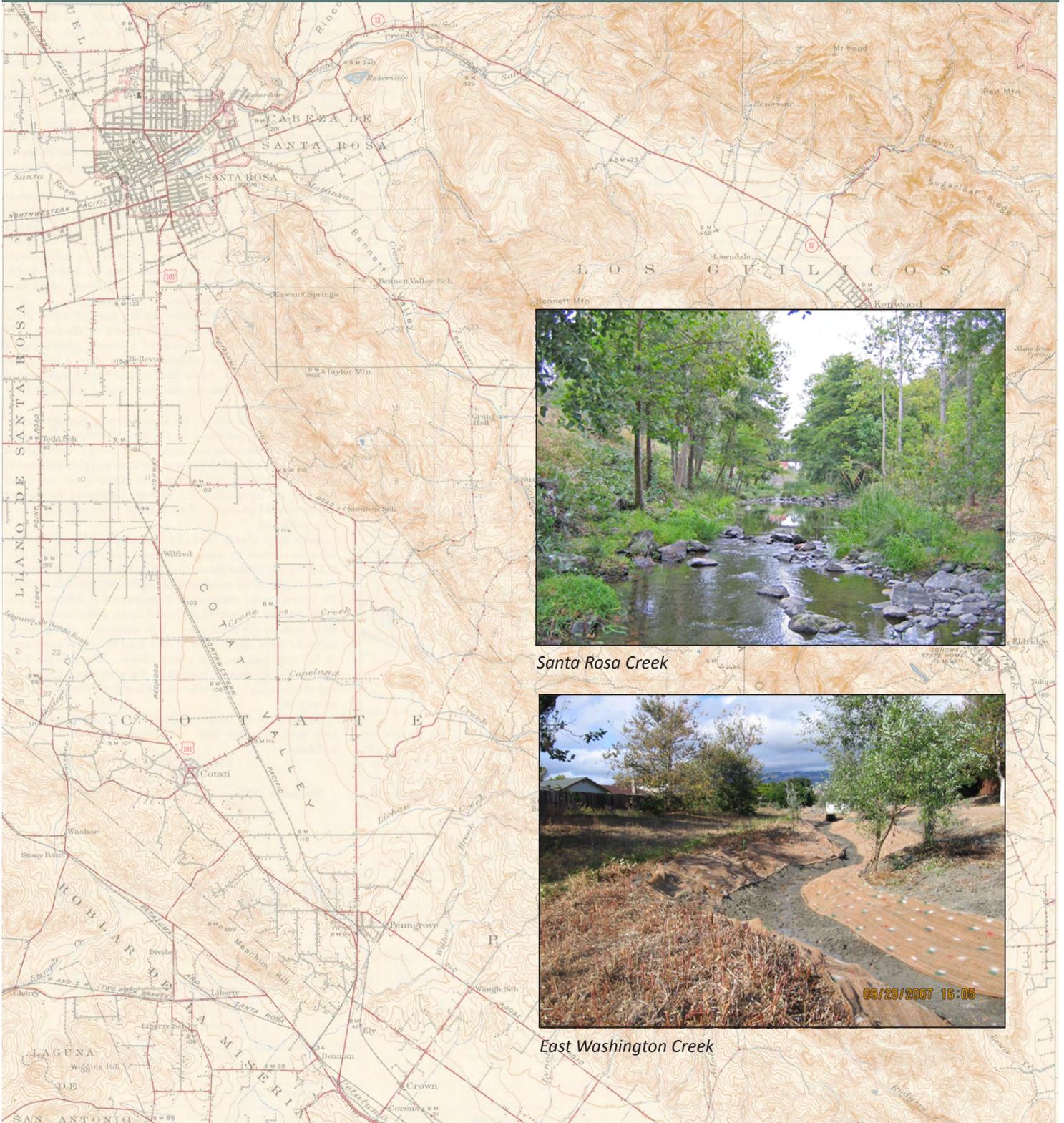




Stream Maintenance Program

Draft Manual



Santa Rosa Creek



East Washington Creek



Elevation (feet)

	Below Sea level		250 - 500
	0 - 25		500 - 1,000
	25 - 50		1,000 - 1,500
	50 - 75		1,500 - 2,000
	75 - 100		2,000 - 2,500
	100 - 250		Above 2,500

