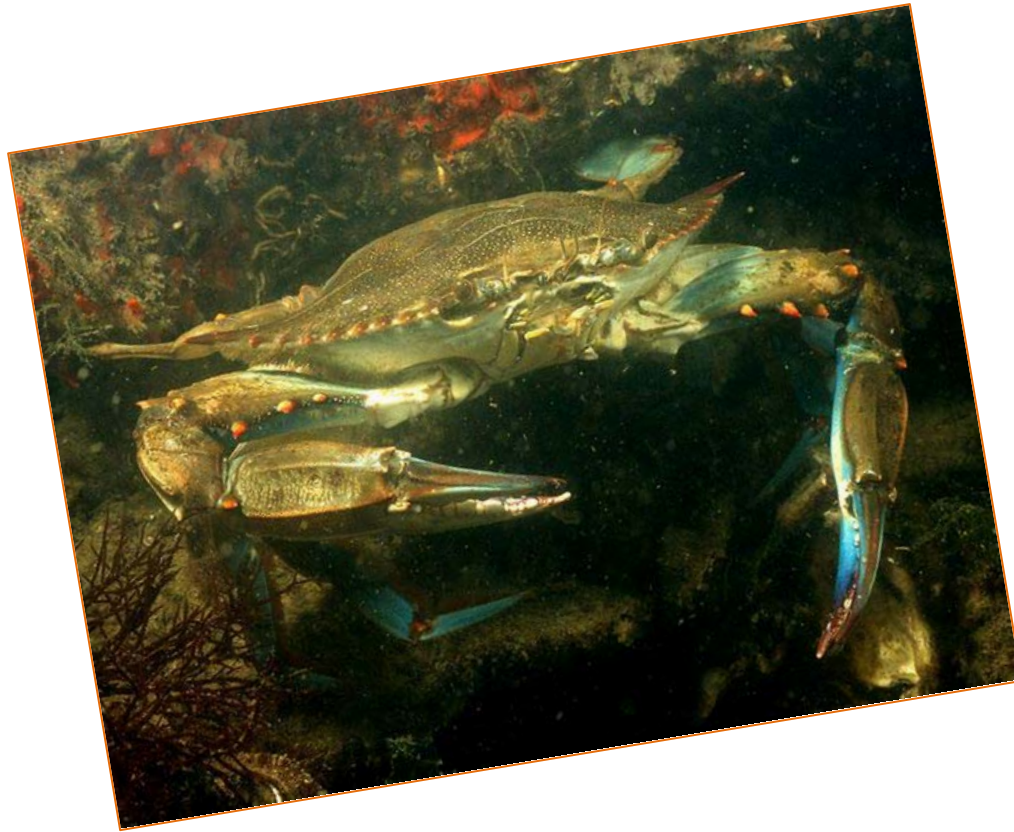


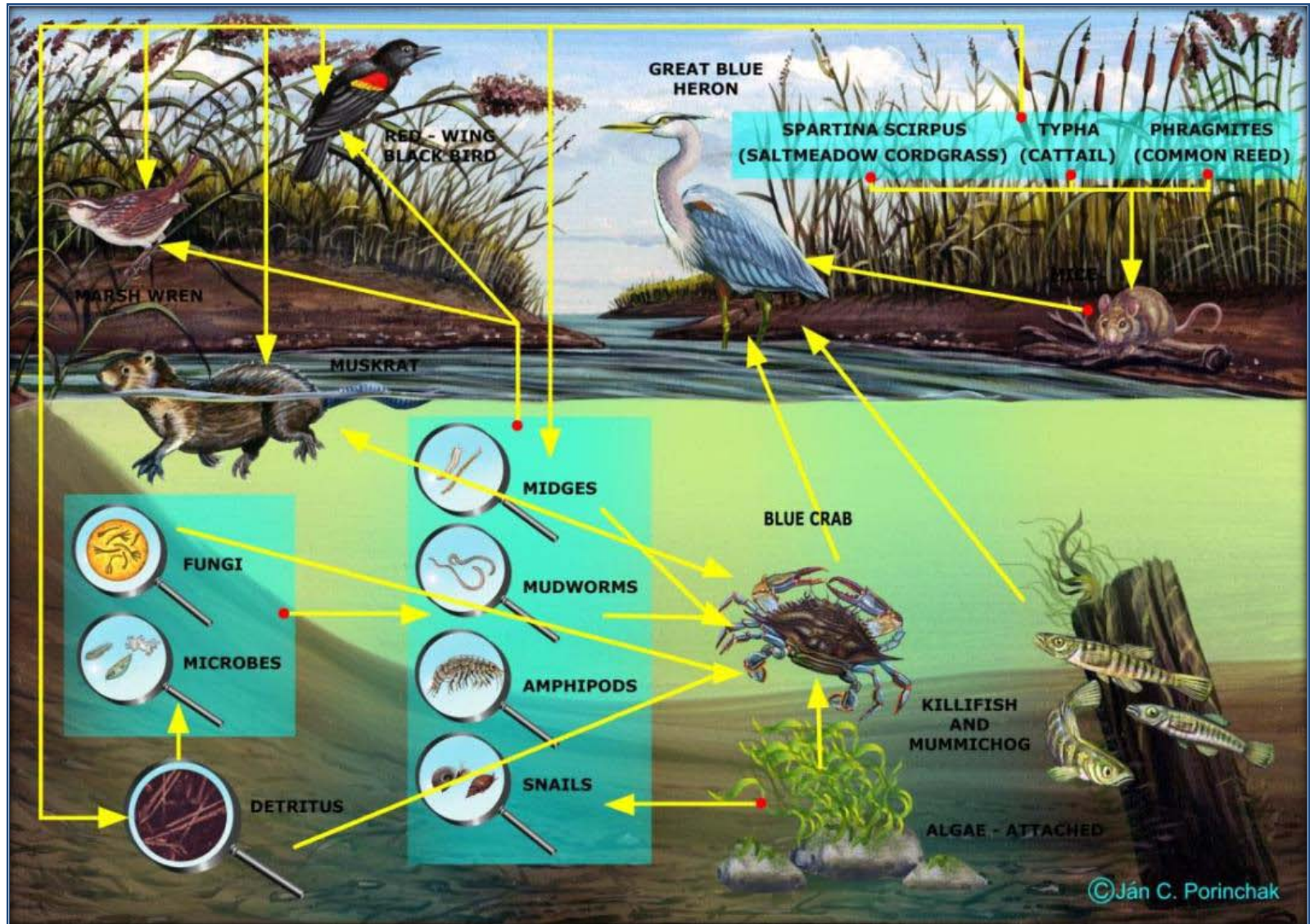
# Biomagnification

## How Toxins Move through the Food Web



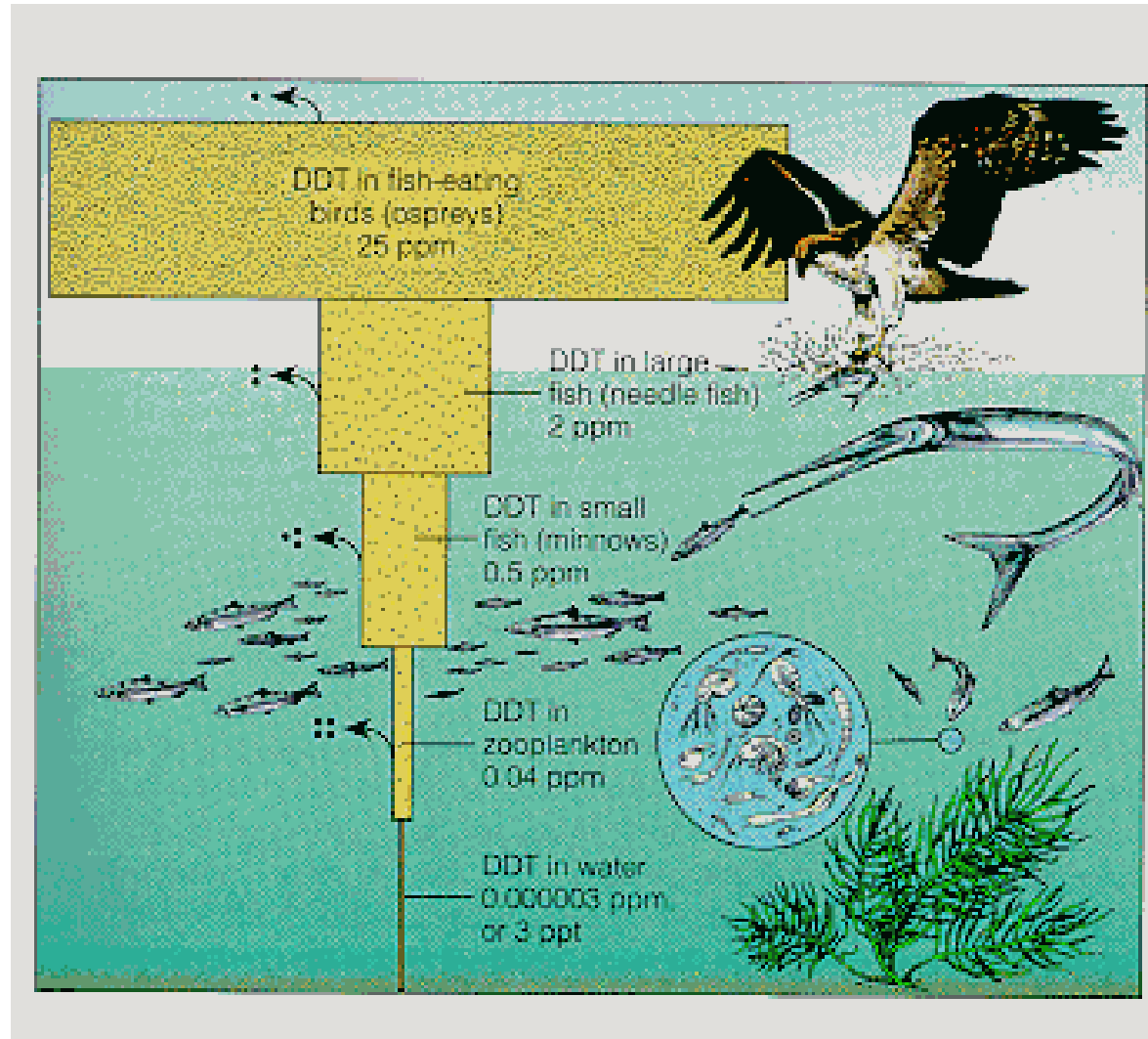
**Ecology and Evolution: Toxins in the Hudson**

# Typical Food Web for a Hudson River Freshwater Marsh



# Biomagnification

- concentration of toxin accumulates as it passes through the food chain.
- Usually occurs through a series of predator-prey relationships





# Biomagnification in an Aquatic Food Chain

[http://www.youtube.com/watch?v=MXSv0ifvDjc&feature=player\\_embedded](http://www.youtube.com/watch?v=MXSv0ifvDjc&feature=player_embedded).

