

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)		Project Number
Audrey M. Meadows	5	
		J0614
Ducient Title		
Project Title Water Originated	Corrosion	
8		
	Abstract	
 Flint, Michigan in April of 2 be found. Methods/Materials Measured the corrosion of b amount of corrosion was det inductively coupled atomic p the water. Results The concentration of iron pr another. The results showed calcium and magnesium, wa the water containing no diss. Conclusions/Discussion This project validates that the effect the rate of corrosion in	t was to establish an answer as to why the wa 2014. This project also works to understand head plack iron pipe under the effect of water of the termined through the concentration of iron in plasma spectrometer (ICP) was used to meas resent in each sample at the end of the experi- tat the water with the greatest amount of de as the least aggressive and caused the least an olved solids caused the most corrosion of the nere is a difference between water chemistrie n metals. The results of this experiment can hear chemical to prevent events similar to	how a solution to these events can aree different chemistries. The n each water sample. An sure the concentration of iron in iment was compared to one issolved solids, most notably mount of corrosion. Conversely, e metal pipe. es and that their properties will be used to aid research regarding
Summary Statement I tested the effects of three v of black iron piping.	vater samples, all of different chemistry, and	I their effects on the corrosion rate
Help Received		

I received help from Babcock Laboratories, specifically Mr. Kyle Andrew and Mr. Brad Meadows (my father), in order to set up the experiment and analyze my data.