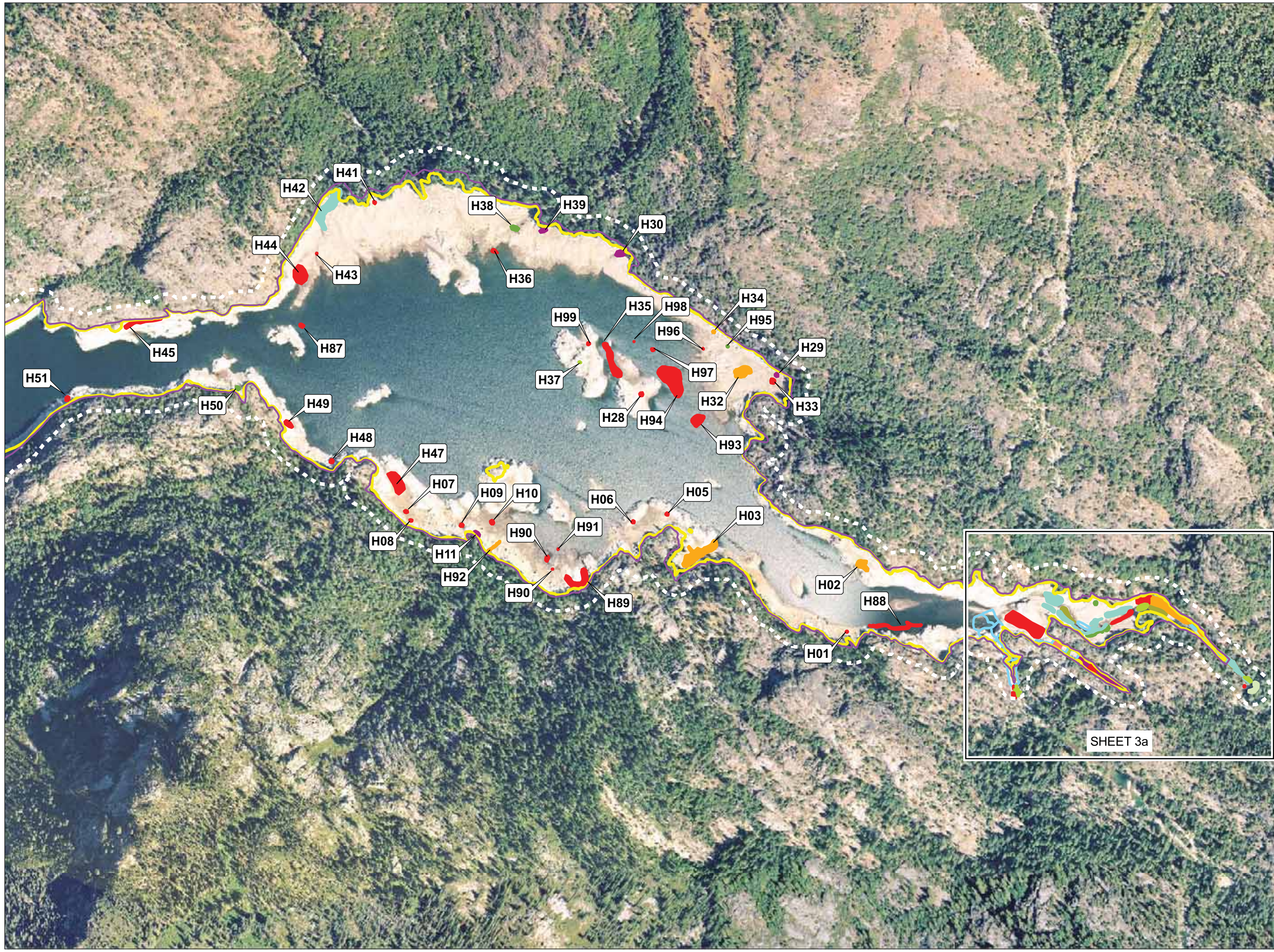
Map I-2
Riparian Vegetation Composition
Associated with the Hell Hole Reservoir
Seasonal Storage Increase Betterment
Sheet 2



