

PIMCO Cleanup, July 30 2011

Huntington State Beach, Santa Ana River Mouth, 9:00-11:00 AM



Event Summary

- Weather Conditions: Partly cloudy, breezy
- Low Traffic Area
- High Tide
- Cleanup conducted within approximately 100 meters of Santa Ana River outlet
- Plastics and Degraded Debris Analysis:
 - 4 transects, 10 meters apart
 - 12 meter distance from rack line to fence, sift sites 3 meters apart (Rackline, 8m, 12m)
 - Undefined location of sift sites for 7 sites
- Styrofoam... "Insane Amount," "Countless," "Too many to count," "Lots!" "Unlimited," "I can't believe how much Styrofoam there is!"
- Interesting debris: Hot Wheels, chopsticks, tennis balls, Legos, light bulbs

Conclusions

- Largest Problem: Land-based runoff sources and debris from beach activity
 - Low-traffic area, so most likely that most debris is largely due to runoff from Santa Ana River
- Fragmented Styrofoam and plastics are the most prevalent, persistent debris by far
 - Persistence is demonstrated by its presence in fragmented debris analysis

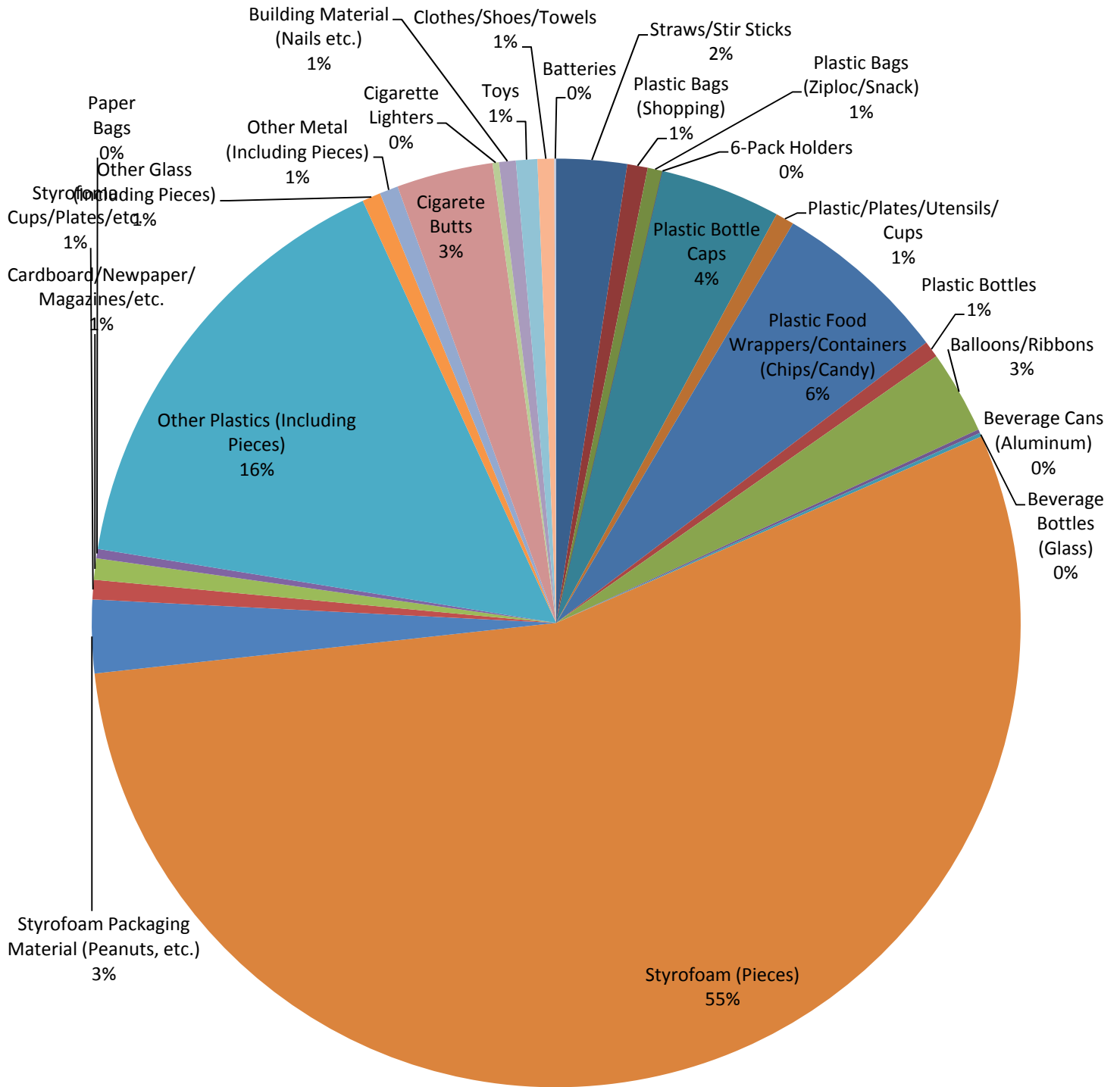


The mission of Orange County Coastkeeper is to protect and preserve the region's watersheds and marine habitats through education, advocacy, restoration, research, and enforcement.



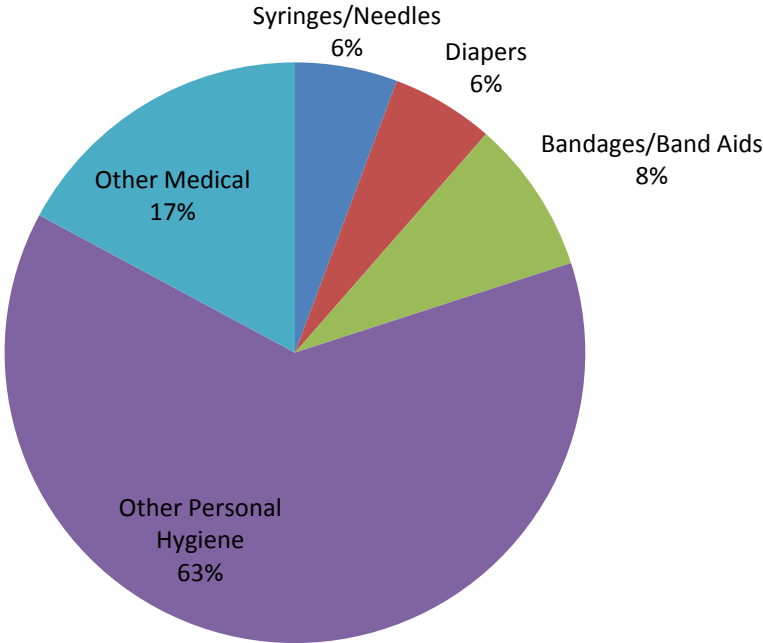
Hungintgon State Beach Cleanup, Santa Ana River Mouth 7/30/11

