

**Estero Americano Watershed Sediment Reduction Project, Phase II, Sonoma and Marin
Counties, CA**

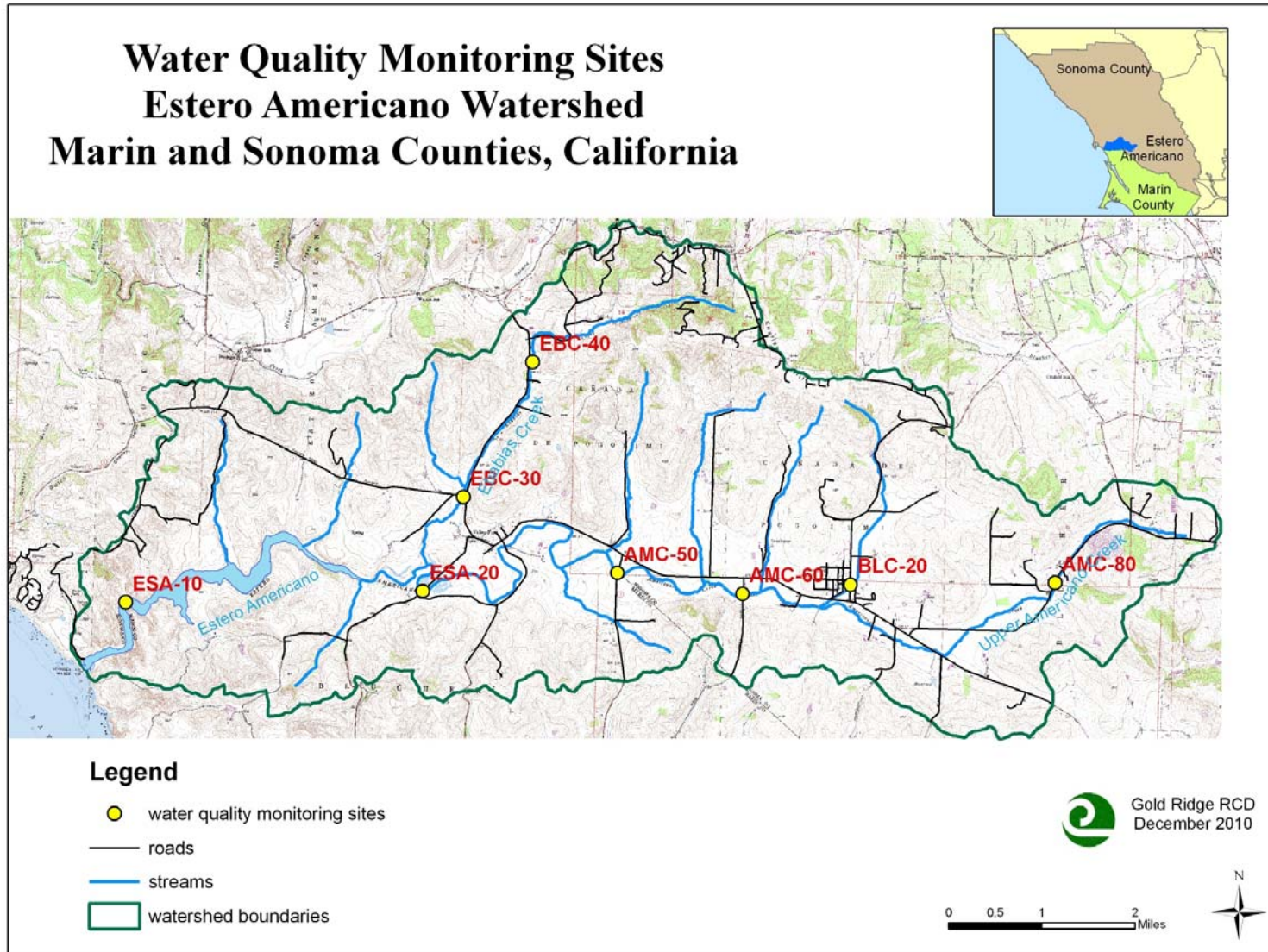
**Draft Quarterly Monitoring Report
Item B.4.2**



This quarterly report summarizes data collected from June through August 2013 under the SWRCB 319(h) funded Estero Americano Watershed Sediment Reduction Project, Phase II. The data period included a late spring sampling event on June 19, 2013 and based on the lack of streamflow, no additional monitoring was conducted during the data period.

During the June 19 sampling event, the only sampling sites that were observed to have surface water available to sample from, were AMC80, the upstream most site on Americano Creek, and ESA20, the downstream-most site on the Estero Americano. Due to the lack of continuous, connected streamflow, no sampling was conducted.

Figure 1: Map of sampling locations throughout the Estero Americano Watershed.



Water Quality Objectives/Targets

As with previous GRRCD evaluations of water quality in the Estero Americano Watershed, the Water Quality Objectives or comparative thresholds are listed in the table below. The North Coast Regional Water Quality Control Board (NCRWQCB) has not set numeric standard water quality objectives for the Estero Americano Watershed, which falls into the “Bodega Bay” water body description (NCRWQCB, 1994). Statewide criteria set by the US Environmental Protection Agency (EPA), Region 9 (US Environmental Protection Agency, 2000) and/or the objectives for the nearby Russian River water body by the North Coast Regional Water Quality Control Board (NCRWQCB, 1994) have been used as targets and are outlined in Table 2 below.

Table 1: Water Quality Objectives.

| Parameter (reporting units) | Water Quality Objectives | Source of Objective |
|--------------------------------|--|---|
| Dissolved Oxygen (mg/l or ppm) | Not lower than 7 | North Coast Region Basin Plan Objective for Cold Water Fish |
| pH (pH units) | Not less than 6.5 or more than 8.5 | General Basin Plan objective |
| Water Temperature (°C) | Not to exceed 21.1 | USEPA (1999) 20-22 range, supported by Sullivan (2000) |
| Conductivity (uS) | None established | N/A |
| Nitrate as N (mg/l) | Not to exceed 1.0 | |
| Ammonia-Nitrogen (mg N/l) | Not to exceed 0.5 | USEPA (2009) |
| Orthophosphate (mg/l) | Not to exceed 0.10 (for streams and flowing waters not discharging into lakes or reservoirs) | USEPA(2000) |
| Turbidity | 1. Not to exceed 55 NTUs during low flow; 2. not to exceed 150 NTUs during storm events | GRRCD selected thresholds, 1. Supported by Sigler (1984); 2. supported by Newcombe (2003) |

Results and Discussion

There are no water quality monitoring data or results to discuss for this quarter.