Highways

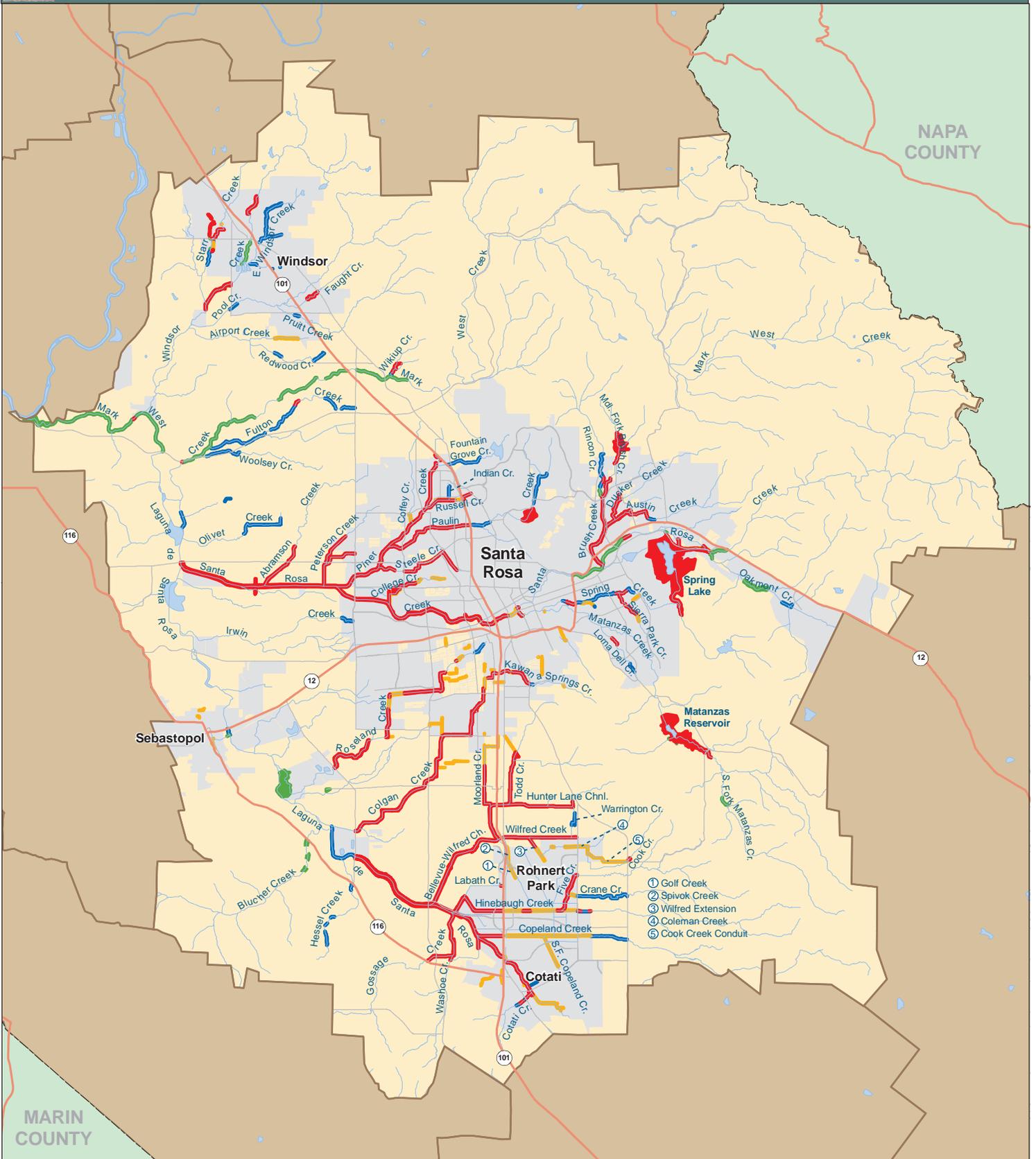
SCWA Flood Control Zone Boundary

Figure 1-1

Program Area



Sources:
 Sonoma County Water Agency
 County of Sonoma
 California Spatial Information Library
 U.S. Geological Survey



