State of California
The Resources Agency
Department of Water Resources

GIS Fish Habitat Components
SP-F3.1 Task 1C
SP-F3.2 Task 4A

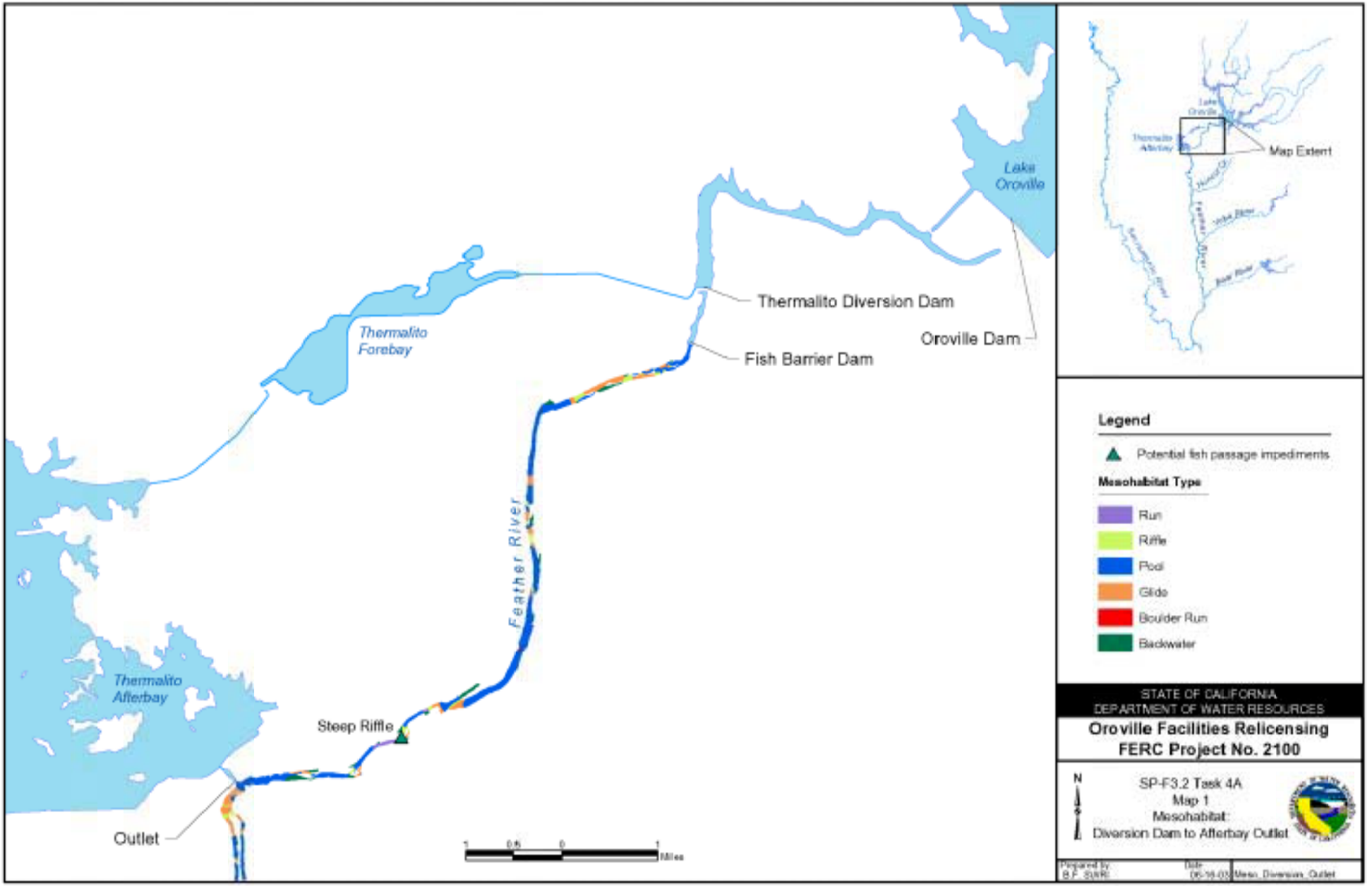
Oroville Facilities Relicensing
FERC Project No. 2100

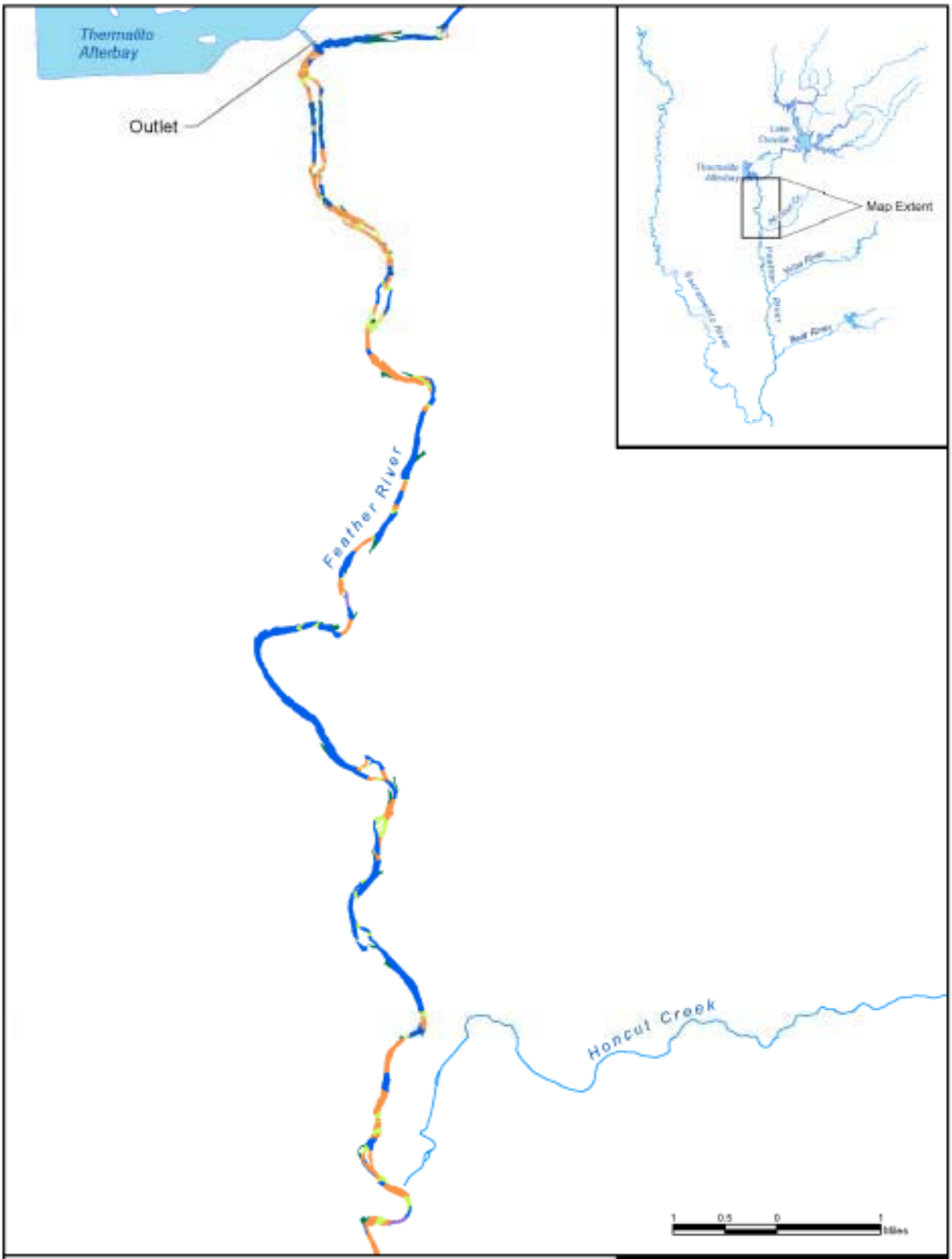
JUNE 2003

GRAY DAVIS
Governor
State of California

MARY D. NICHOLS
Secretary for Resources
The Resources Agency

THOMAS M. HANNIGAN
Director
Department of Water Resources


Lake Oroville
Thermalito Diversion Dam
Oroville Dam
Thermalito Forebay
Fish Barrier Dam
Feather River
Thermalito Afterbay
Steep Riffle
Outlet
Miles
Map Extent
Legend
Potential fish passage impediments
Mesohabitat Type
Run
Riffle
Pool
Glide
Boulder Run
Backwater
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
Oroville Facilities Relicensing
FERC Project No. 2100
N
SP-F3.2 Task 4A
Map 1
Mesohabitat:
Diversion Dam to Afterbay Outlet
Prepared by:
Date:
Meso_Diversion_Outlet