Beach Activity & Land-Based Runoff Sources



Huntington State Beach Cleanup, Santa Ana River Mouth 7/30/11

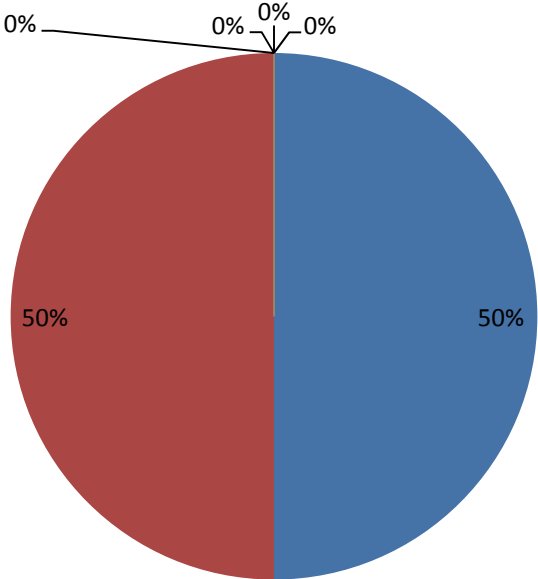
Medical/Personal Hygiene Sources



Huntington State Beach Cleanup, Santa Ana River Mouth 7/30/11

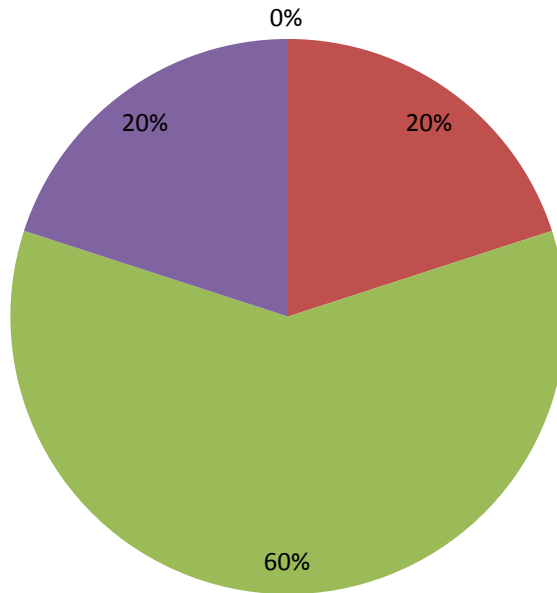
Ocean-Based Sources

■ Rope ■ Fishing Line ■ Fishing Hooks ■ Floats/Buoys ■ Cruise Line Logo Items ■ Fishing Nets