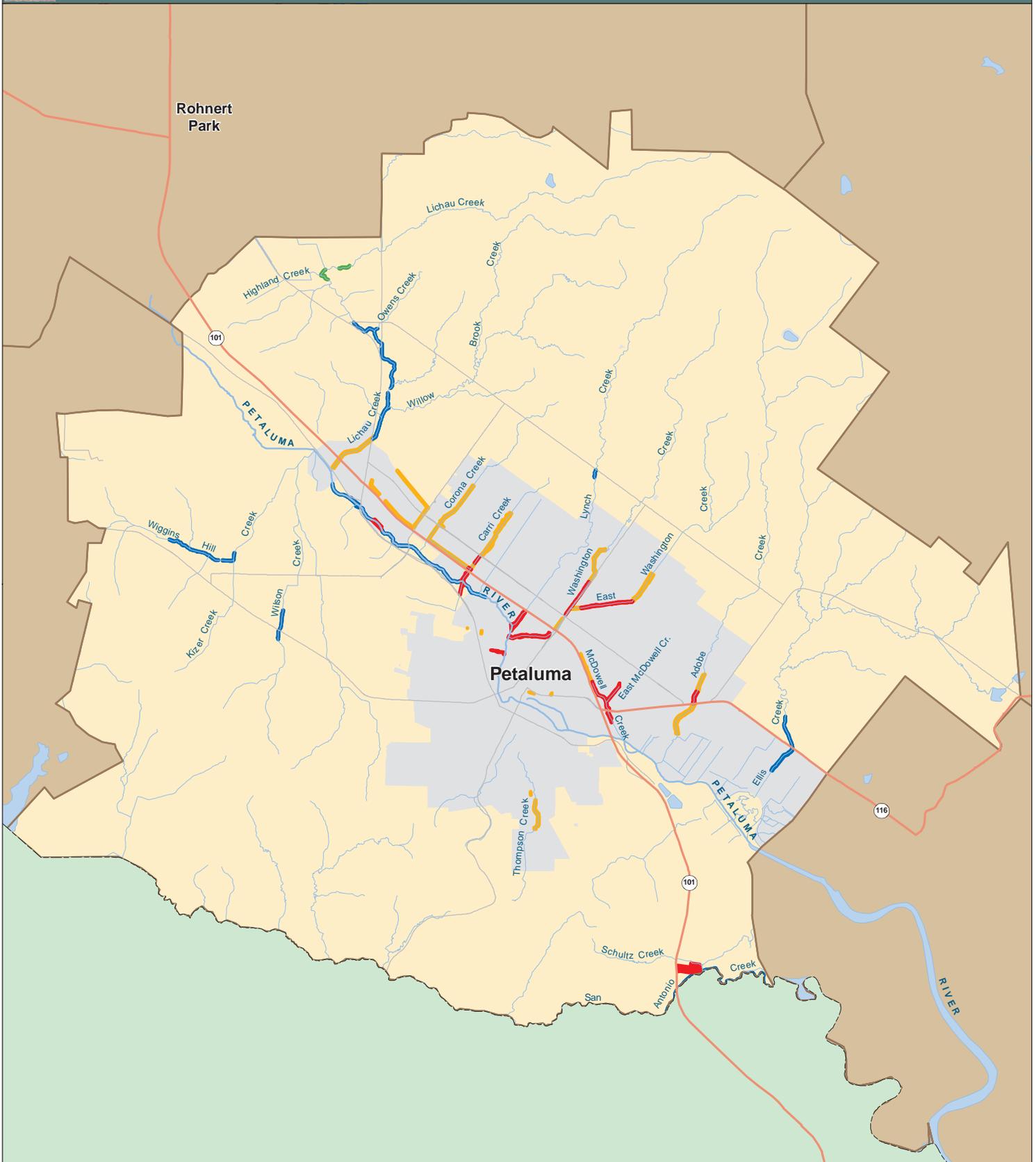
SCWA Easements

- █ Owned in Fee-Engineered Channel
- █ Easement Engineered Channel
- █ Easement Modified Channel
- █ Easement Natural Channel
- █ Easement Natural Channel, Not Maintained Under SMP *
- ~ Streams
- ~ Highways
- ~ Roads
- █ Water Bodies
- █ Incorporated Area

* Following guidance provided by NMFS and FWS regarding sensitive species habitat, certain natural channels were removed from maintenance activities and coverage of the SMP. These creeks and reaches are indicated in Figure 1-12.