Mesohabitat Type

Run | Pool | Boulder Run
Riffle | Glide | Backwater

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

Oroville Facilities Relicensing
FERC Project No. 2100

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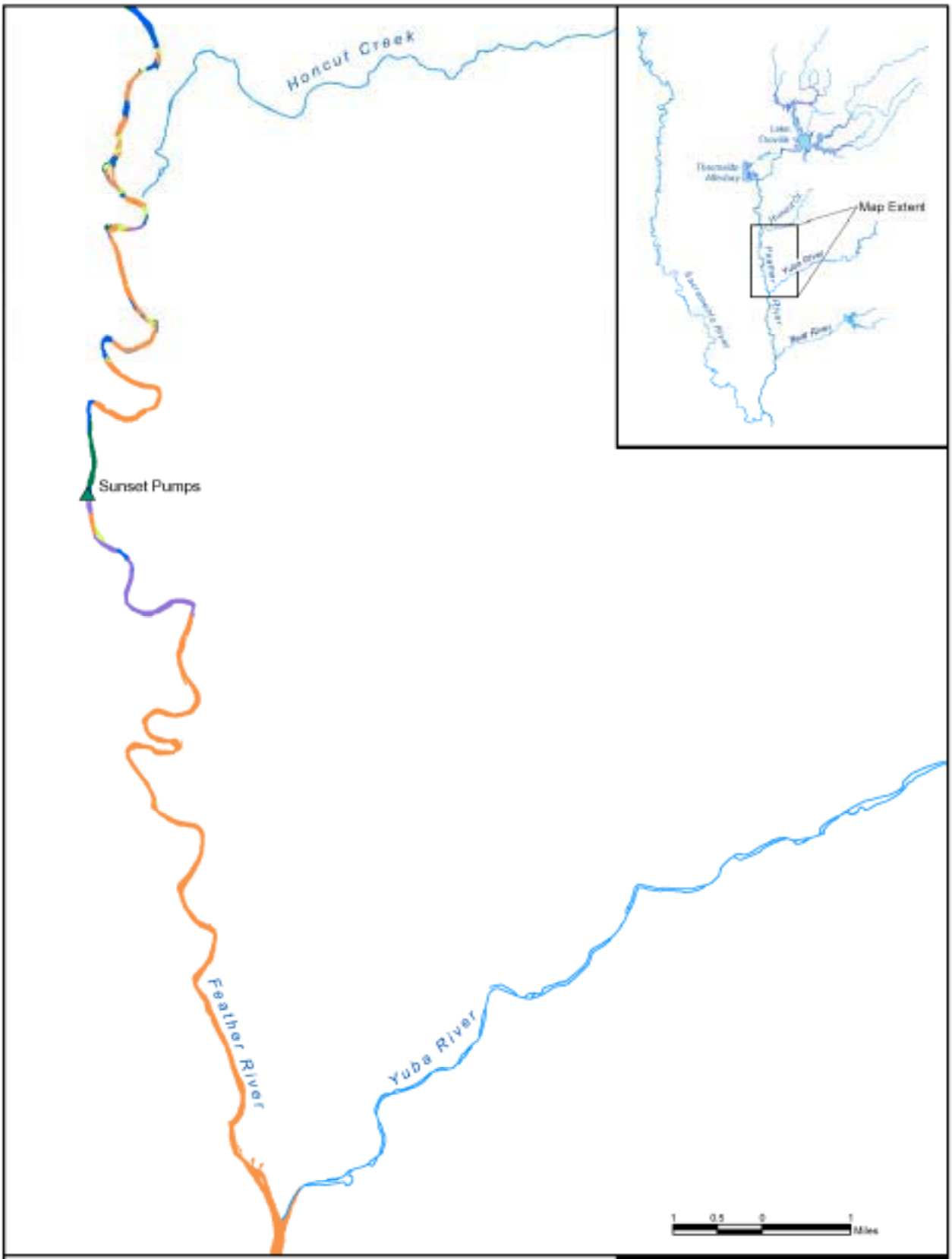
SP-F3.2 Task 4A
Map 2
Mesohabitat:
Afterbay Outlet to Honcut Creek

Prepared by: B.F. SWRI | Date: 08-16-05 | Meso_Outlet_Honcut



Legend

- Passage Impediments

Mesohabitat Type

- Run
- Pool
- Boulder Run
- Riffle
- Glide
- Backwater

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DEPARTMENT OF WATER RESOURCES

Oroville Facilities Relicensing
FERC Project No. 2100

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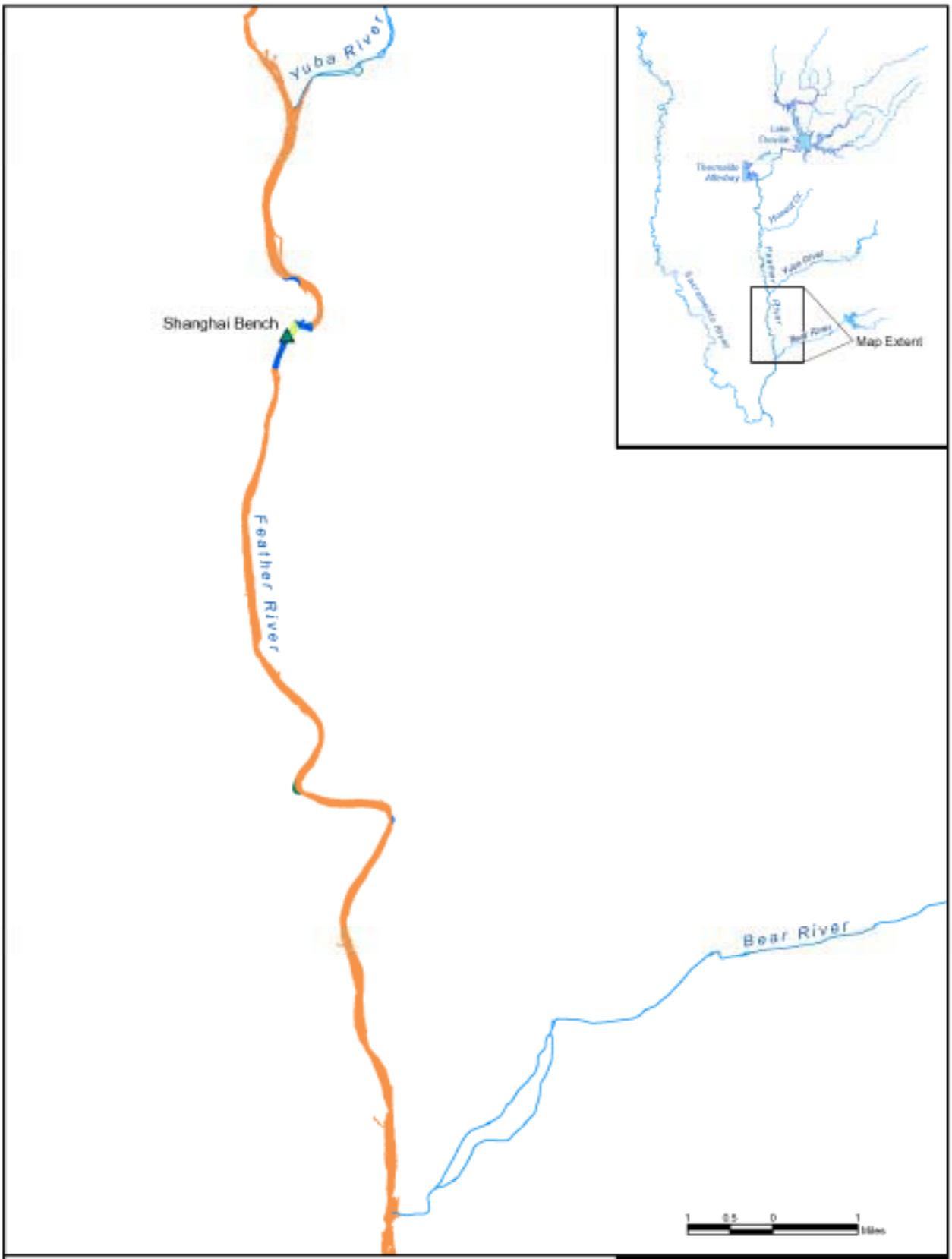
SP-F3.2 Task 4A
Map 3
Mesohabitat:
Honcut Creek to Yuba River