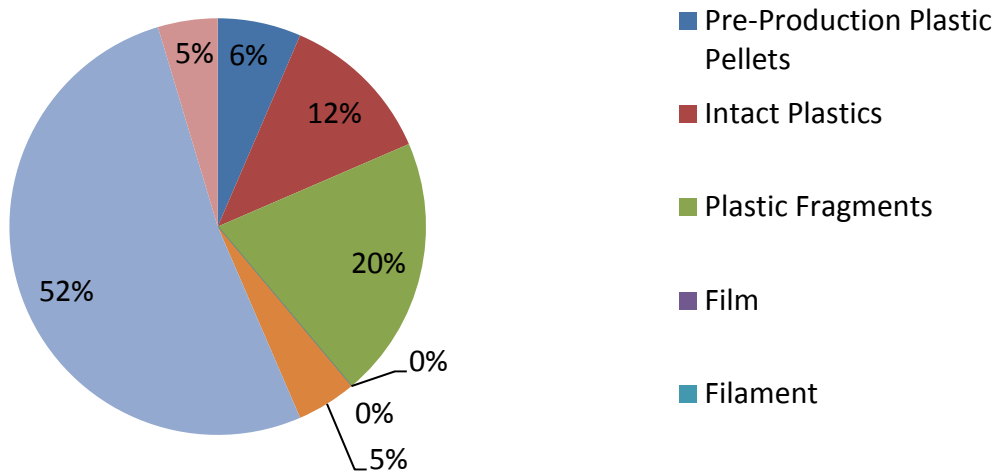


**Huntington State Beach Cleanup, Santa Ana River Mouth 7/30/11
Illegal Dumping Sources**

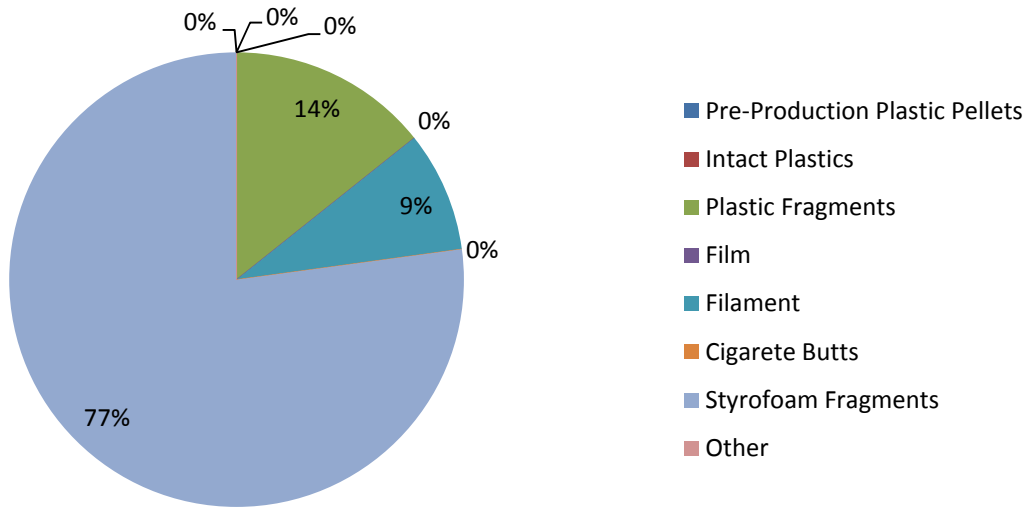
■ Car Batteries ■ Appliances ■ Tires ■ Car Parts



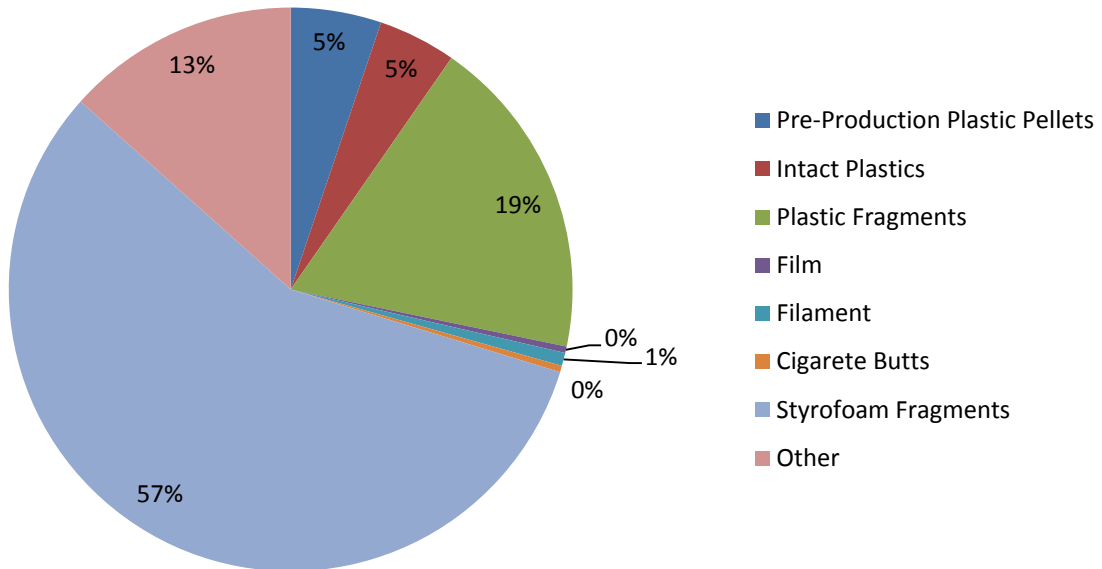
**Huntington State Beach Cleanup, Santa Ana River Mouth 7/30/11
Small Debris Analysis
Middle of Beach**



Huntington State Beach Cleanup, Santa Ana River Mouth 7/30/11
Small Debris Analysis
Rackline