Figure 1-2
Zone 1A





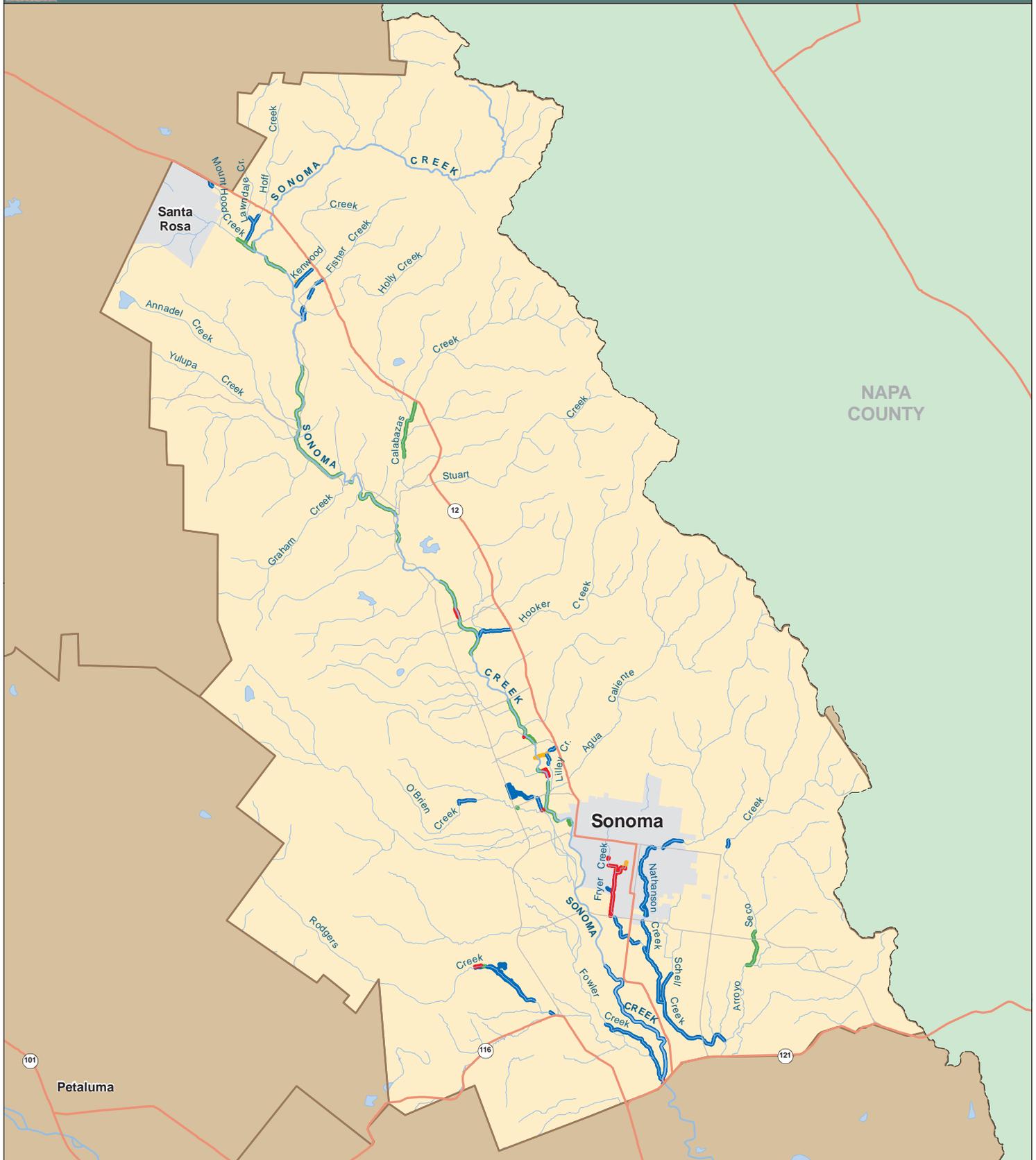
SCWA Easements

- █ Owned in Fee-Engineered Channel
- █ Easement Engineered Channel
- █ Easement Modified Channel
- █ Easement Natural Channel
- █ Easement Natural Channel, Not Maintained Under SMP *
- ~ Streams
- ~ Highways
- ~ Roads
- Water Bodies
- Incorporated Area

* Following guidance provided by NMFS and FWS regarding sensitive species habitat, certain natural channels were removed from maintenance activities and coverage of the SMP. These creeks and reaches are indicated in Figure 1-12.

Figure 1-3
Zone 2A





NAPA COUNTY

Petaluma

Sonoma



SCWA Easements

- █ Owned in Fee-Engineered Channel
- █ Easement Engineered Channel
- █ Easement Modified Channel
- █ Easement Natural Channel
- - - Easement Natural Channel, Not Maintained Under SMP *
- Streams
- Highways
- Roads
- Water Bodies
- Incorporated Area

* Following guidance provided by NMFS and FWS regarding sensitive species habitat, certain natural channels were removed from maintenance activities and coverage of the SMP. These creeks and reaches are indicated in Figure 1-12.

