**Activity Sheet for Lab 9**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2b.** What is the decimal latitude and longitude of the middle of the part of Wallace Creek that flows NW along the San Andreas fault trace?

 latitude: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ longitude: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3h(f-j).** What are the UTM coordinates for the middle of the active channel of Wallace Creek that flows NW along the San Andreas fault trace?

 UTM zone\*: \_\_\_\_\_\_\_\_\_\_ easting: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_nE northing: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_mN

**3h(k).** Could you have located the place where Wallace Creek is deflected along the San Andreas fault from the topographic lines alone, without the orthophotoquad (the aerial photo)?

 Explain your answer (how, why not, etc.)

**3h(l).** Do the topographic contours seem to reflect accurately the shape of the ground surface as shown in the orthophotoquad layer?

 Estimate the uncertainty in the topographic contours, compared with the information in the orthophotoquad. For example, what is the difference (in meters) between a given drainage channel in the photo compared with where the topographic contours indicate where the channel is located?

**3i.** What is the color of the main San Andreas fault trace at Wallace Creek, as shown in the interactive map of the Quaternary Fault and Fold Database of the United States?

**3j.** What is your job number related to the Wallace Creek dataset you downloaded from OpenTopography.org?

**3j(k).** What is the fourth number in the seventh row of the "output.tin.asc" dataset that you downloaded and examined using a text editor? To be clear, this is the fourth number in the row just below the six header rows in that file.

Rename this document by inserting your last name in the obvious spot, and submit your answers to the "Lab 9 Activities" assignment space in Canvas.