



**CALIFORNIA STATE SCIENCE FAIR
2009 PROJECT SUMMARY**

Name(s) Lilly Keating-Mayfield; Esther Razo	Project Number J1210
Project Title The Water Runs Through It	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals What is the oxygen,NO₃(nitrate) and NO₂(nitrite) levels in Gibson,Orr,McClure,Mill and Hensley creeks,and the health of the water relative to these levels. We hypothesized that Hensley Creek would have the highest oxygen level,because of a recently built fish ladder there.(the fish would die with out sufficient oxygen)</p> <p>Methods/Materials Materials:GLOVES,STERILIZED BOTTLES,NO₂ and NO₃ TEST STRIPS,LOG BOOK,WRITING UTENSILS ,OXYGEN READER and CAMERA. We collected the water samples(properly),used the OR (oxygen reader) within 15 minutes (to assure an accurate reading),used the test strips for nitrates and nitrites, then compared the color to the chart on the test strip container.</p> <p>Results All the creeks tested clear of nitrite and nitrate pollution. All the creeks had healthy oxygen levels.</p> <p>Conclusions/Discussion We observed a lot of trash accumulating in the area of all five creeks,so we were surprised that there was no sign of Nitrates or Nitrites in any of the creeks. We were also surprised that the creeks had healthy Oxygen levels considering we are in the middle of a drought.</p>	
Summary Statement The health of our local creeks.	
Help Received Used lab equipment at Alpha Analytical Laboratories under the supervision of Zee and Bruce.	