Figure 1-4
Zone 3A



Sources:
Sonoma County Water Agency
County of Sonoma
California Spatial Information Library





SCWA Easements

- | | | | |
|--|--|--|-------------------|
| | Owned in Fee-Engineered Channel | | Streams |
| | Easement Engineered Channel | | Highways |
| | Easement Modified Channel | | Roads |
| | Easement Natural Channel | | Water Bodies |
| | Easement Natural Channel, Not Maintained Under SMP * | | Incorporated Area |

* Following guidance provided by NMFS and FWS regarding sensitive species habitat, certain natural channels were removed from maintenance activities and coverage of the SMP. These creeks and reaches are indicated in Figure 1-12.

Figure 1-5

Zone 4A



Sources:
Sonoma County Water Agency
County of Sonoma
California Spatial Information Library





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SCWA Easements

— Owned in Fee-Engineered Channel	— Streams
— Easement Engineered Channel	— Highways
— Easement Modified Channel	— Roads
— Easement Natural Channel	 Water Bodies
- - - Easement Natural Channel, Not Maintained Under SMP *	 Incorporated Area

* Following guidance provided by NMFS and FWS regarding sensitive species habitat, certain natural channels were removed from maintenance activities and coverage of the SMP. These creeks and reaches are indicated in Table X-X of the SMP manual.

**Figure 1-6
Zone 5A**

Miles

Sources: Sonoma County Water Agency, County of Sonoma, California Spatial Information Library, Geografika Consulting



SCWA Easements

- | | | | |
|--|--|--|-------------------|
| | Owned in Fee-Engineered Channel | | Streams |
| | Easement Engineered Channel | | Highways |
| | Easement Modified Channel | | Roads |
| | Easement Natural Channel | | Water Bodies |
| | Easement Natural Channel, Not Maintained Under SMP * | | Incorporated Area |

* Following guidance provided by NMFS and FWS regarding sensitive species habitat, certain natural channels were removed from maintenance activities and coverage of the SMP. These creeks and reaches are indicated in Figure 1-12.

Figure 1-7

Zone 6A





SCWA Easements

- Owned in Fee-Engineered Channel
- Easement Engineered Channel
- Easement Modified Channel
- Easement Natural Channel
- - - Easement Natural Channel, Not Maintained Under SMP *
- ~ Streams
- Highways
- Roads
- Water Bodies
- Incorporated Area

* Following guidance provided by NMFS and FWS regarding sensitive species habitat, certain natural channels were removed from maintenance activities and coverage of the SMP. These creeks and reaches are indicated in Figure 1-12.

Figure 1-8

Zone 8A



Sources:
 Sonoma County Water Agency
 County of Sonoma
 California Spatial Information Library





SCWA Easements

- █ Owned in Fee-Engineered Channel
- █ Easement Engineered Channel
- █ Easement Modified Channel
- █ Easement Natural Channel
- █ Easement Natural Channel, Not Maintained Under SMP *
- ~ Streams
- ~ Highways
- ~ Roads
- █ Water Bodies
- █ Incorporated Area

* Following guidance provided by NMFS and FWS regarding sensitive species habitat, certain natural channels were removed from maintenance activities and coverage of the SMP. These creeks and reaches are indicated in Figure 1-12.

Figure 1-9

Zone 9A



Sources:
 Sonoma County Water Agency
 County of Sonoma
 California Spatial Information Library





Photo a. Owned in Fee - Engineered Channel -- Adobe Creek at Sartori Drive looking downstream (Zone 2A).



Photo b. Easement Engineered Channel -- Coleman Creek at Hillview Way looking upstream (Zone 1A).



Photo c. Easement Modified Channel -- Nathanson Creek north of Napa Road looking upstream (Zone 3A).

