

## CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s) Chantel Alarcon; Kellie Crisman; Alana Richert	Project Number J1201
Project Title Testing Local Water Sources for Contaminants	
Objectives/Goals Abstract   The objective of this project is to test water samples from a well, a spring determine which results had the most contaminants. We are testing each bacteria, copper, iron, nitrites, nitrates, pH, hardness, alkalinity, and total out most was that city pumped water and well water both tested positive result was that spring water tested for 1.3 ppm of copper, which is the lir consumption. In conclusion, this project taught us about local water pollutest our drinking water.   Methods/Materials For materials, we used 3 water testing kits, a timer, water samples, and we collected water samples then tested each water based on the instructions   Results The well water and the city pumped water tested positive for lead. iron, r tested at 0 ppm. For spring water copper tested at 1.3 ppm, which is the l water had much less hardness and alkalinity the the other two sources. pl samples.   Conclusions/Discussion Our results supported our hypothesis that well water so the community g are consuming. Further testing would be needed to determine the impact sources.	sample for lead, pesticides, l chlorine. The result that stood for lead. Another interesting mit of the safe zone for human ution and that it is important to vater tight containers. We in the test kits. hitrites, nitrates and chlorine all limit of the safe zone. Spring H tested at 9 for all three for the st contaminants out of the three gains awareness the water they
Summary Statement The objective of this project is to test water samples from a well, a spring determine which results had the most contaminants.	g, and city pumped water to
Help Received My science teacher, Ms. Mayne, provided the materials, a printer, and a	board.