

CALIFORNIA STATE SCIENCE FAIR 2006 PROJECT SUMMARY

Name(s) Olivia E. Wong	Project Number J0932
Project Title Chemical Disinfections and Sanitizati	on of Recycled Water
Objectives/Goals Abstract The objective is to compare the bactericidal effects of c wastewater. Methods/Materials Water sample from septic wastewater S, septic water trassolution C2 (10% of chlorine 1), septic water treated wit of Iodine 1), were plated aseptically to each nutrient age counted after twenty- four hours of incubation period. 'Then, the average numbers of bacterial growth versus d water were graphed. The morphology of the bacteria w was heat-fixed on the glass slides and stained with gran Results The slope of chlorine disinfectants is steeper than the sl bactericidal effects of iodine is more than chlorine. Conclusions/Discussion Chlorine is less effective than iodine in sanitization of r	hlorine versus iodine disinfectants on the recycled eated with chlorine solution C1 and chlorine ith iodine solution I1 and iodine solution I2, (10% ar plate. The numbers of bacterial colonies were The procedure was repeated for two more trials. lifferent concentration of disinfectants and septic vas studied under the microscope after the bacteria in stain. ope of iodine for bacterial growth. Thus, the
Summary Statement The disinfection effects of tincture iodine versus chlorin water.	ne is compared in the sanitization of the recycled
Help Received Sincere thanks to Mrs. Griego for her invaluable help of	f presenting the information needed. Secondly, I

Sincere thanks to Mrs. Griego for her invaluable help of presenting the information needed. Secondly, I appreciate Suzie Khoo for giving me access to microbiology equipment. Thirdly, special gratitude to San San Wong for visual displays of the science board. Lastly, I give recognition to David Wong for editing.