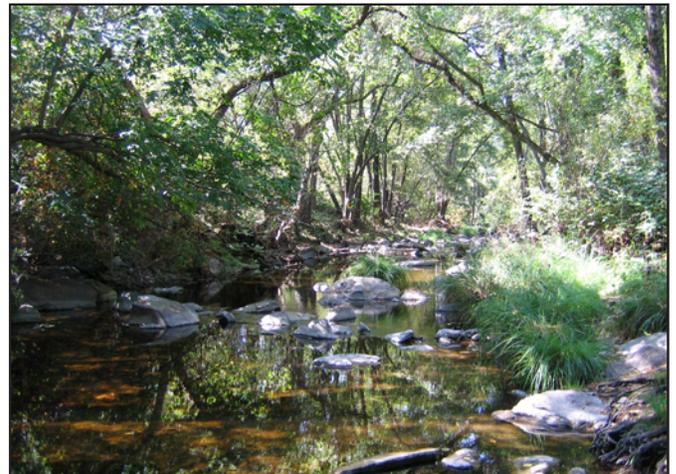
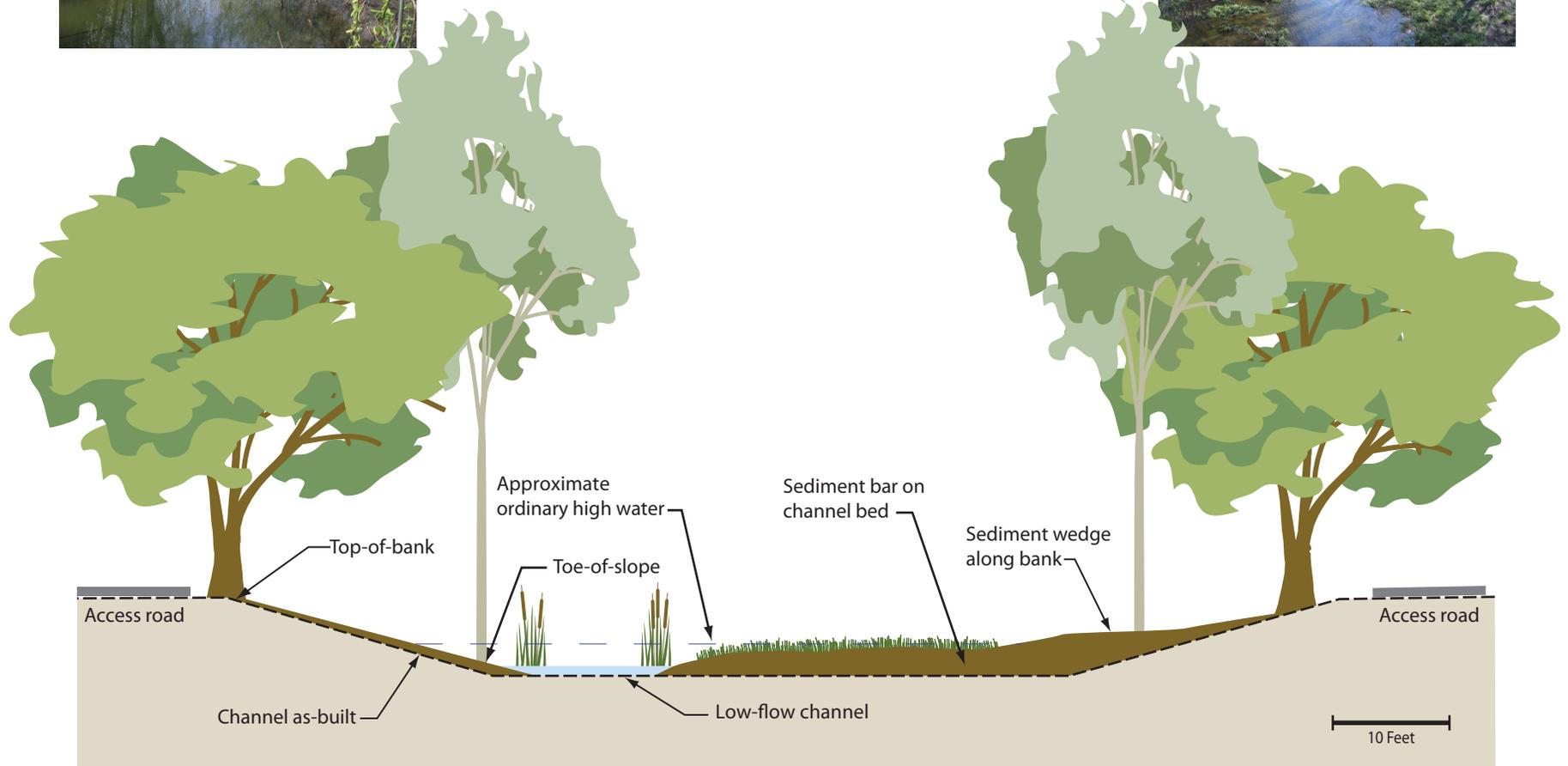