Prepared by:	Date:	
B.F. SWRI	06-18-03	Meso_Honcut_Yuba



Legend

- Passage Impediments

Mesohabitat Type

- Run
- Pool
- Boulder Run
- Riffle
- Glide
- Backwater

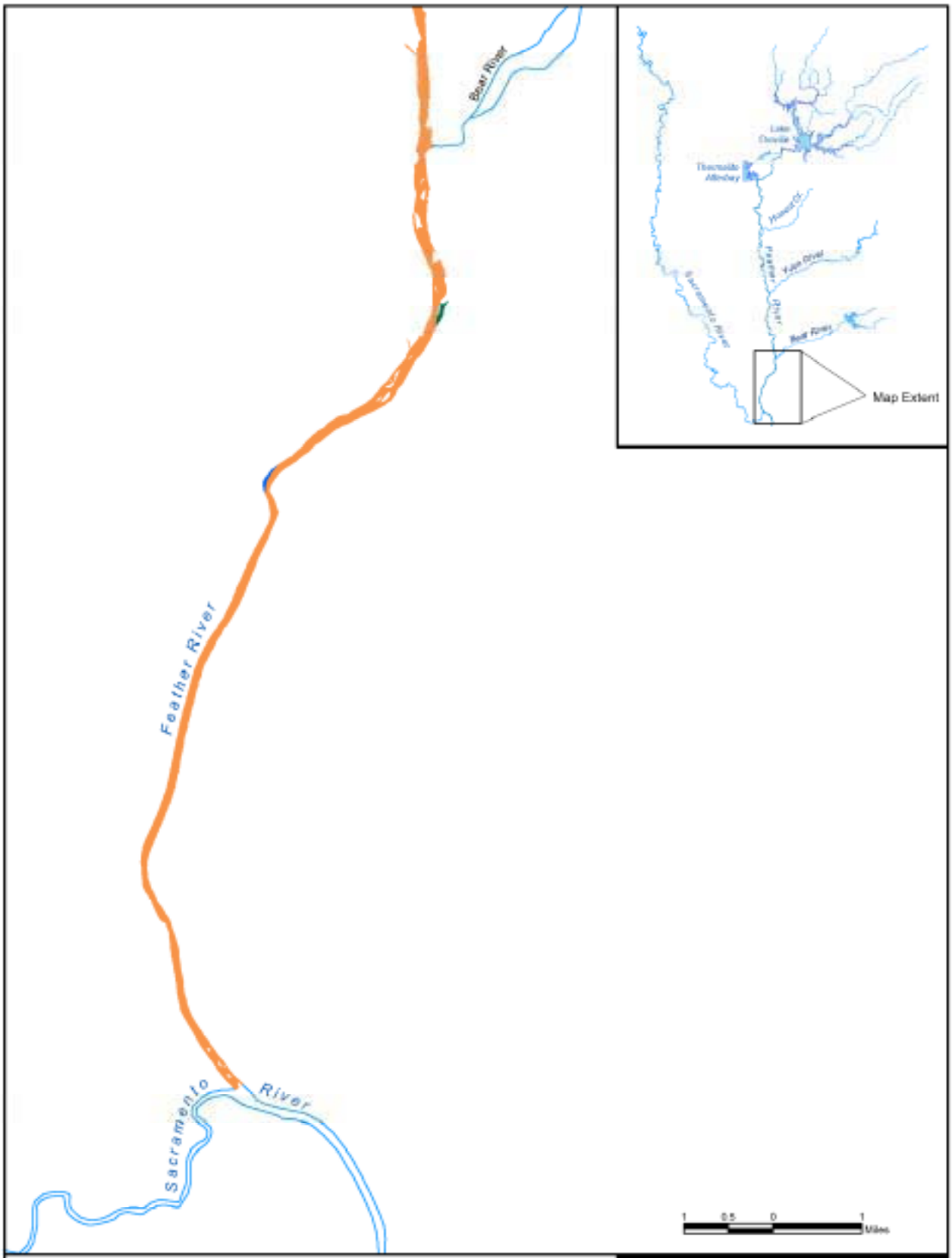
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

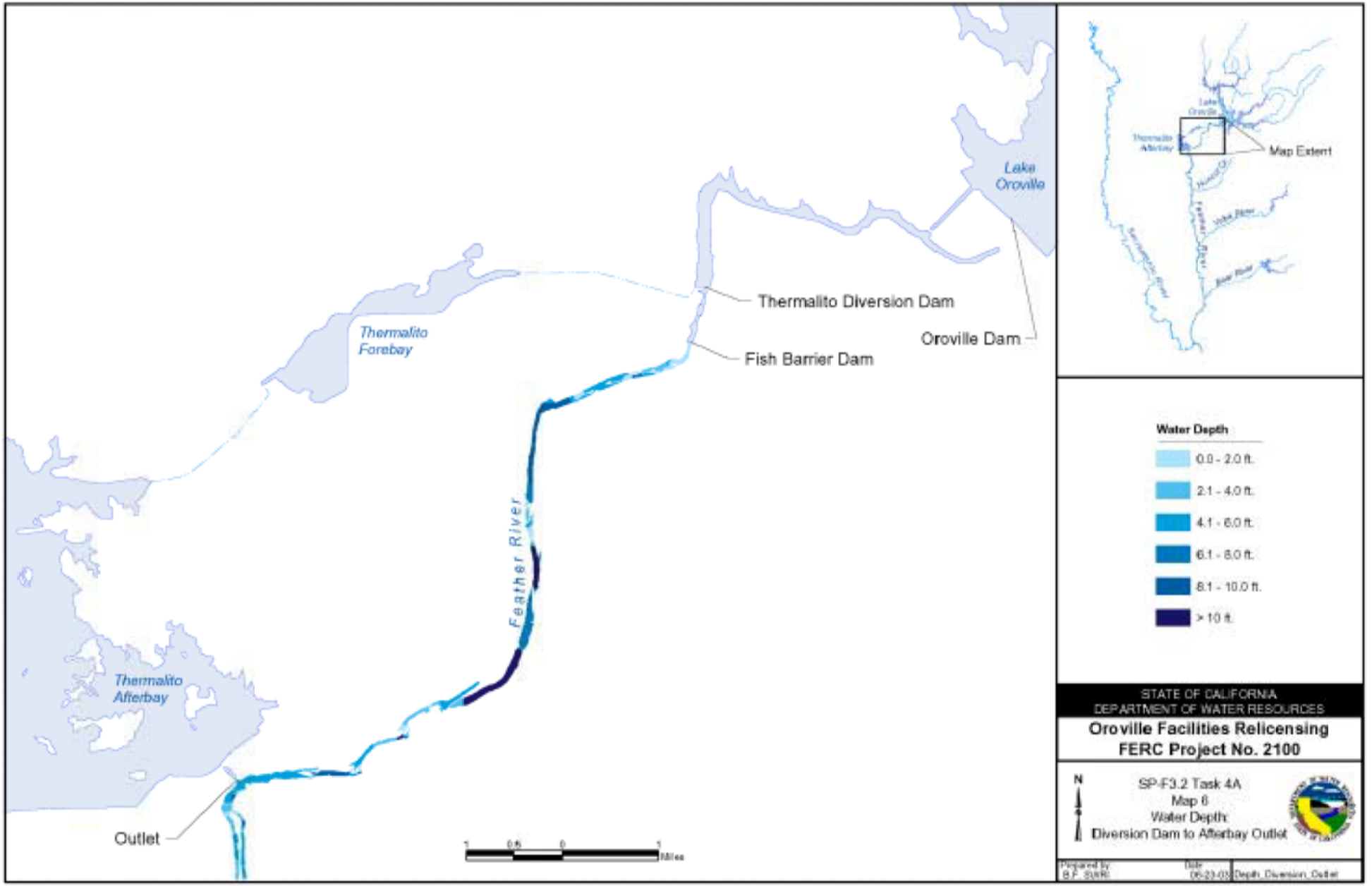
Oroville Facilities Relicensing
FERC Project No. 2100

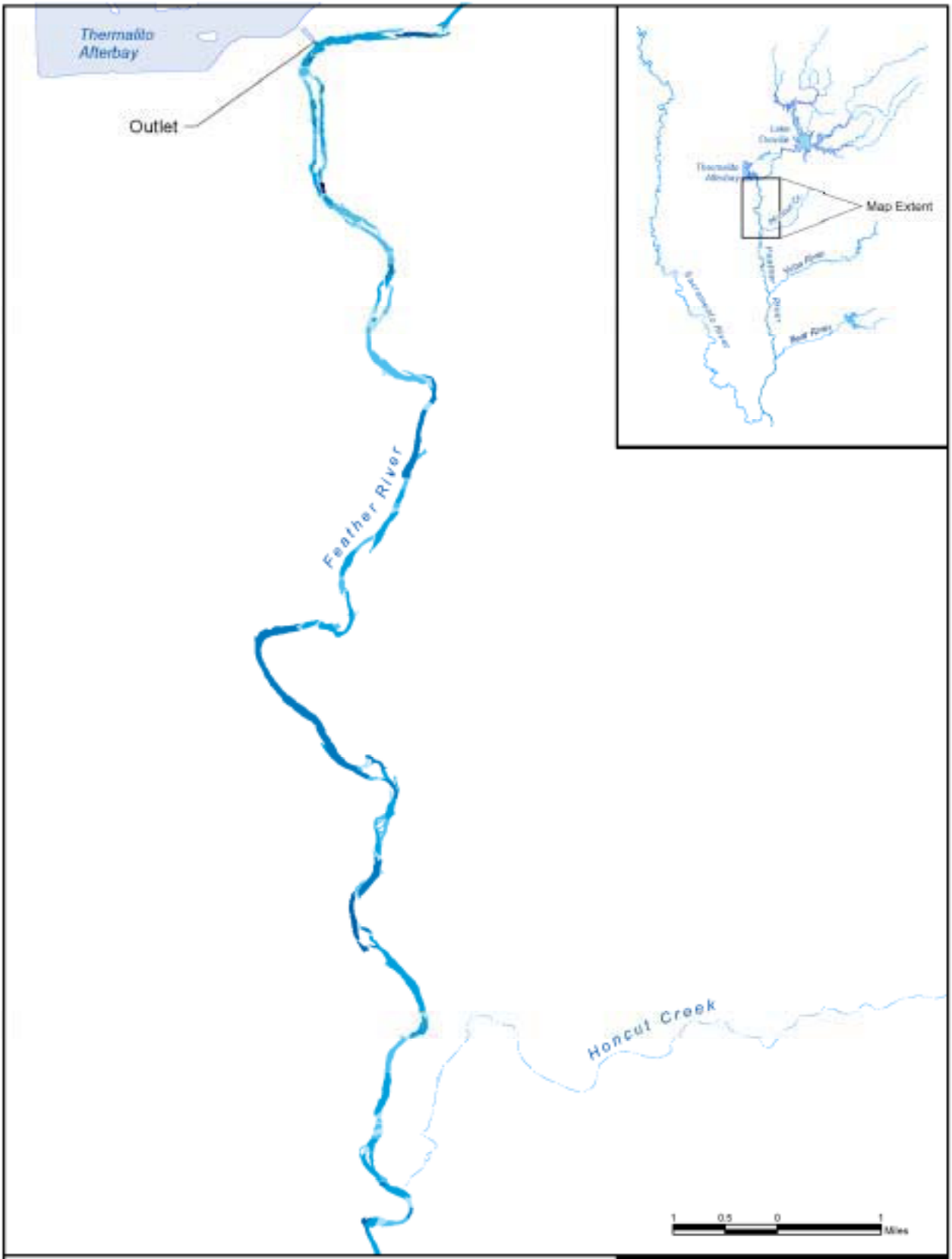
N

SP-F3.2 Task 4A
Map 4
Mesohabitat:
Yuba River to Bear River

Prepared by:	Date:	
B.F. SWRI	06-18-03	Meso_Yuba_Bear


Bear River
Feather River
Sacramento River
Lake Oroville
Thermalito Afterbay
Honcut Cr.
Yuba River
Feather River
Bear River
Sacramento River
Map Extent
1 0.5 0 1
Miles
Mesohabitat Type
Run
Pool
Boulder Run
Riffle
Glide
Backwater
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
Oroville Facilities Relicensing
FERC Project No. 2100
N
SP-F3.2 Task 4A
Map 5
Mesohabitat:
Bear River to Sacramento River
Prepared by:
B.E. SWRI
Date
06-18-03
Meso_Bear_Sacramento


