

Restoring 1,200 feet of stream channel by removing several sediment sources from a tributary to Scotts Creek, Napa County, California

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Project Background

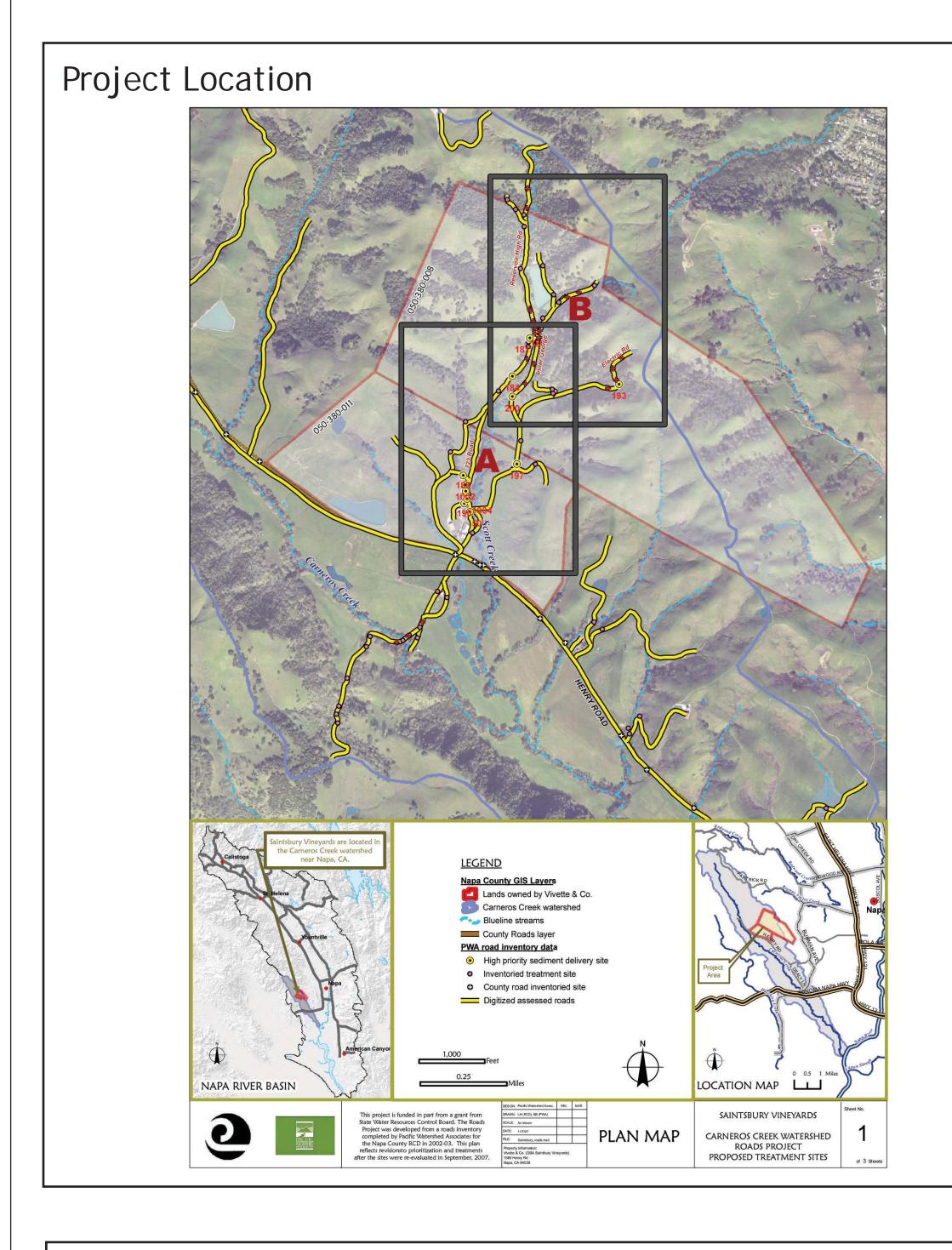
Pacific Watershed Associates (PWA) partnered with the Napa County Resource Conservation District (NCRCD) and Natural Resources Conservation Service (NRCS) to restore nearly 1,200 ft of intermittent stream channel on the Saintsbury Vineyards property in the Carneros Creek watershed, Napa County, California

The project site is located along a tributary to Scotts Creek, approximately 0.5 mi upstream from the confluence with mainstem Carneros Creek. The area was originally disturbed in the 1940s with the construction of a road network, including the construction of 3 stream crossings. The project site was further altered in the mid-1990s with the construction of 3 earthen dams along the stream channel to create livestock ponds.

PWA conducted an assessment of road related erosion on selected parcels in the Carneros Creek and Sulphur Creek watersheds in 2002 and 2003. During the assessment, the 3 culverted stream crossings and 3 earthen dams at the Saintsbury project site were found to be partially eroded. Field assessment data revealed that this site represented the largest anthropogenic source of sediment observed in the Carneros Creek watershed.

Funding through Scannell Properties #91 LLC and a State Water Resources Control Board 319h grant was secured by the NCRCD to treat erosion sites in the Carneros Creek waterhed, including the Saintsbury project site. PWA was subcontracted by the NCRCD to develop the erosion control treatment plan, layout the specific treatments in the field, and supervise the implementation of the project. Erosion control and erosion prevention treatments were implemented in the summer of 2009.

PWA estimates that implementing this project resulted in the prevention of nearly 5,500 yd³ of sediment from delivering to Carneros Creek and its tributaries.



Scope of Work

1) Remove fill from 3 eroded earthen dams (Sites #1002, #1003, and #1004)

- 2) Decommission a culverted stream crossing (Site #190) 3) Upgrade 2 culverted stream crossings (Sites #188 and #500)
- 4) Reestablish stream channel sinousity and the floodplain
- 5) Recontour stream channel side slopes to match adjacent natural hillslopes 6) Install cattle exclusionary fencing
- 7) Revegetate project area with native riparian vegetation

Special thanks to the Natural Resource Conservation Service; Scannell Properties #91 LLC, SWRCB; Harvest Middle School, Napa; David Graves; Richard Ward; and Mary Pettis-Sarley

