

**Brief plan for the EMC to address concerns raised for EMC-2017-001, UC Davis Nutrient Study:**

**Approaches for CAL FIRE/USFS PSW to undertake:**

1. Conduct a post-harvest survey for each of the 3 South Fork nutrient study sub-watersheds to be harvested (TRE 35% harvest, UQL 55% harvest, ZIE 75% harvest) to document the amount of soil disturbance.

Rapid mapping of sediment hotspots (significant amounts of bare soil near stream channels), using research grade GPS. PSW completes annual erosion surveys for gaged tributaries.

2. Conduct a post-harvest survey for each of the 3 harvested South Fork nutrient study sub-watersheds to document the amount of organic debris and sediment delivered to each of the channels.

Rapid mapping of significant volumes of fine and coarse organic debris and sediment deposited in or near stream channels with research grade GPS. PSW completes annual erosion surveys for gaged tributaries.

3. Produce a stratification of the yarding methods used in the 3 South Fork nutrient study sub-watersheds harvested to further quantify the amount of disturbance in basin.

Field verify THP-specified yarding with research grade GPS mapping.

4. Document the soil types present in each of the 4 South Fork nutrient study sub-watersheds.

Use NRCS web soil survey (<https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>) SSURGO data; determine if significant background differences exist (e.g., soil chemistry) that could influence nutrient and sediment input to stream channels.

CAL FIRE and PSW added the following task to 2017/2018 Caspar Creek Annual Workplan on May 10, 2017:

- A. Develop a plan for conducting post-harvest disturbance mapping in South Fork Caspar Creek, including (1) mapping significant amounts of bare soil near stream channels, (2) significant volumes of organic debris and sediment deposited in or near stream channels, and (3) field verification of THP-specified yarding methods.**

Water sampling for the nutrient study is being conducted for the following SF Caspar Creek sub-watersheds:

WIL (0% harvest, control)  
TRE (35% harvest)  
UQL (55% harvest)  
ZIE (75% harvest)