Date: 4/1/10



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



Hydrography

- Normal Maximum Operating Water Surface (4630')
- Proposed Maximum Operating Water Surface (4636')
- 100' Study Area Buffer

Vegetation Species Codes*

Dominant Species:

- Alder
- Alder and Black cottonwood
- Alder and Willow
- Alder, Willow and Black cottonwood
- Black cottonwood
- Ponderosa pine
- Willow
- Willow and Black cottonwood
- Willow and California wild grape
- Willow, Black cottonwood and California wild grape
- California wild grape
- None**

* Refer to Table H-1 for detailed descriptions of vegetation present within each polygon

** For dominant substrates, see Sheet 3a

PCWA

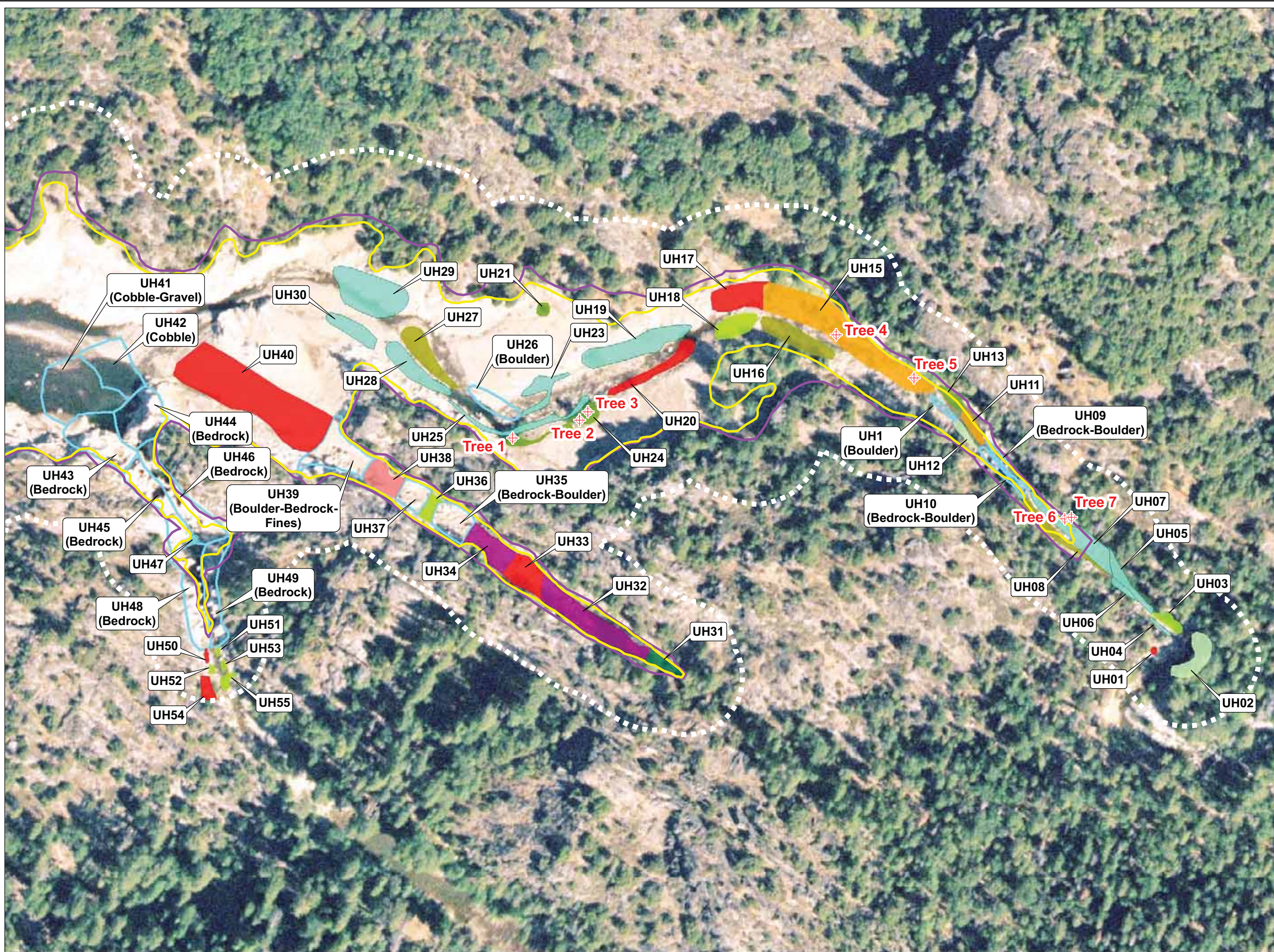
Placer County Water Agency
Middle Fork American River Project