Lake Oroville
Thermalito Diversion Dam
Oroville Dam
Thermalito Forebay
Fish Barrier Dam
Feather River
Thermalito Afterbay
Outlet
0 0.5 0 1 Miles
Map Extent
Water Depth
0.0 - 2.0 ft.
2.1 - 4.0 ft.
4.1 - 6.0 ft.
6.1 - 8.0 ft.
8.1 - 10.0 ft.
> 10 ft.
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
Oroville Facilities Relicensing
FERC Project No. 2100
N
SP-F3.2 Task 4A
Map 6
Water Depth:
Diversion Dam to Afterbay Outlet
Prepared by:
B.F. SWR
Date:
06-23-03
Depth_Diversion_Outlet



Water Depth

0.0 - 2.0 ft.	4.1 - 6.0 ft.	8.1 - 10.0 ft.
2.1 - 4.0 ft.	6.1 - 8.0 ft.	> 10 ft.

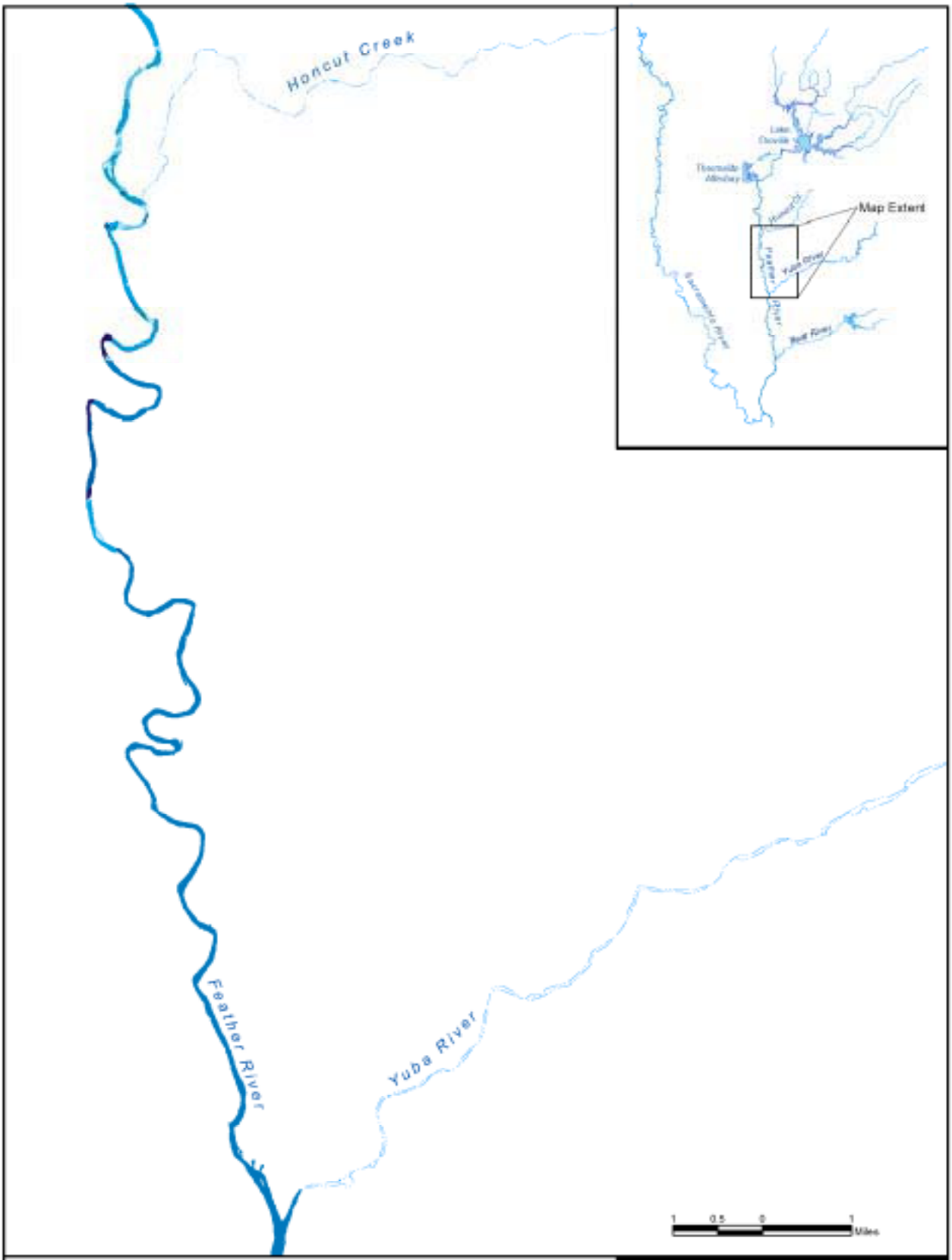
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

Oroville Facilities Relicensing
FERC Project No. 2100

N

SP-F3.2 Task 4A
Map 7
Water Depth:
Afterbay Outlet to Honcut Creek

Prepared by:	Date:	
B.F. SWRI	08-23-03	Depth_Outlet_Honcut



Water Depth

0.0 - 2.0 ft.	4.1 - 6.0 ft.	8.1 - 10.0 ft.
2.1 - 4.0 ft.	6.1 - 8.0 ft.	> 10 ft.

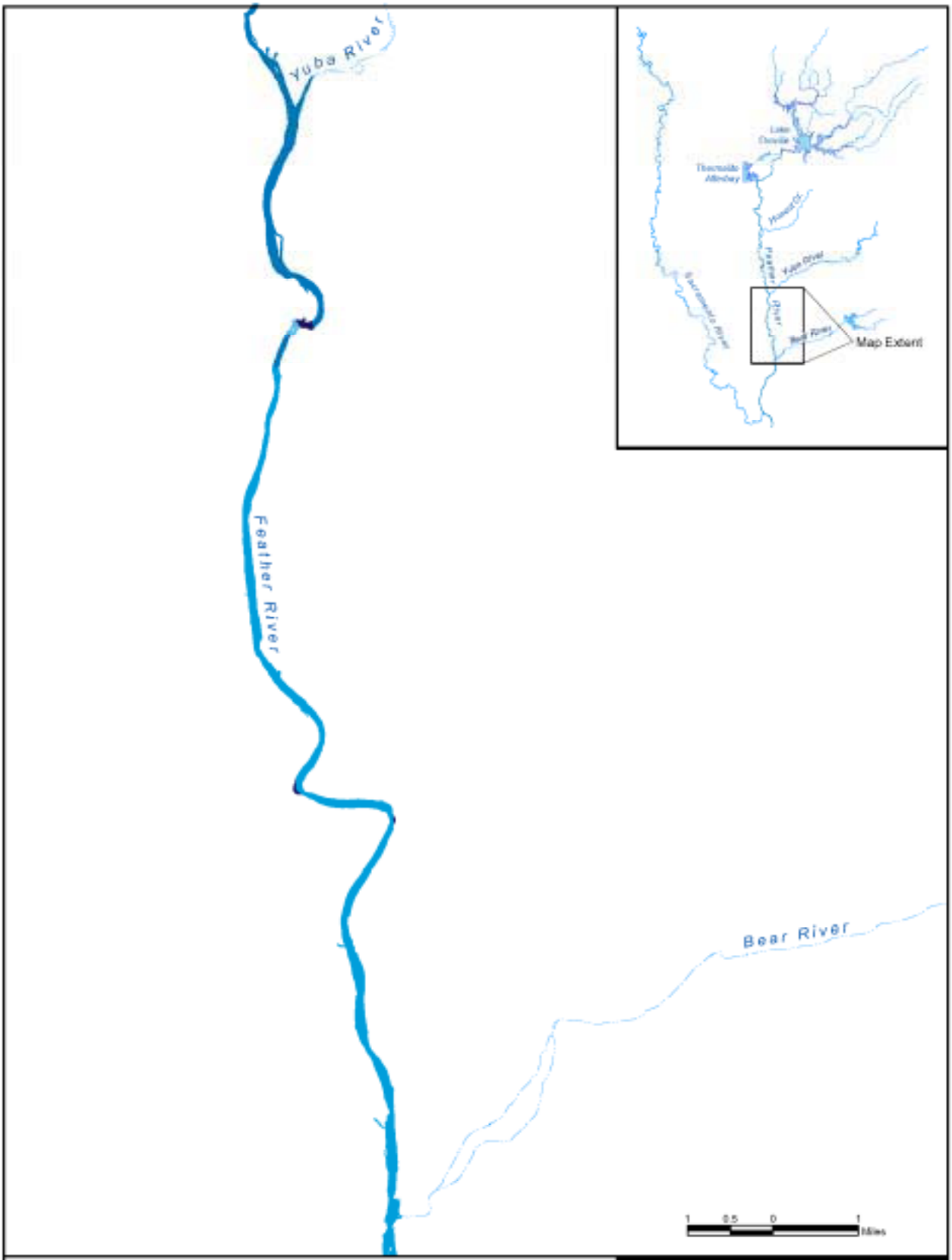
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

Oroville Facilities Relicensing
FERC Project No. 2100

N

SP-F3.2 Task 4A
Map 8
Water Depth:
Honcut Creek to Yuba River

Prepared by:	Date:	
B.F. SWRI	06-23-03	Depth_Honcut_Yuba



Water Depth

0.0 - 2.0 ft.	4.1 - 6.0 ft.	8.1 - 10.0 ft.
2.1 - 4.0 ft.	6.1 - 8.0 ft.	> 10 ft.