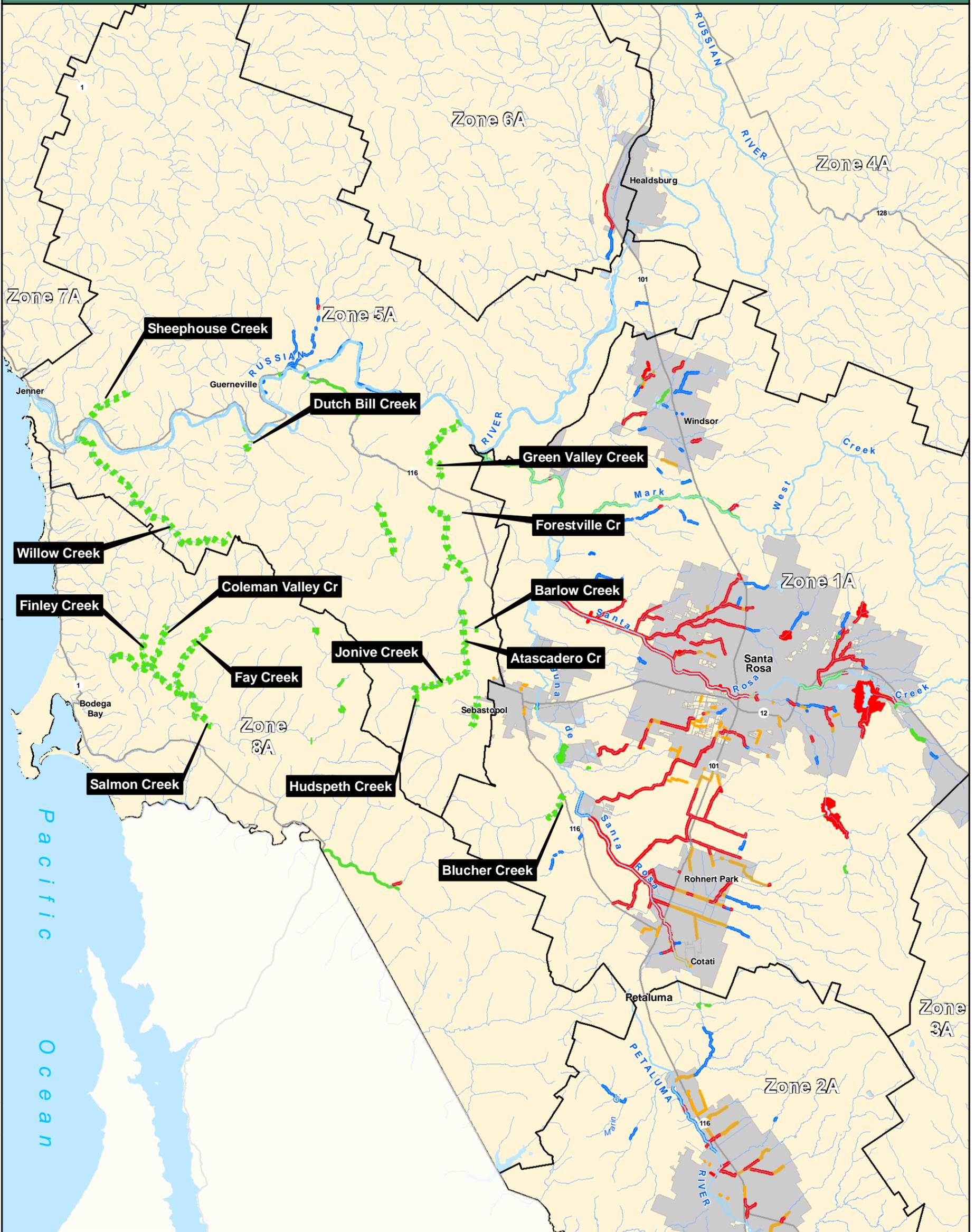


