

## CALIFORNIA STATE SCIENCE FAIR 2010 PROJECT SUMMARY

Name(s)	Project Number
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Project Title	
Who Dunnit?	
Abstract	
Objectives/Goals	
The objective is to isolate sources of pollution in the Santa Ana wate Fingerprinting, and develop a better understanding of the Nitrogen ( days and the end of the dry season. Methods/Materials	ershed using Nitrogen Isotope Cycle by comparing samples from rain
Use Various tools to filter, and test the samples, in including Mass S Combustion system, Fiber Glass filter, and much more. Use NIST st equipment.	Spectrometer, Reagents, Freeze-Dryer, tandards to compare and calibrate
Results	
The delta value of N15 decreased over rain days, and Nitrogen amon found between the amount of nitrogen and the delta N15 value. Hide range indicating sewage water. City Creek was within natural limits result in a presence of fertilizer or a natural source. Rancho Jurupa results could perhaps be explained by it exclusion from flowing wat	unt went up. Also a correlation was den Valley and Prado both fell in the as was Sycamore Creek, which could Park was the Outlier, and its odd er.
<b>Conclusions/Discussion</b> To further this project it would be beneficial to analyze the samples reference graph to better pinpoint the sources of pollution.	for Delta O18 and use the cross
Summary Statement	
Using Stable Nitrogen Isotope Fingerprinting to isolate sources of r	collution in the Santa Ana Watershed.
Help Received	
Used Lab equipment at University of California in Riverside under	the supervision of Dr. Sickman. Dr.

Used Lab equipment at University of California in Riverside under the supervision of Dr. Sickman. Dr Sickman also helped us approach our final topic. Parents helped drive us to sampling sites and gather required materials.