



**CALIFORNIA STATE SCIENCE FAIR
2011 PROJECT SUMMARY**

Name(s) Monica M. Criley	Project Number 31028
Project Title Greywater vs. Tap Water	
Objectives/Goals The purpose of my project was to find out if greywater benefits plant growth and health more than tap water. Abstract Methods/Materials Methods/Procedures: Select 3 different types of garden plants, 10 of each. Put each seed in a ziploc bag with a moist paper towel soaked in designated water. Place all of the plants into a partially sunny area. Water 5 of each type of plant with tap water and 5 of each type with grey water (depending on plants, equal amounts for each variety). Observe the growth of the plants for 30 days and record their heights every 5 days. Materials: Container of tap water and container of greywater, 30 plants, 3 varieties, 10 seeds each- radish, sweet pea, bean plant (15 total for tap water, 15 total for greywater), sunlight area for plants to grow, 30 ziploc bags, eye dropper, metric ruler. Results Overall, two out of three of the plant varieties being fed greywater benefited more than the plants being fed tap water. (The radish plants did not fair as well from greywater and died perhaps from being over-watered, even though it was being watered the same amount as the other plants.) From what I saw, it appeared that the greywater had no negative effects on the plants and they even looked as though they were healthier than the tap water plants. Conclusions/Discussion My conclusion is that greywater fed plants will benefit equally if not more in the growth of tap water fed plants. I also noticed less mold growth in the greywater plants which could be a source for another investigation.	
Summary Statement My project is about the effects of greywater and tap water on vegetation.	
Help Received My father helped me select the seed types and provided me with two books on greywater by Art Ludwig. My mom helped me with board layout.	