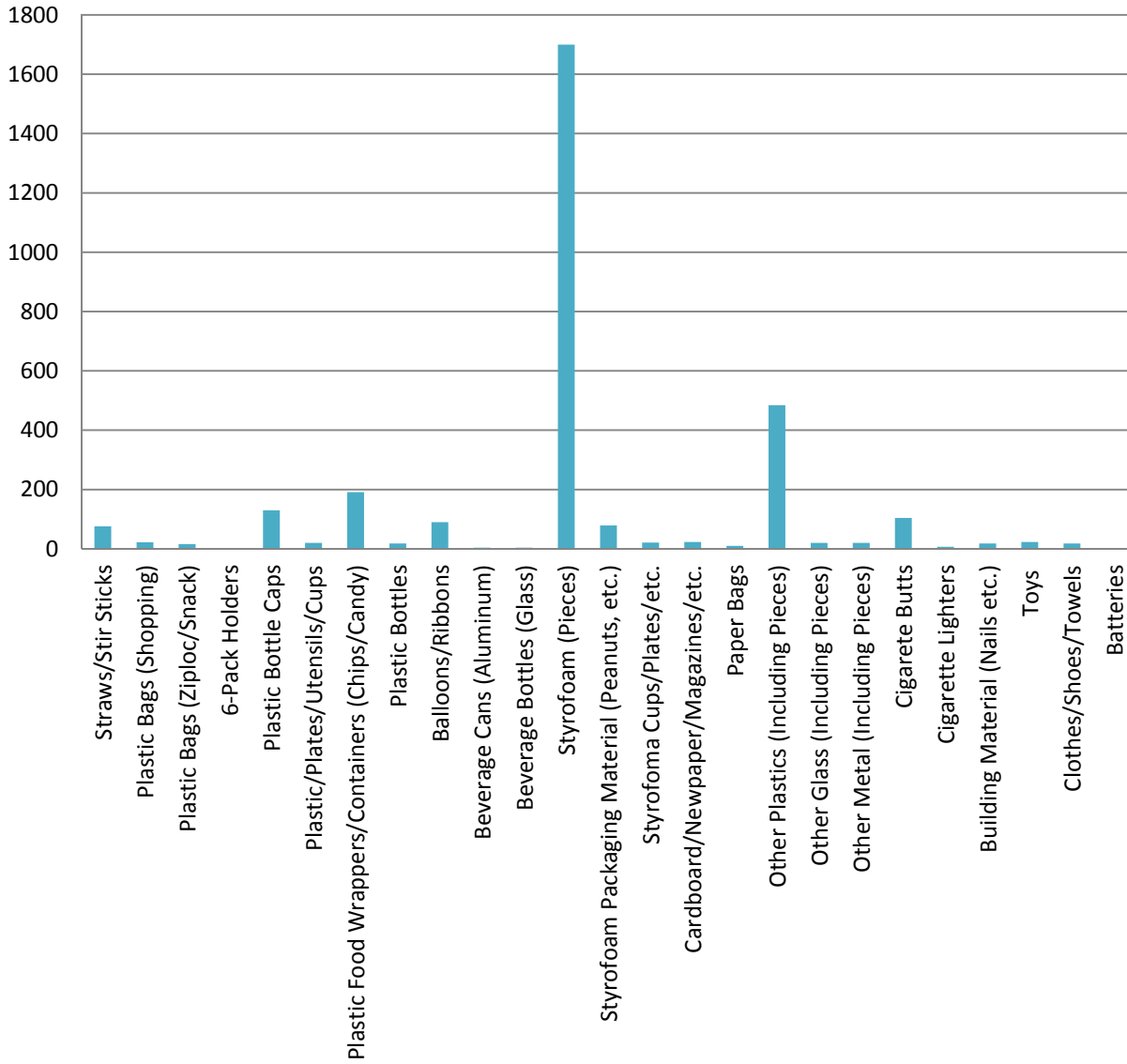


Huntington State Beach Cleanup, Santa Ana River Mouth 7/30/11
Small Debris Analysis
All Other Sift Sites