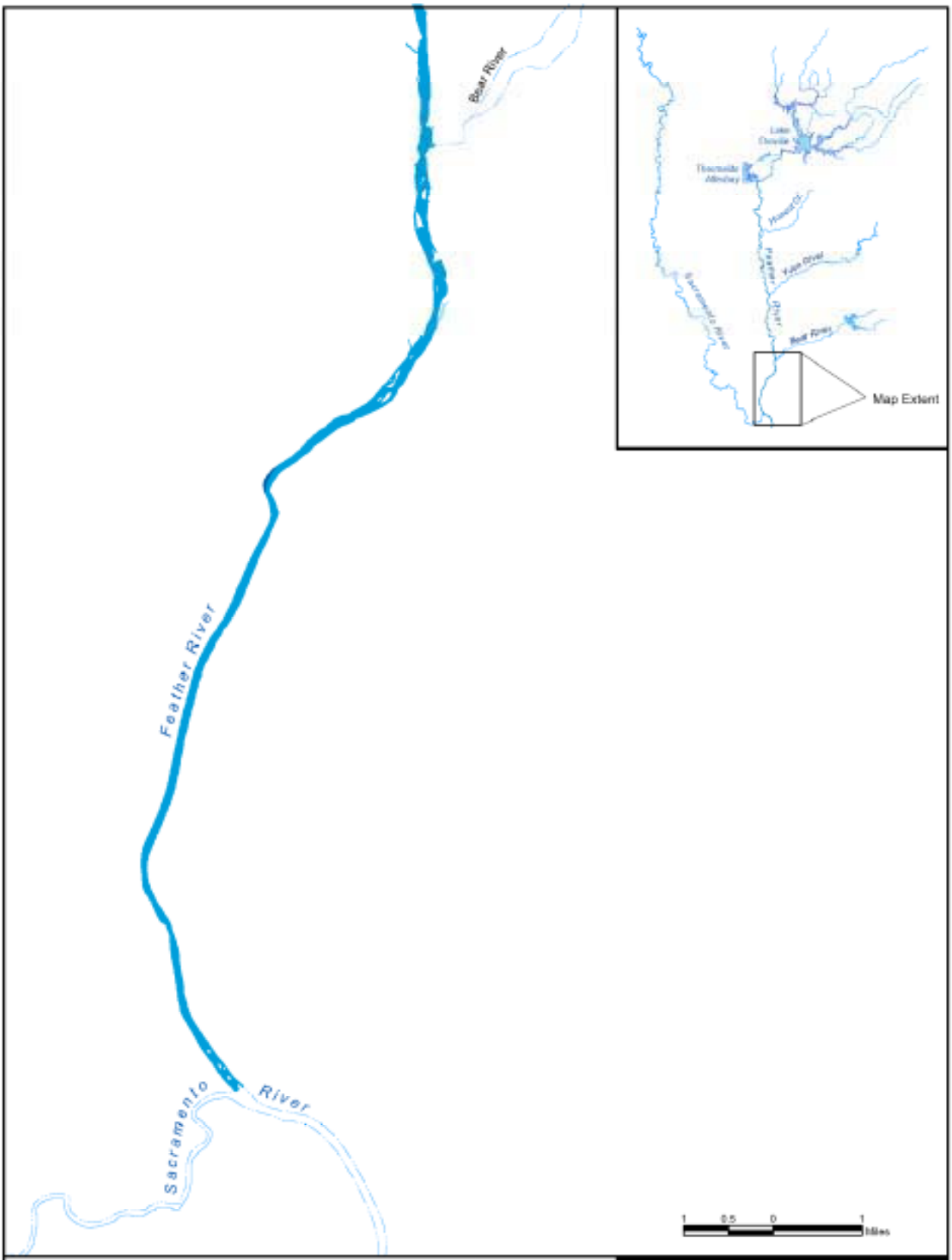
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

Oroville Facilities Relicensing
FERC Project No. 2100

N

SP-F3.2 Task 4A
Map 9
Water Depth:
Yuba River to Bear River

Prepared by:	Date:	
B.F. SWRI	06-23-03	Depth_Yuba_Bear



Water Depth

0.0 - 2.0 ft.	4.1 - 6.0 ft.	8.1 - 10.0 ft.
2.1 - 4.0 ft.	6.1 - 8.0 ft.	> 10 ft.

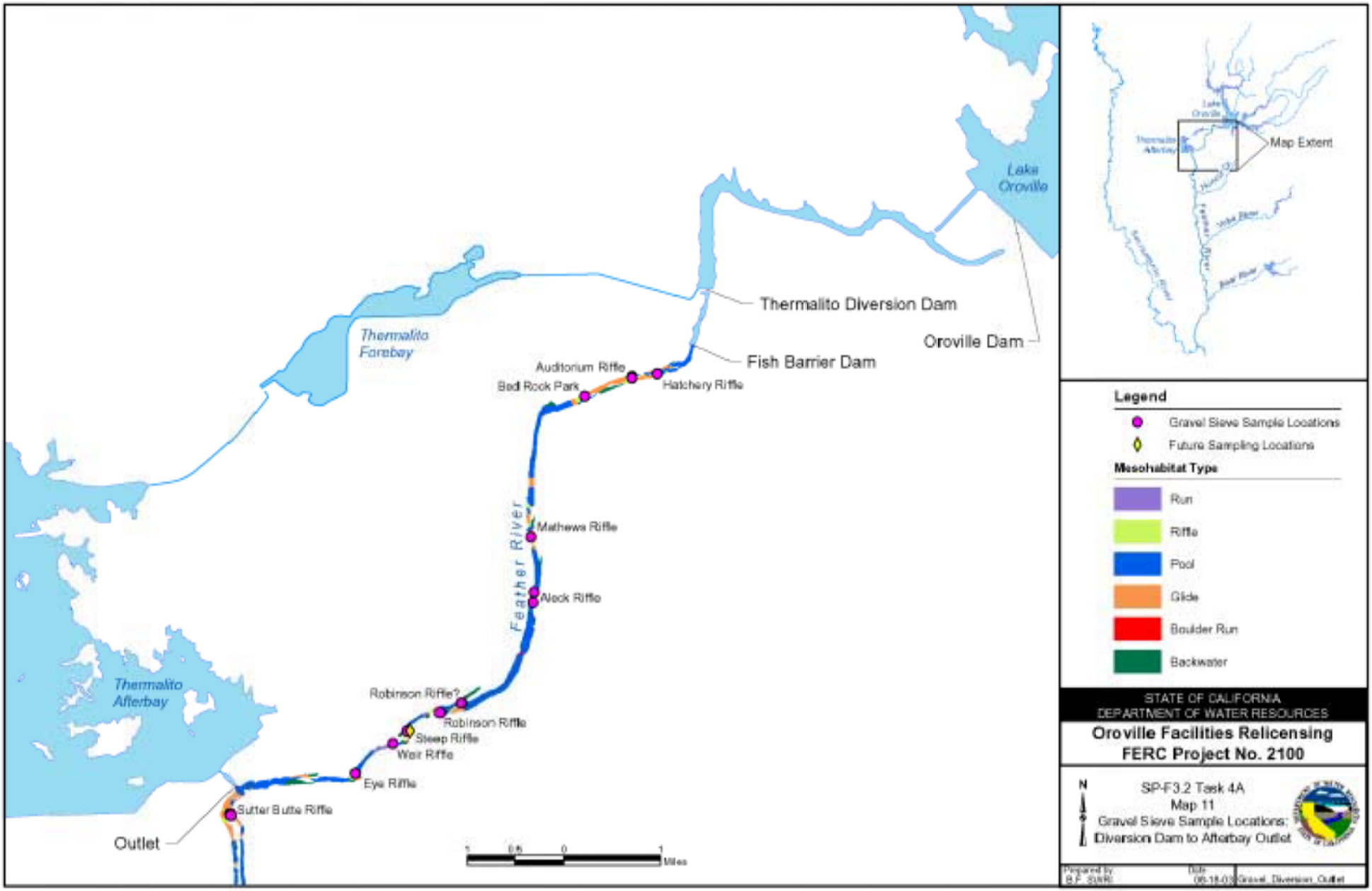
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

