

# Micro Plastic

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# *Wild Life*

- Fish, sharks, and turtles die, entangled in discarded ropes and nets
- Sea turtles' shells are deformed by suffocating plastic bands they can't remove
- Humpback whales drag plastic nets that both cut into their flesh and impair their hunting





## *Where Does All This Plastic Come From?*

- Bottle caps, cigarette lighters, plastic nets, discarded flip flops, Frisbees, soda bottles, milk jugs, six-pack rings, busted tennis rackets, empty pens, shampoo bottles, empty bottles.

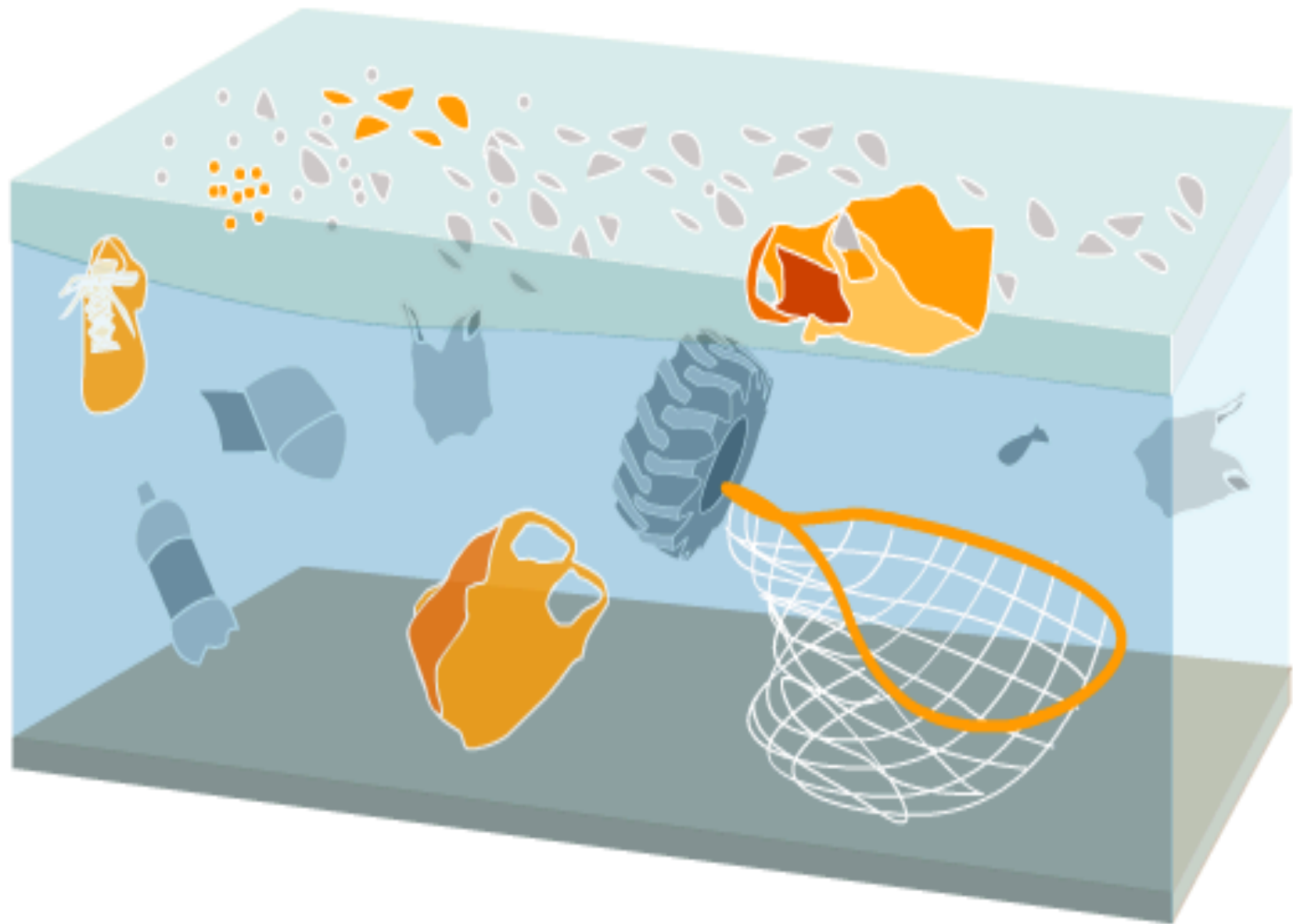






# *What Is The Pacific Garbage Patch?*

- Ocean currents collect floating garbage for thousands of miles and drop it into the North Pacific Subtropical Gyre, one of the several major ocean vortices around the world.



SOURCE: NOAA Greenpeace





# *Our Project*

- We are trying to figure out how much plastic is on Kalama Beach.
- Ten test holes were dug in-between student survey plots to determine the downward migration of micro-plastic below the surface of the sand.
- The test holes were 12 inches deep by 36 inches long.