Photo d. Easement Natural Channel -- Santa Rosa Creek at Brush Creek confluence looking downstream (Zone 1A).



Vegetation just above toe-of-slope
Sediment bar
Low flow-channel





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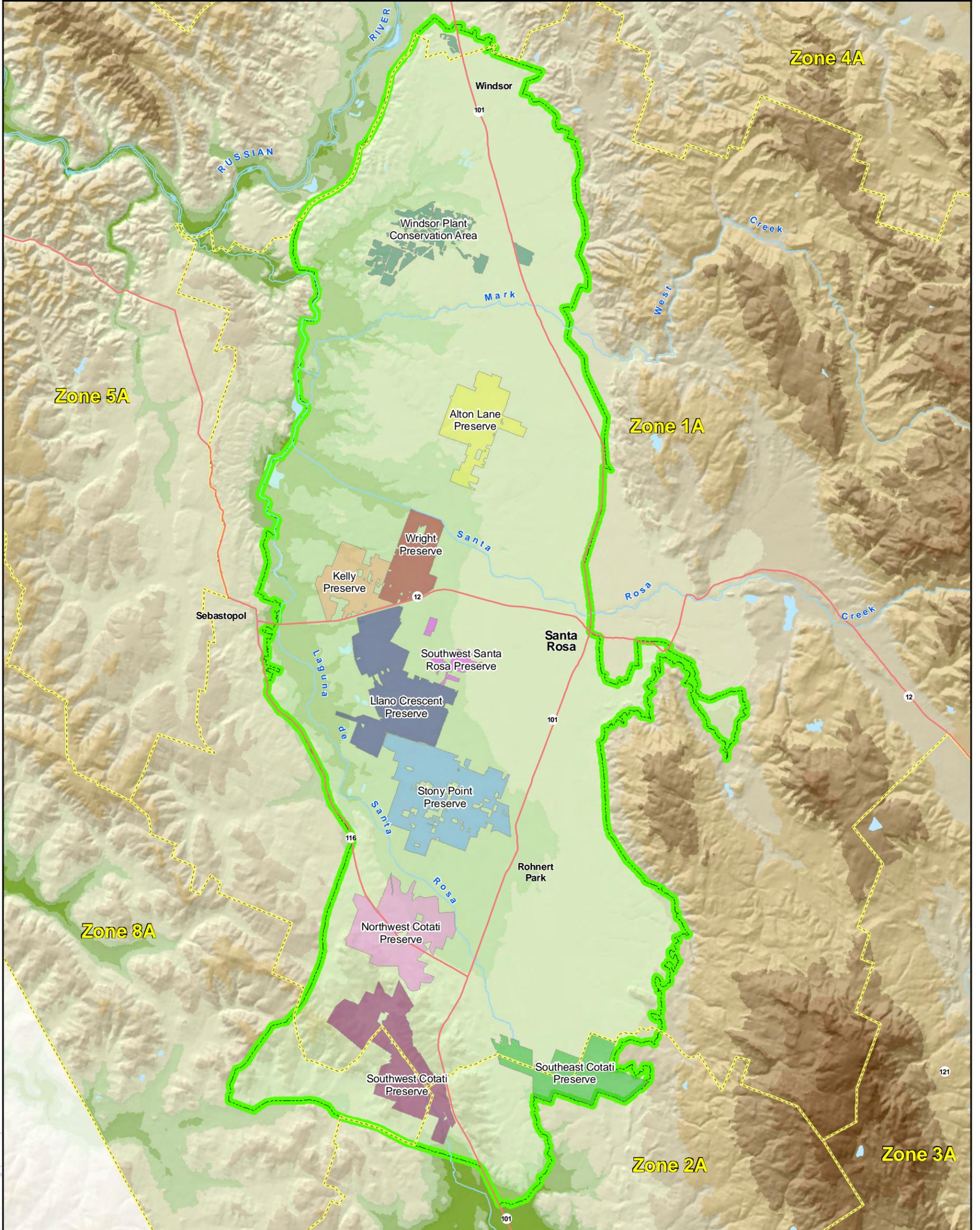


Natural Channels Not Included in the SMP due to Resource Sensitivity - Specifically for Coho and Chinook Salmon

- Owned in Fee-Engineered Channel
- Easement Engineered Channel
- Easement Modified Channel
- Easement Natural Channel
- SCWA Flood Control Zone Boundary
- Incorporated Areas
- Streams
- Highways

Figure 1-12
Natural Channels Not Included in the SMP Due to Resource Sensitivity

Sources:
Sonoma County Water Agency
County of Sonoma
California Spatial Information Library
U.S. Geological Survey
California Dept. of Fish & Game



Santa Rosa Plain Conservation Strategy Area

- Conservation Preserve Areas**
- Alton Lane
 - Kelly
 - Llano Crescent
 - Northwest Cotati
 - Southeast Cotati
 - Southwest Cotati
 - Southwest Santa Rosa
 - Stony Point
 - Windsor Plant Conservation Area
 - Wright

Elevation (feet)

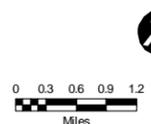
- | | | | |
|--|-----------------|--|---------------|
| | Below Sea level | | 250 - 500 |
| | 0 - 25 | | 500 - 1,000 |
| | 25 - 50 | | 1,000 - 1,500 |
| | 50 - 75 | | 1,500 - 2,000 |
| | 75 - 100 | | 2,000 - 2,500 |
| | 100 - 250 | | Above 2,500 |

Highways

SCWA Flood Control Zone Boundary

Figure 2-1

Santa Rosa Plain Conservation Strategy Area



Sources:
 Sonoma County Water Agency
 County of Sonoma
 California Spatial Information Library
 U.S. Geological Survey
 Geografika Consulting