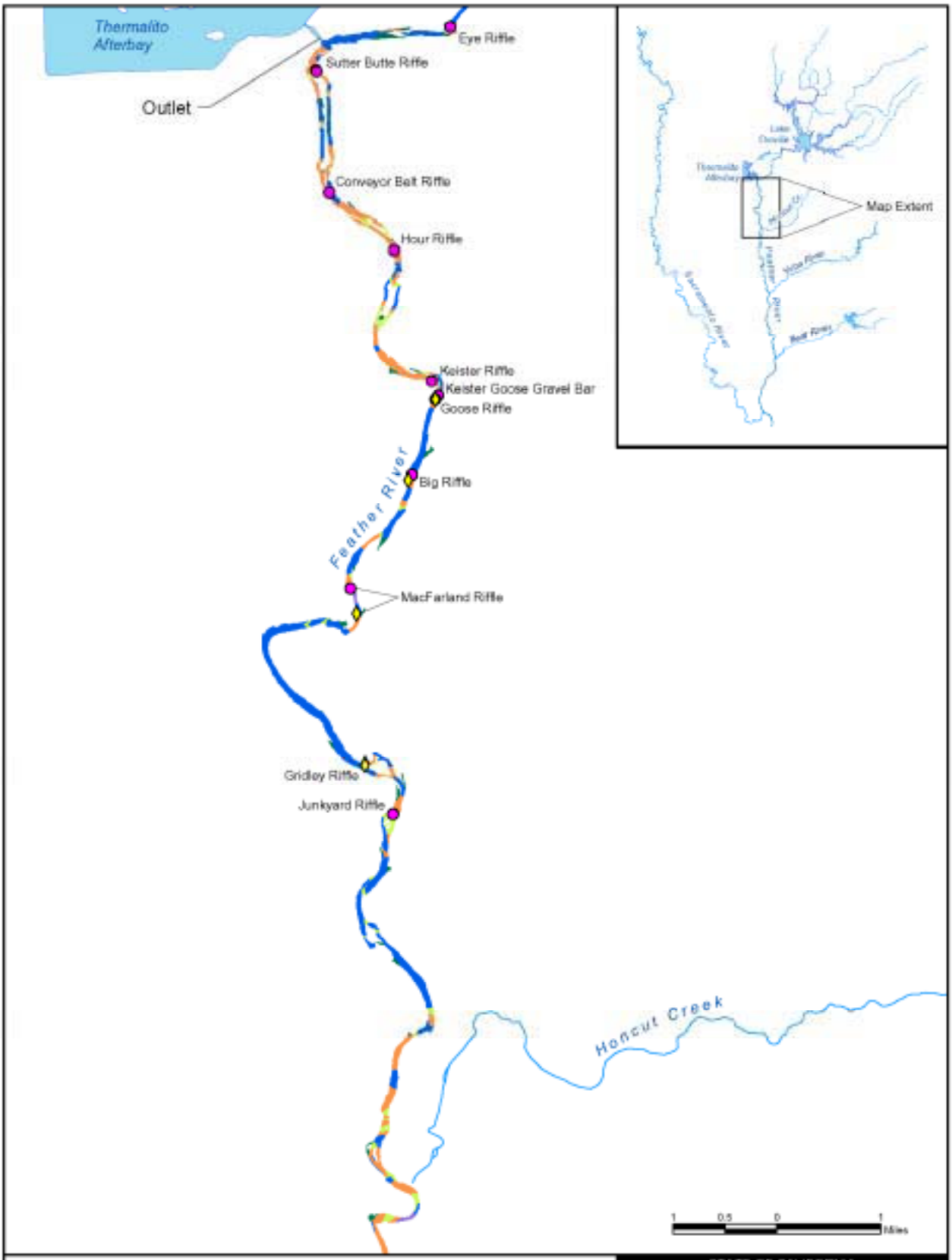
Oroville Facilities Relicensing
FERC Project No. 2100

N

SP-F3.2 Task 4A
Map 10
Water Depth:
Bear River to Sacramento River

Prepared by:	Date:	
B.F. SWRI	08-23-03	Depth_Bear_Sacramento


Lake Oroville
Thermalito Diversion Dam
Oroville Dam
Thermalito Forebay
Fish Barrier Dam
Auditorium Riffe
Bad Rock Park
Hatchery Riffe
Feather River
Mathews Riffe
Aleck Riffe
Thermalito Afterbay
Robinson Riffe?
Robinson Riffe
Steep Riffe
Weir Riffe
Eye Riffe
Sutter Butte Riffe
Outlet
Miles
Map Extent
Legend
Gravel Sieve Sample Locations
Future Sampling Locations
Mesohabitat Type
Run
Riffle
Pool
Glide
Boulder Run
Backwater
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
Oroville Facilities Relicensing
FERC Project No. 2100
N
SP-F3.2 Task 4A
Map 11
Gravel Sieve Sample Locations:
Diversion Dam to Afterbay Outlet
Prepared by:
B.F. SWR
Date
06-18-03
Gravel_Diversion_Outlet



Legend

- Gravel Sieve Sample Locations
- Future Sampling Locations

Mesohabitat Type

- Run
- Pool
- Boulder Run
- Riffle
- Glide
- Backwater

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

Oroville Facilities Relicensing
FERC Project No. 2100

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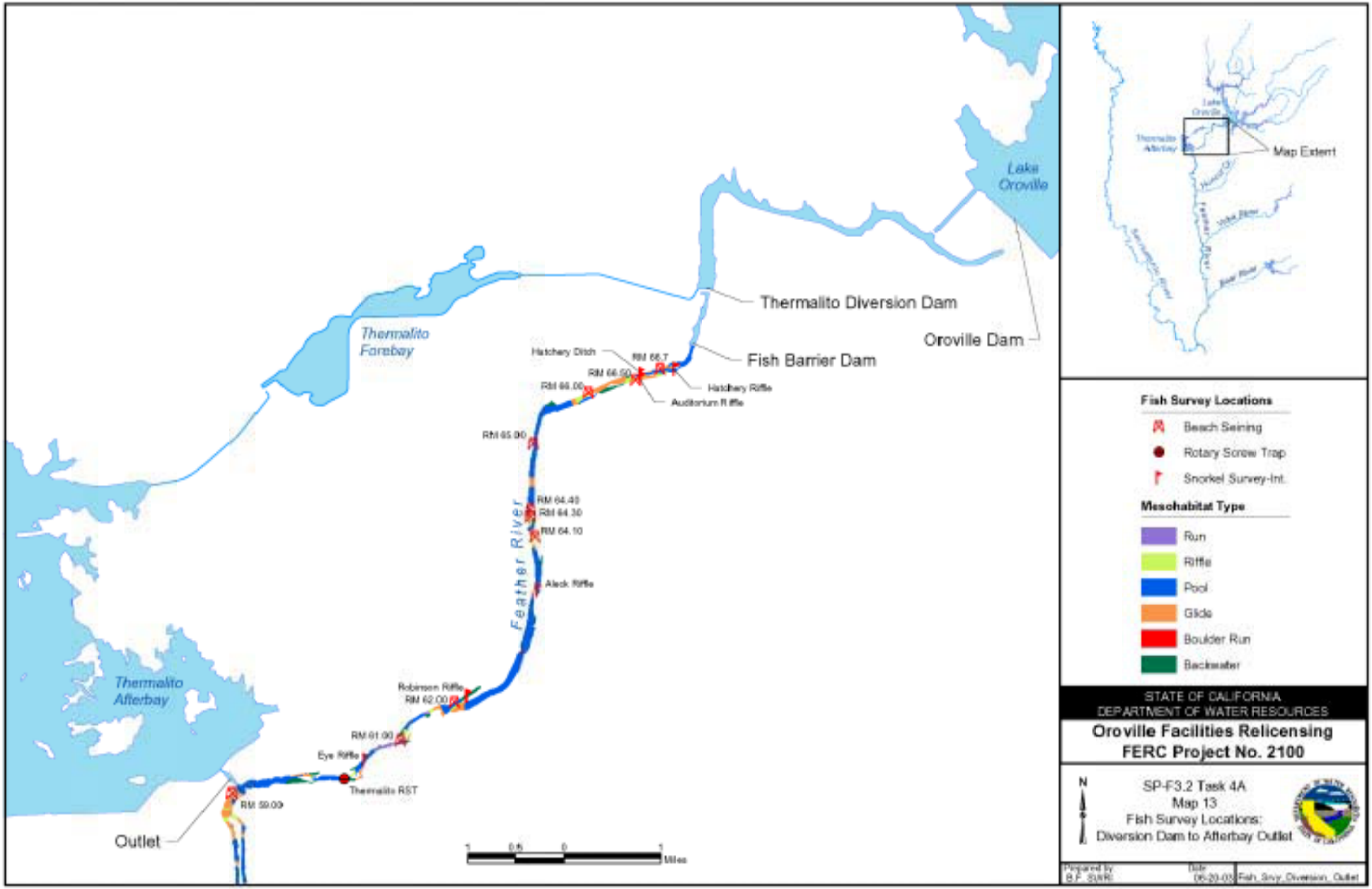
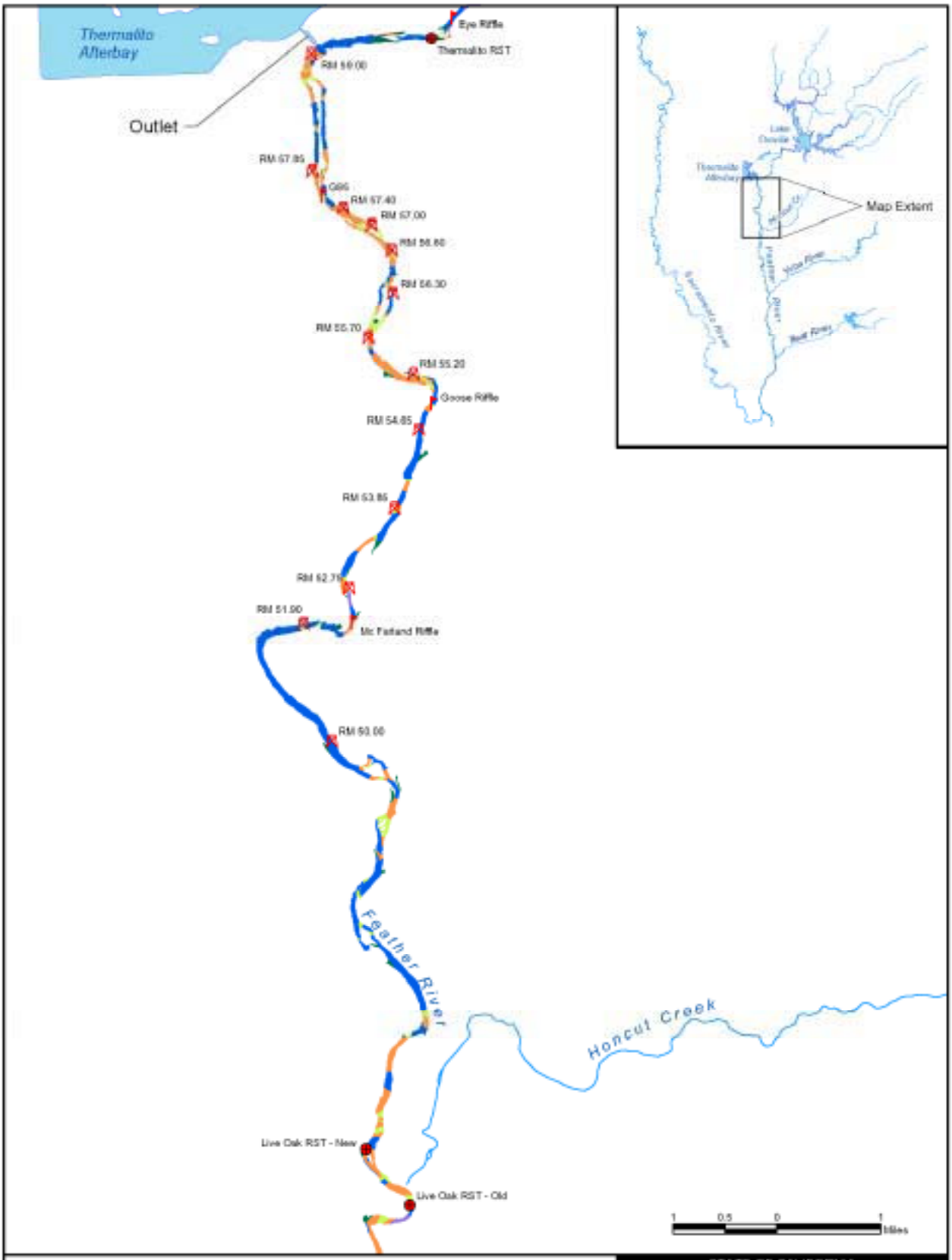
SP-F3.2 Task 4A
Map 12
Gravel Sieve Sample Locations:
Afterbay Outlet to Honcut Creek

