

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s) **Project Number** Anastasia V. Mizina 22005 **Project Title** Pure Water-Safe Earth: The Effect of Different Filters Time It Takes to Filter the Water and on Quality of the Water **Abstract** Objectives/Goals In my experiment I wanted to find out how different filters(coal, charcoal, kelp nd)effected the time it took the water to filter and on quality of the water. Methods/Materials I used granulated coal, charcoal, kelp and sand. I put them into a patter filter which was in a funnel one at€ a time, and i put a 10cm long plastic tube at a 45 degree angle into the filter, and i poured 300ml of water€ with 7 drops of oil and some dirt through it. I timed how ong it took the water to filer and i compared the€ water to my scale of cleanness. I did 13 and 14 trials. **Results** The fastest filter was sand with 21.7 seconds and the slowest filter was kelp with 27.5 seconds. The coal was the best quality filte with 4.69 and the worst quality filter was keep with 4. **Conclusions/Discussion** My hypothesis was supported because sand was the quickest fixer and coal was thre best quality filter. Knowing the data about the ability of natural filters we know can use them in our drainage system, so the the water that goes into the ocean is oil and dirt fr **Summary Statement** w different natural filters clean dirty oily water My project is about I Help Received My parents bought my materials