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.

PCWA

Placer County Water Agency
Middle Fork American River Project

Map I-1

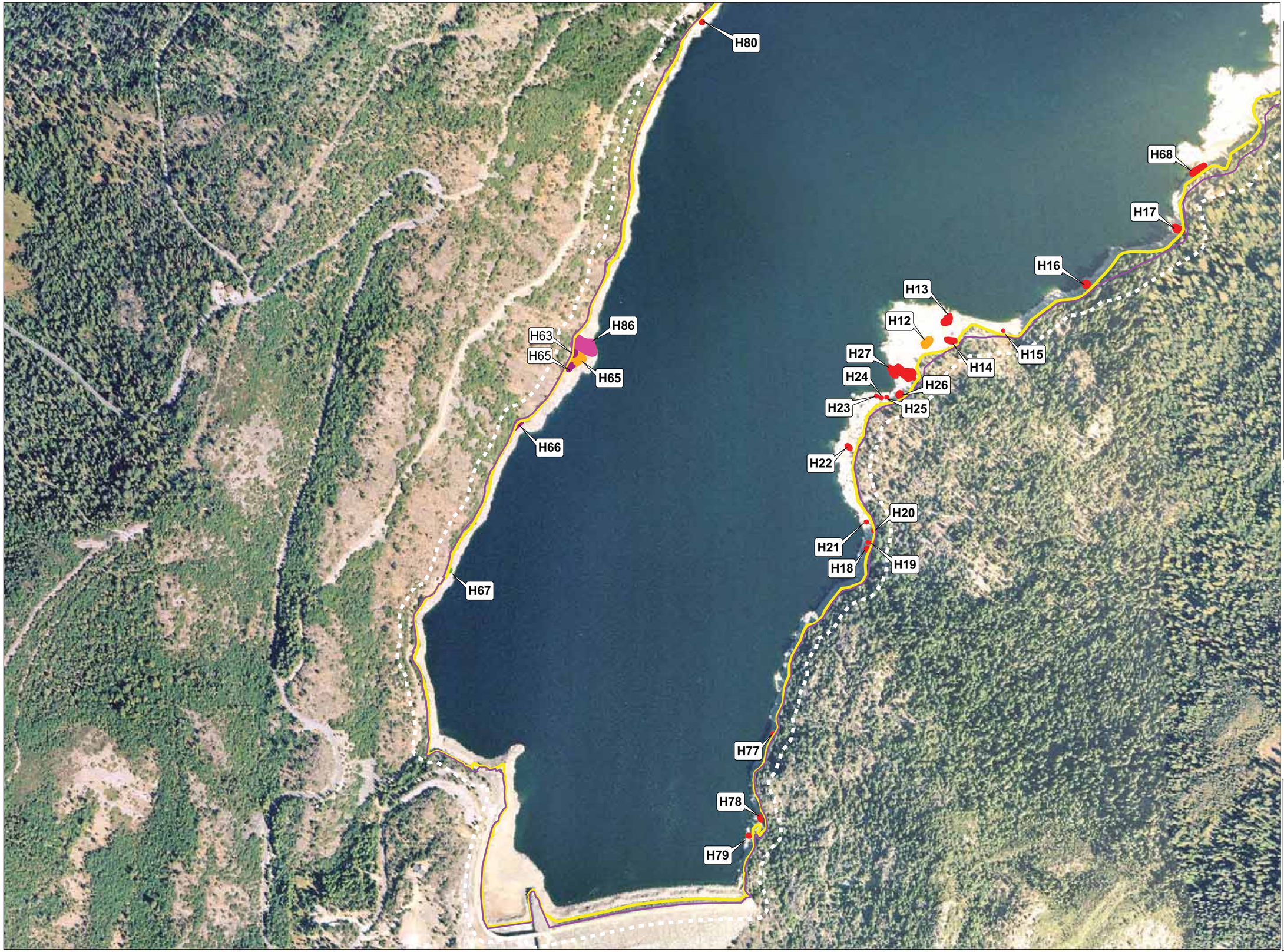
Riparian Survey Transects along Five Lakes Creek

Date: 4/1/10

0 100 200 Feet

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

Z:\GIS\Entrix\3116501\map\RiparianMaps\AQ10 Maps\PCWA_RiparianTransects_5LakesCreek_17i11i_01.mxd



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 1

N W E S

Date: 4/1/10

0 250 500 Feet

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

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Hydrography

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

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- 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 2