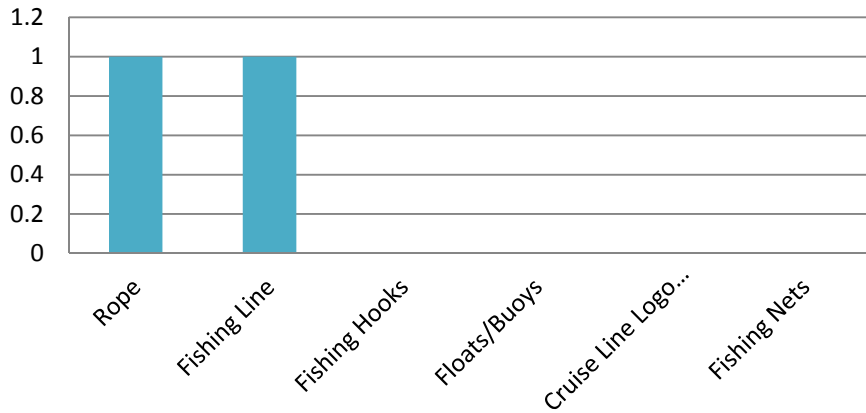


Huntington State Beach Cleanup, Santa Ana River Mouth 7/30/11

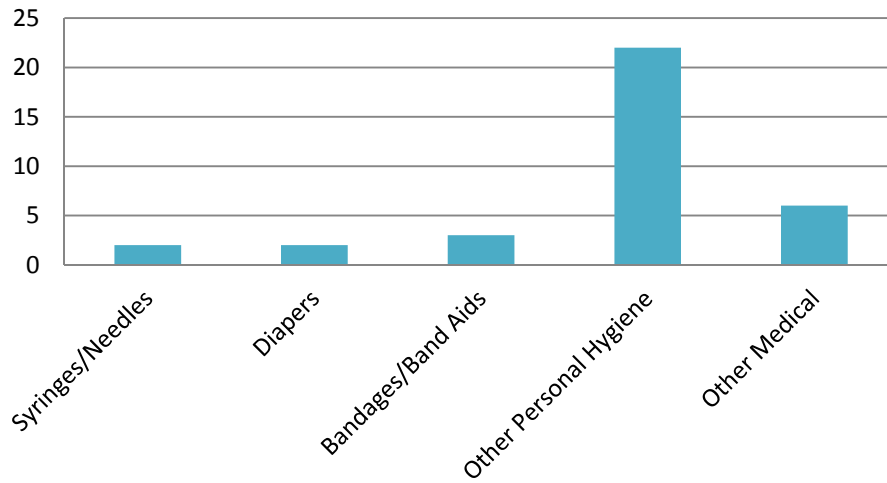
Beach Activity and Land-Based Runoff Sources



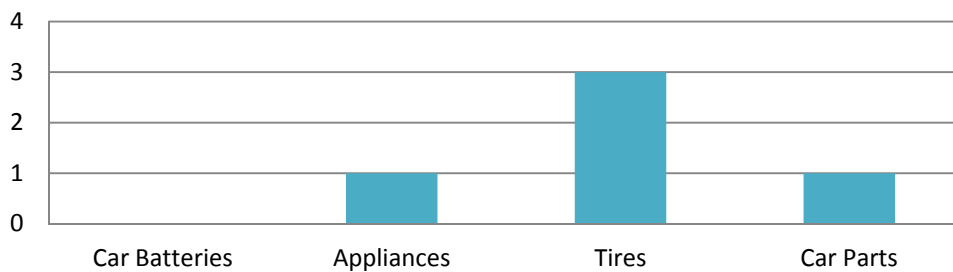
Huntington State Beach Cleanup, Santa Ana River Mouth 7/30/11 Ocean-Based Sources



