



**CALIFORNIA STATE SCIENCE FAIR
2006 PROJECT SUMMARY**

Name(s) Lauren E. Markgraf	Project Number S0610
Project Title Is Stringfellow Contributing to Nitrate Levels Found in Local Wells?	
Abstract Objectives/Goals The objective of this project is to determine if there is nitrate runoff coming from a dumpsite know as "Stringfellow", and showing up in local water wells. Methods/Materials The water samples were taken from three sites using plastic 32oz. sample containers, and chilled at 39 degrees fahrenheit until testing conditions were ready. Approximately 24 hours later the three samples were tested with the equipment used at a facility known as West Municipal Water District where each sample's nitrate ppm (parts per million) was established. They were all tested once with accurate results. Local (Glen Avon) city water was tested as well for comparison,then all four results were plotted on a map of the surrounding area. Results Based on data collected from these tests and considering geographical factors,i have found that there is no nitrate plume coming from Stringfellow, but there was a plume coming from somewere south-east of the site. Conclusions/Discussion I have concluded that there is no evidence that there is a nitrate plume coming from Stringfellow,but my data shows that there is one that seems to be coming from a source south-east of the site. I plan on furthering my project to find out where this source is and why a plume has formed from it.	
Summary Statement I have determined that there is no evidence that suggests a nitrate plume coming from the toxic waste dump-site known as Stringfellow.	
Help Received History and historical facts, about Stringfellow was received from Mary Burns, Jurupa School Board and Cultural Center; Betty Stinson, Stringfellow Library; Steve Mains, Water Master Support Sevices; Carol Wilson, Fall 2005 Cooperative Well Measuring Program. Additionally, the equipment and facility was	