0 250 500 Feet

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

Date: 4/1/10

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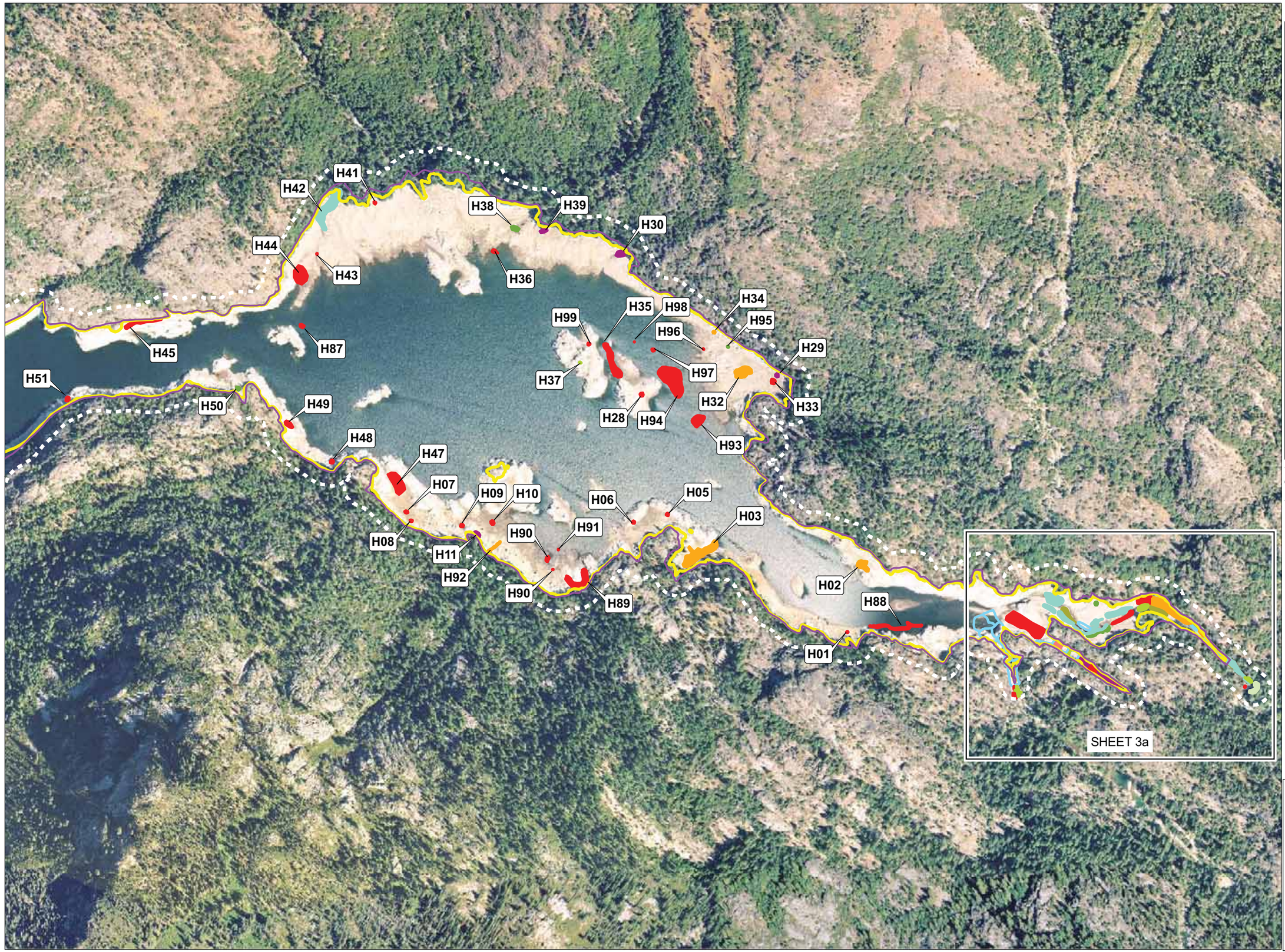

Hydrography

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

Vegetation Species Codes*

Dominant Species:

- Alder
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- 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

0 250 500 Feet

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

Date: 4/1/10

Z:\GIS\Entrix\3116501\map\RiparianMaps\AQ10 Maps\PCWA_HellHole_RiparianComp_WSE_Betterments_11i17i_01.mxd

UH41 (Cobble-Gravel)
UH42 (Cobble)
UH30
UH29
UH21
UH17
UH15
UH18
UH19
UH27
UH23
UH26 (Boulder)
UH40
UH28
UH16
Tree 4
Tree 5
UH13
UH11
Tree 3
Tree 2
Tree 1
UH25
UH20
UH24
UH1 (Boulder)
UH09 (Bedrock-Boulder)
UH12
UH44 (Bedrock)
UH46 (Bedrock)
UH38
UH43 (Bedrock)
UH36
UH35 (Bedrock-Boulder)
UH39 (Boulder-Bedrock-Fines)
UH10 (Bedrock-Boulder)
Tree 7
UH07
Tree 6
UH37
UH45 (Bedrock)
UH33
UH05
UH47
UH34
UH32
UH08
UH03
UH49 (Bedrock)
UH48 (Bedrock)
UH06
UH31
UH51
UH04
UH50
UH53
UH01
UH52
UH02
UH55
UH54

Hydrography

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

Vegetation Species Codes*

Dominant Species:

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- 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

Date: 4/1/10

0 50 100 200 Feet

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

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Potential Project Betterments

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

Hell Hole Dam Spillway Crest Gates Construction Work Area

Hell Hole Dam Spillway Crest Gates

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 Construction Work 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

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

PCWA

Placer County Water Agency
Middle Fork American River Project

Map I-3

Hell Hole Reservoir Saesonal Storage Increase: Riparian Vegetation Mapped within the Buffer Area

N W E S

Date: 4/1/10

0 50 100 200 300 Feet

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

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