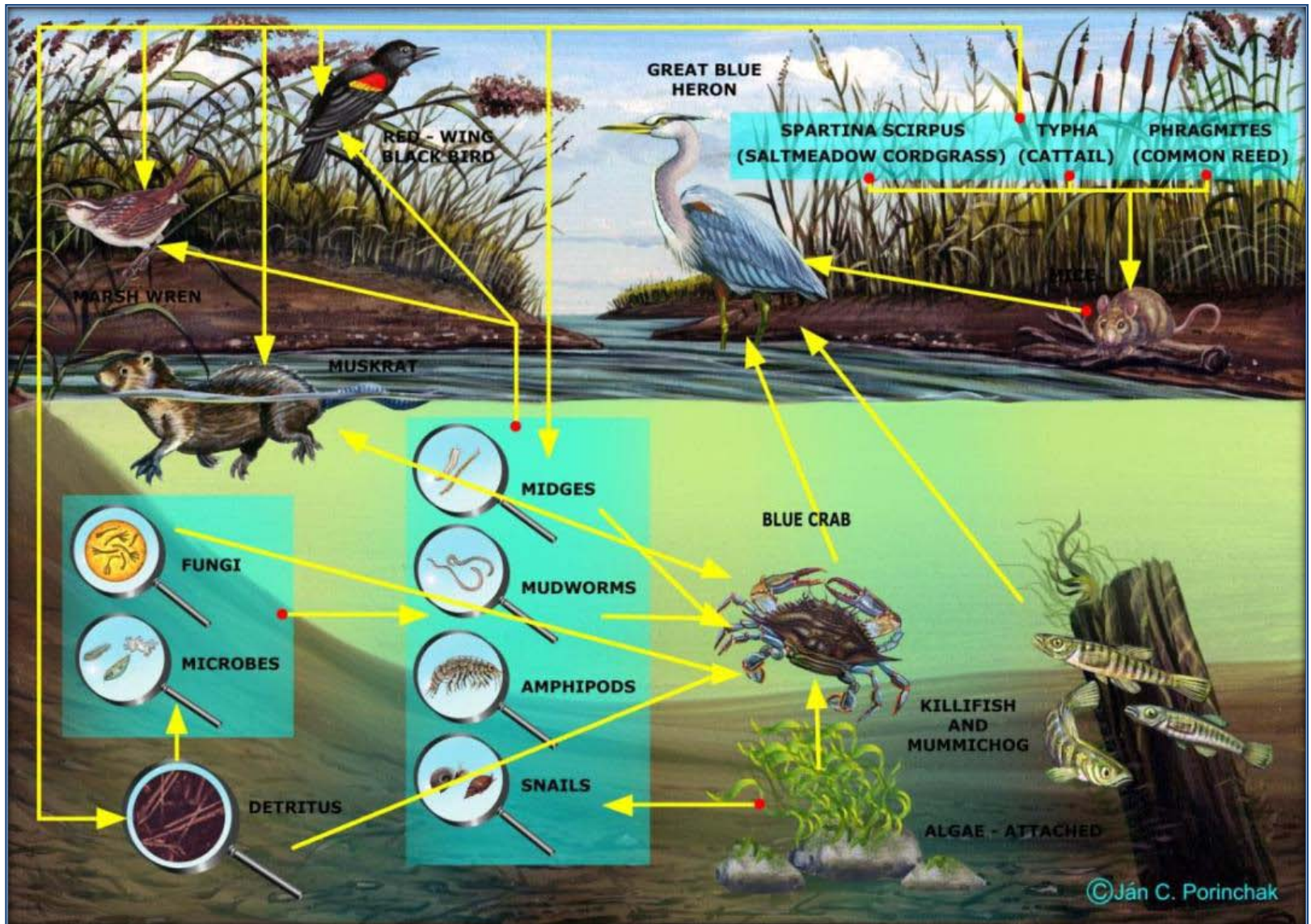
In this video, notice the source of the toxin and how it moves up the food chain.



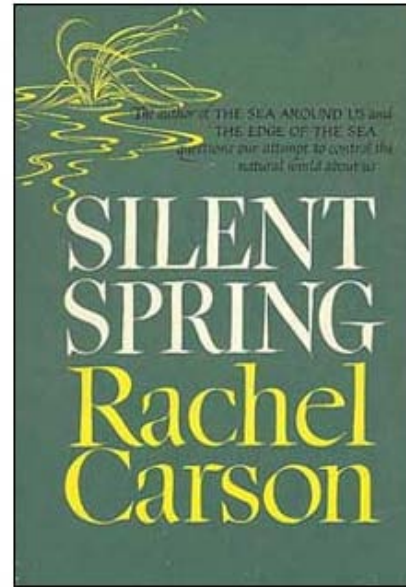
# Biomagnification in a Terrestrial Food Chain