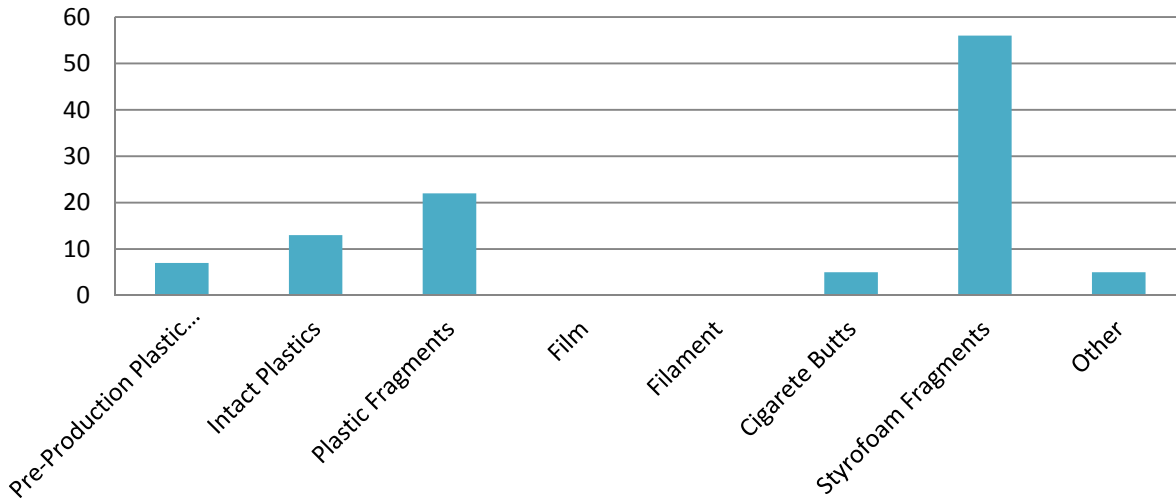
Huntington State Beach Cleanup, Santa Ana River Mouth 7/30/11 Medical/Personal Hygiene Sources



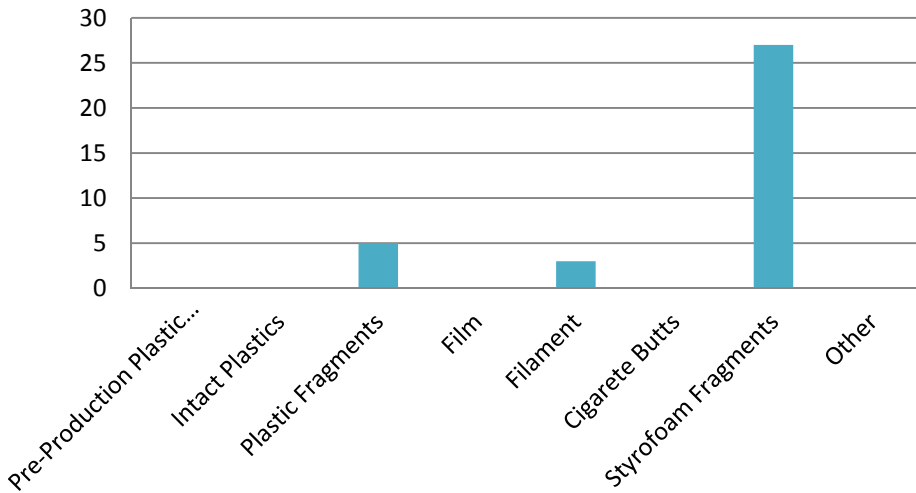
Huntington State Beach Cleanup, Santa Ana River Mouth 7/30/11 Illegal Dumping Sources



**Huntington State Beach Cleanup, Santa Ana
River Mouth 7/30/11
Small Debris Analysis
Middle of Beach**



**]Huntington State Beach Cleanup,
Santa Ana River Mouth 7/30/11
Small Debris Analysis
Rack Line**



Huntington State Beach Cleanup, Santa Ana River Mouth 7/30/11

Small Debris Analysis All Other Sites