# *The Day Of Science*

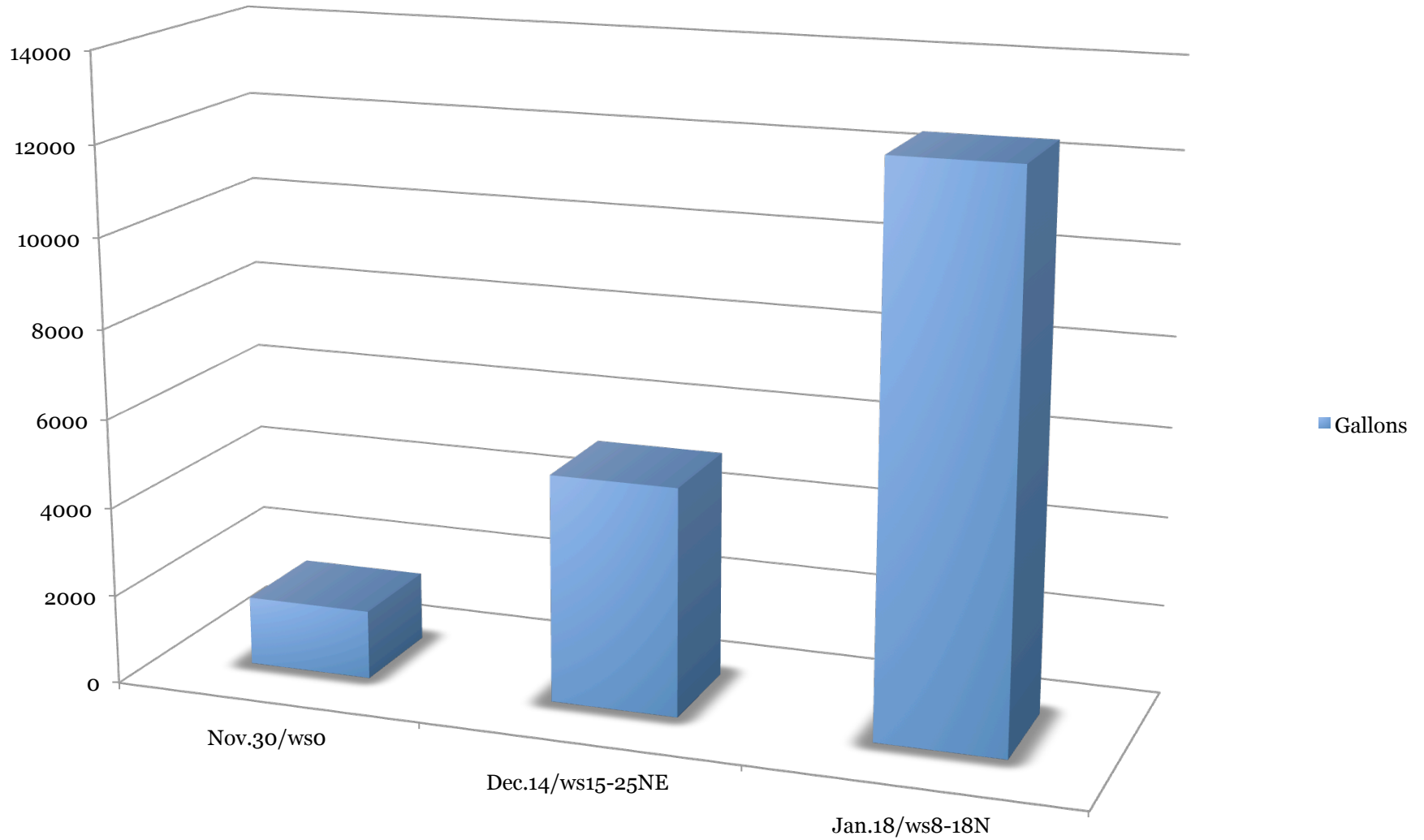


# *Supplies*

- Bucket
- Yarn
- A small net
- 4 stakes
- Tape measure



# Micro Plastic on Kailua Beach





## *Data from the Micro Plastic Research on the First Day*

- 11/30/12
- Tide level: 1.0
- Wind speed 0
- The amount that was on the beach that day was estimated to be 5845L.



## *Data From the micro Plastic Project on the Second Day*

- 12/14/12
- Tide Level 98ft
- Wind speed 15/25
- The amount of plastic on kailua beach that day was estimated to be 19,329L



## *Data from the micro Plastic Research on the Third Day*

- 1/18/13
- Tide level: 33Ft.
- Wind Speed: 8/18
- We estimated that there was 12,454 visual gallons on kailua beach and 47,104L on all of kailua beach that day.



## *How Is It Affecting Us*

- People won't pay to live on the beach if its all covered in plastic.
- For every 1 pound of plankton there is 6 pounds of plastic with it.
- When you eat fish you are eating plastic too because the fish mistake plastic for plankton.





*Which One Would You Like?*