<http://www.youtube.com/watch?feature=endscreen&NR=1&v=E5P-UoKLxIA>

# What pathways might cadmium take from producers to predators?

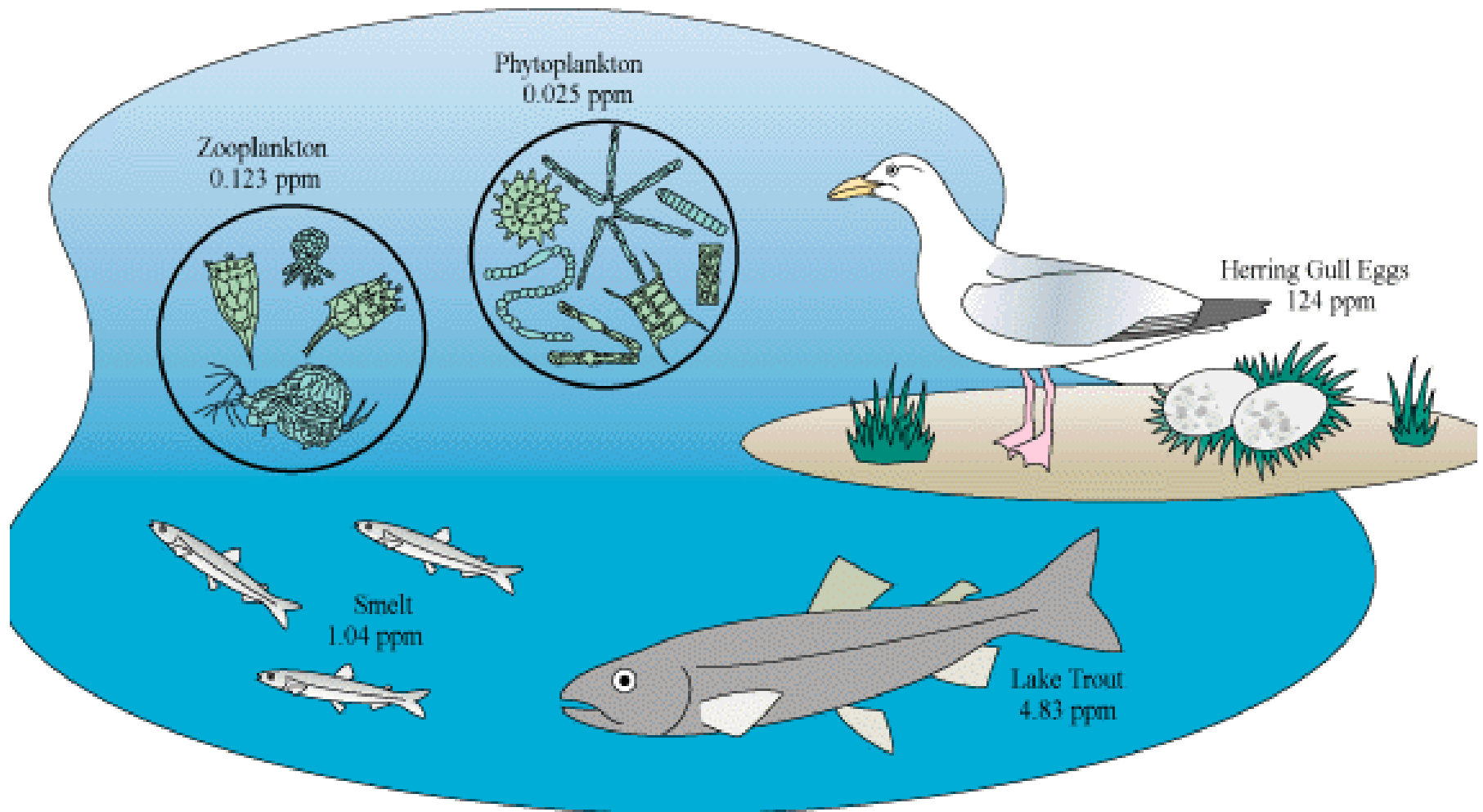


# DDT – A Famous Case of Biomagnification



The U.S. banned the use of DDT in this country in 1972, though it is still used in other countries.

# Biomagnification of PCBs



Great Lakes food chain showing biomagnification of PCBs.

Source: [www.epa.gov](http://www.epa.gov)