

CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

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Name(s)	Project Number
Julia Jeck	
	36312
Project Title	
Is Grev Water Green?	
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Abstract	
Objectives/Goals	
The objective of this experiment was to determine whether or not biodegradabl	and on-biodegradable
grey water affect now neros grow.	
The method included growing three sets of 12 herb plants from seed Each of the	entree sets was watered
every other day for 22 days with either grey water made in a washing machine	with biodegradable soap;
grey water made in a washing machine with non-biodegradable soap, or freshy	ater (control group). Plant
growth and pH was measured to determine the impact, if any, the two types of	grey water had on plant
growth and soil alkalinity.	
The herbs that grew the best were watered with non-biodegradable grey water a	and the herbs that grew the
worst were watered with biodegradable grey water. The non-biodegradable gre	y water lowered the pH of
the soil, creating a hospitable environment for the plans to grov, while the bio	degradable grey water
increased the pH of the soil and created a less hospitable environment for the p	lants to grow.
The results of the experiment did not support ny supported that he	th biodegradable and
non-biodegradable grey water would harm plant wowth, with biodegradable gr	rev water being less
harmful than non-biodegradable grey water	
\bigcirc \checkmark	
Summary Statement	
I learned that herb plants grow better with non-biodegradable grey water than w	with biodegradable grey
water of plain ap water.	
Help Received	
My father, Eric Jeck, helped me research how to measure pH and organize my	results.