

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)	Project Number
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	38037
Project Title	
Testing Local Water Sources for Contaminants	
Abstract	
Objectives/Goals The objective of this project is to test water samples from a well a spring	Ol Ary purport water to
determine which results had the most contaminants. We are testing eachs	ample for lead pesticides
bacteria, copper, iron, nitrites, nitrates, pH, hardness, alkalinity, and total	chlorine. The result that stood
out most was that city pumped water and well water both tested positive for	head Another interesting
result was that spring water tested for 1.3 ppm of copper which is the limit	it of the safe zone for human
consumption. In conclusion, this project taught us about local water polled	ion and that it is important to
Methods/Materials	
For materials, we used 3 water testing kits, a timer, water samples, and we	ter tight containers. We
collected water samples then tested each water based on the instructions in	n the test kits.
Results	trites nitrates and chlorine all
tested at 0 ppm. For spring water copper tested at 2 ppm, which is the li	nit of the safe zone. Spring
water had much less hardness and alkalinity the the other two sources. pH tested at 9 for all three for the	
samples.	
Our results supported our hypothesis that well water would have the most contaminants out of the three	
sources of water. The purpose was to test local water so the community gains awareness the water they	
are consuming. Further testing would be needed to determine the impact of the contaminants in these	
sources.	
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Summary Statement	
The objective of this project is to test water samples from a well, a spring, and city pumped water to	
determine which results had the most contaminants.	
Help Received	
My science teacher, Ms. Mayne, provided the materials, a printer, and a board.	