Map I-2

Riparian Vegetation Composition
Associated with the Hell Hole Reservoir
Seasonal Storage Increase Betterment
Sheet 3

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

Date: 4/1/10



Hydrography

- Normal Maximum Operating Water Surface (4630')
- Proposed Maximum Operating Water Surface (4636')
- 100' Study Area Buffer

Vegetation Species Codes*

Dominant Species:

- Alder
- Alder and Black cottonwood
- Alder and Willow
- Alder, Willow and Black cottonwood
- Black cottonwood
- Ponderosa pine
- Willow
- Willow and Black cottonwood
- Willow and California wild grape
- Willow, Black cottonwood and California wild grape
- California wild grape
- None

Tree Core Data

- Cored Tree Locations

* Refer to Table H-1 for detailed descriptions of vegetation present within each polygon

PCWA
Placer County Water Agency
Middle Fork American River Project
Map I-2
Riparian Vegetation Composition
Associated with the Hell Hole Reservoir
Seasonal Storage Increase Betterment
Sheet 3a

0 50 100 200 Feet
Projection: CA State Plane, Zone 2
Datum: NAD 83
Date: 4/1/10



Potential Project Betterments

- Access Road
- Control Building
- Powerline
- Crest Gates
- Construction Staging and/or Work Area

PCWA Facilities and Features

- Dam
- Ancillary and Other Facilities
- Powerhouse
- Gage
- Penstock
- Tunnel
- Gate
- Access Point
- Public Safety Fence
- FERC Boundary

Project Power and Communication Lines:

- Communication
- Power
- Power (underground)
- Communication/Power
- Communication/Power (underground)

Transportation

- Non-Project General Access Road
- Project Road
- Project Trail
- Recreation Access Road
- Other road

Project Recreation Facilities

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

Other Facilities

PG & E Transmission Lines:

- 230 kV
- 60 kV

Riparian Data

- Riparian Betterments Survey Areas
- Riparian Vegetation

Hell Hole Dam Spillway Crest Gates Construction Work Area

Hell Hole Dam Spillway Crest Gates Control Building Construction Work Area

Hell Hole Dam Spillway Crest Gates Construction Road

Hell Hole Dam Spillway Crest Gates and Control Building Construction Staging Area

Hell Hole Dam Spillway Crest Gates Control Building

Hell Hole Dam Spillway Crest Gates Control Building Powerline

Hell Hole Dam Spillway Crest Gates Control Building Powerline Construction Staging Area

Hell Hole Dam Spillway Crest Gates Control Building Powerline Construction Work Area



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Middle Fork American River Project
Map I-3
Hell Hole Reservoir
Seasonal Storage Increase:
Riparian Vegetation Mapped
within the Buffer Area

0 50 100 200 300 Feet
Projection: Ca. Stateplane, Zone 2
Datum: NAD 83
Date: 4/1/10