

CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s) **Project Number** Jessica A. Schager 35776 **Project Title Nurdles and Ports Abstract Objectives/Goals** The purpose of my project was to determine if the amount of nurdles found on the sh eline could be affected by the distance from a port. Nurdles are the raw form of plastic products and are found in small, lightweight pellets. The site closest to the port seems the most likely to have the largest amount of nurdles since they could be easily spilled during transportation. Methods/Materials Three different sites on the south side of the Long Beach port were chosen to conduct nurdles counts in five trials. A measuring tape was used to mark off a 60 centimeter square in the sand. Nurdles were collected using a sifter and counted from that square. The average of the trials were taken for each site and compared to one another. Results My results show from the three sites I went to, the site fartnest from the port had the largest amount of nurdles. In contrast, the site closest to the port had the least amount of nurdles on the shoreline. **Conclusions/Discussion** The amount of nurdles I found on the shore supports the idea that nurdles are not necessarily concentrated at ports since there was not a correlation. Ports are protected by a wall to prevent large waves from entering the port. The currents may lave greater impact on the amount of nurdles which may expain why there were more nurdles outside of the projected port. This is important because by knowing ports are not a main source of nurdle spills helps to narrow down where the real problems occur during the transportation of nurdles. Summary Statement he issue of whether or not there is a concentration of manufactured plastic pellets at sence cargo ships that potentially transporting them. ports due to the pre Help Received Mother drove me to sites