Prepared by:	Date:	
B.F. SWRI	06-18-03	Gravel_Outlet_Honcut


Lake Oroville
Thermalito Diversion Dam
Oroville Dam
Thermalito Forebay
Fish Barrier Dam
Hatchery Ditch
RM 66.7
RM 66.50
RM 66.00
Hatchery Riffle
Auditorium Riffle
RM 65.00
RM 64.40
RM 64.30
RM 64.10
Feather River
Aleck Riffle
Robinson Riffle
RM 62.00
RM 61.00
Eye Riffle
Thermalito RST
RM 59.00
Thermalito Afterbay
Outlet
1 0.5 0 1
Miles
Map Extent
Fish Survey Locations
Beach Seining
Rotary Screw Trap
Snorkel Survey-Int.
Mesohabitat Type
Run
Riffle
Pool
Glide
Boulder Run
Backwater
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
Oroville Facilities Relicensing
FERC Project No. 2100
N
SP-F3.2 Task 4A
Map 13
Fish Survey Locations:
Diversion Dam to Afterbay Outlet
Prepared by:
B.F. SWRI
Date
06-20-03
Fish_Srvy_Diversion_Outlet



Fish Survey Locations

Beach Seining | Rotary Screw Trap | Snorkel Survey-Int.

Mesohabitat Type

Run | Pool | Boulder Run

Riffle | Glide | Backwater

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

Oroville Facilities Relicensing
FERC Project No. 2100

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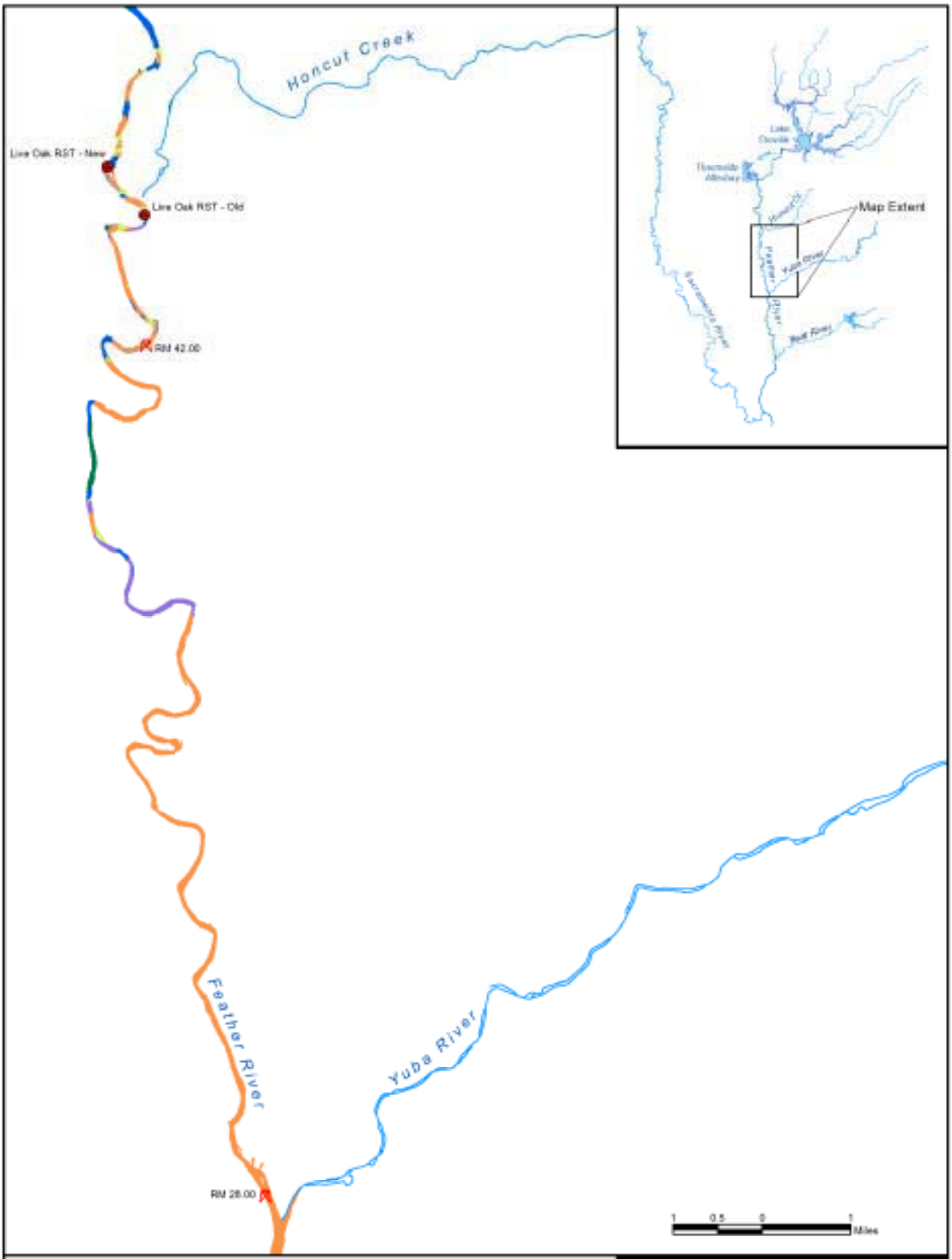
SP-F3.2 Task 4A
Map 14
Fish Survey Locations

Prepared by: B.F. SWRI | Date: 06-20-03 | Fish Survey Locations



Fish Survey Locations

Beach Seining | Rotary Screw Trap | Snorkel Survey-Int.

