



**CALIFORNIA STATE SCIENCE FAIR
2016 PROJECT SUMMARY**

| | |
|--|------------------------------------|
| Name(s) Angie Castro; Jessica Manlapeg Schager | Project Number 36668 |
| Project Title Wetlands and Water Quality | |
| Abstract Objectives/Goals The purpose of our project was to determine if water in wetlands differs from its source depending on the aquatic flora and fauna. Methods/Materials Two synthetic wetlands were tested for chlorine, alkalinity, nitrate, nitrite, ammonia, hardness, pH, turbidity, and temperature using a water sampling kit. The source of the two wetland pools was tested for the same aspects to see how the water quality changed. Results Our results show from the two pools, the water quality overall improved more in the pool with plants and fish. In contrast, the barren pool had higher levels of chlorine, pH, turbidity, and nitrite making it stray from ideal water conditions. Conclusions/Discussion Our conclusion is that plants and fish in wetlands help improve the water quality of the source flowing into the pool. This supported our hypothesis which was that the pool with aquatic life would be an ideal environment. | |
| Summary Statement Our project focuses on how aquatic fauna and flora may be evidence of healthy water quality in riparian pools. | |
| Help Received None. The experiment was preformed by ourselves. | |