Mesohabitat Type

Run | Pool | Boulder Run

Riffle | Glide | Backwater

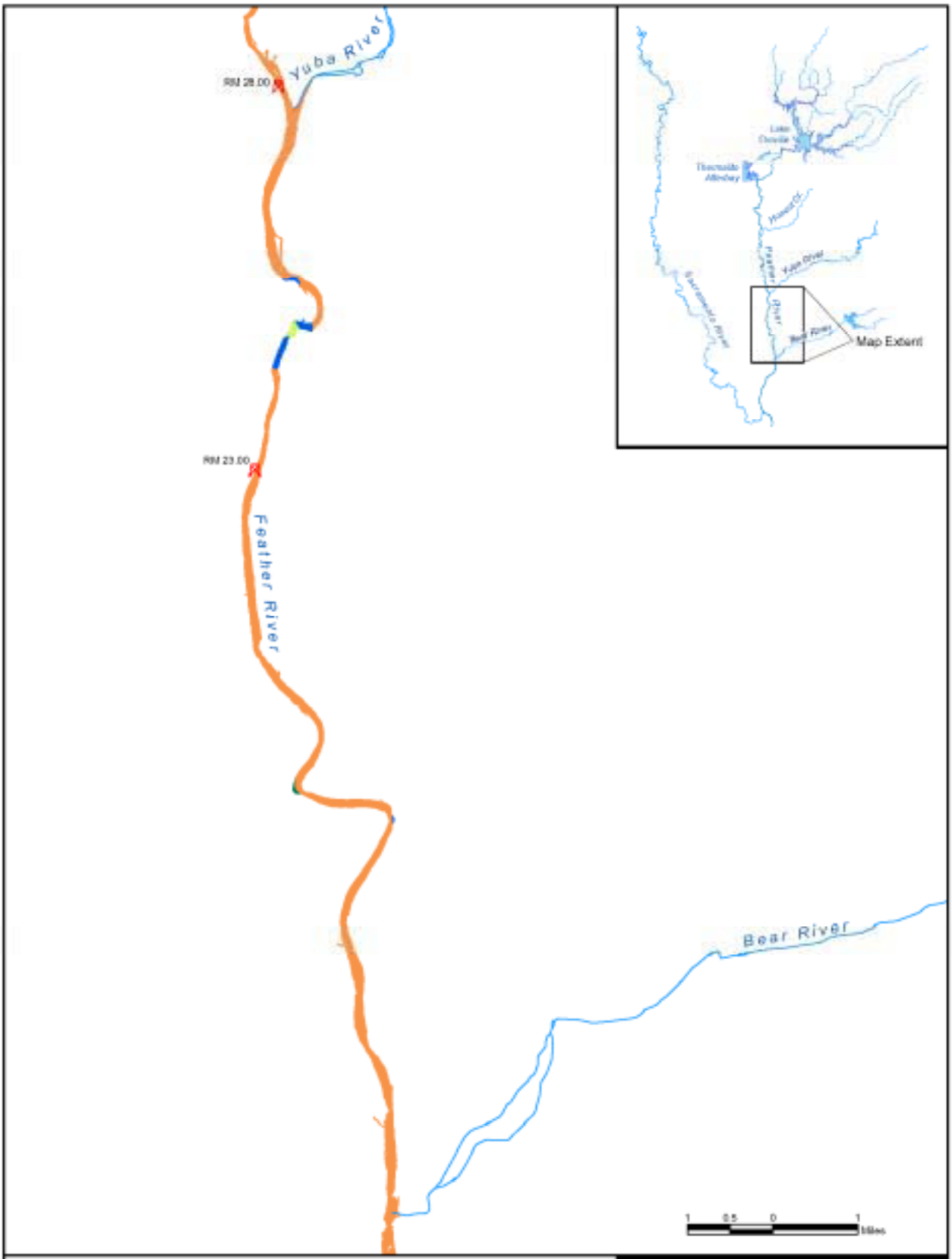
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

Oroville Facilities Relicensing
FERC Project No. 2100

N

SP-F3.2 Task 4A
Map 15
Fish Survey Locations:
Honcut Creek to Yuba River

Prepared by: B.F. SWRI | Date: 06-26-03 | Fish_Srvy_Honcut_Yuba



Fish Survey Locations

Beach Seining | Rotary Screw Trap | Snorkel Survey-Int.

Mesohabitat Type

Run | Pool | Boulder Run

Riffle | Glide | Backwater

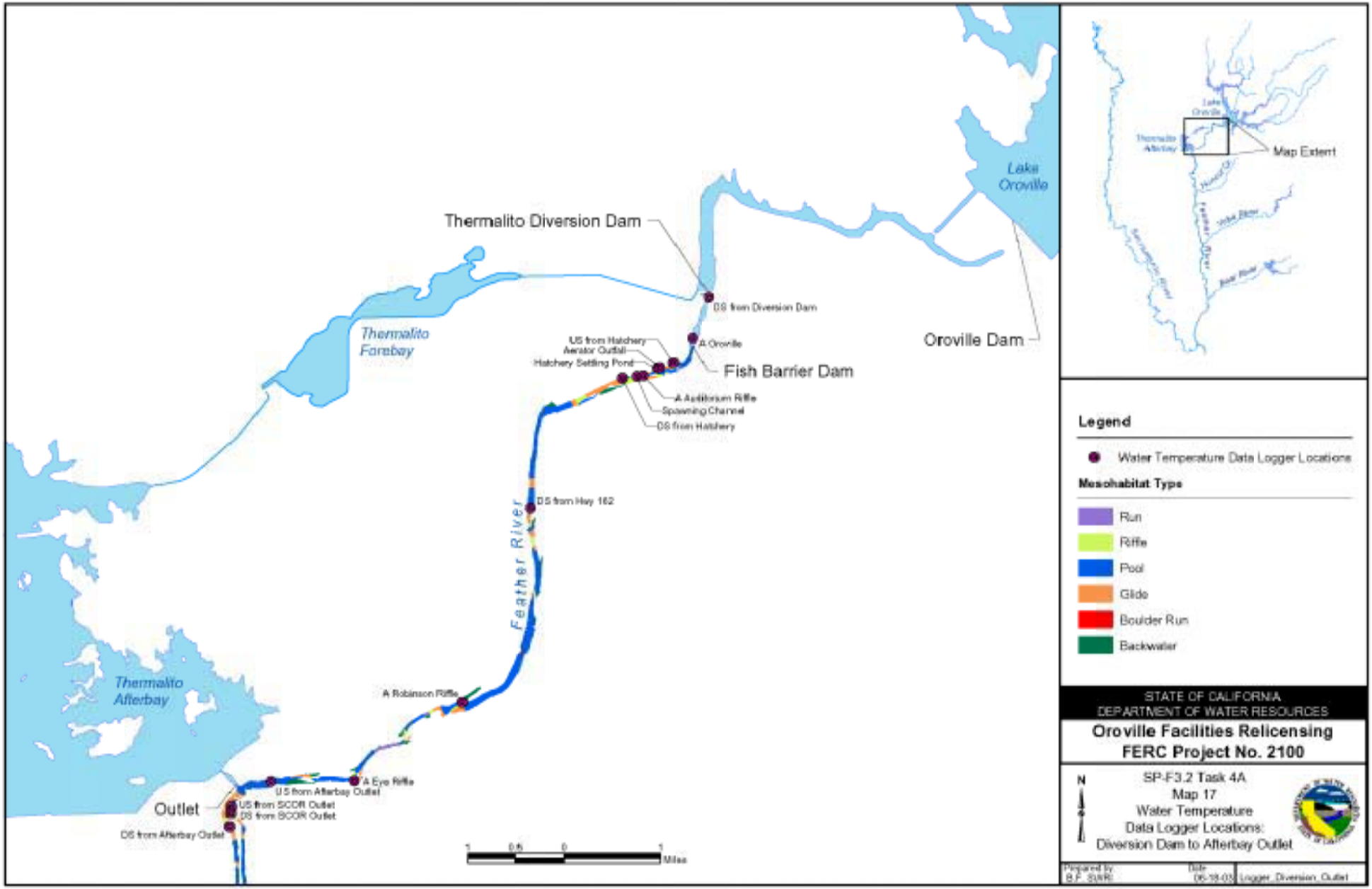
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

Oroville Facilities Relicensing
FERC Project No. 2100

N

SP-F3.2 Task 4A
Map 16
Fish Survey Locations:
Yuba River to Bear River

Prepared by:	Date:	
B.F. SWRI	06-20-03	Fish_Srvy_Yuba_Bear


Lake Oroville
Thermalito Diversion Dam
Oroville Dam
Thermalito Forebay
DS from Diversion Dam
US from Hatchery Aerator Outfall
Hatchery Settling Pond
A Oroville
Fish Barrier Dam
A Auditorium Riffle
Spawning Channel
DS from Hatchery
DS from Hwy 162
Feather River
A Robinson Riffle
Thermalito Afterbay
A Eye Riffle
US from Afterbay Outlet
Outlet
US from SCDR Outlet
DS from SCDR Outlet
DS from Afterbay Outlet
1 0.5 0 1 Miles
Map Extent
Legend
Water Temperature Data Logger Locations
Mesohabitat Type
Run
Riffle
Pool
Glide
Boulder Run
Backwater
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
Oroville Facilities Relicensing
FERC Project No. 2100
N
SP-F3.2 Task 4A
Map 17
Water Temperature
Data Logger Locations:
Diversion Dam to Afterbay Outlet
Prepared by: B.F. SWRI
Date: 06-18-03
Logger_Diversion_Outlet