

Chapter 12 Section 2 Part 3

Evaluate how human activities affect the condition of the earth's land, water and atmosphere. 0707.7.9

Water Pollution

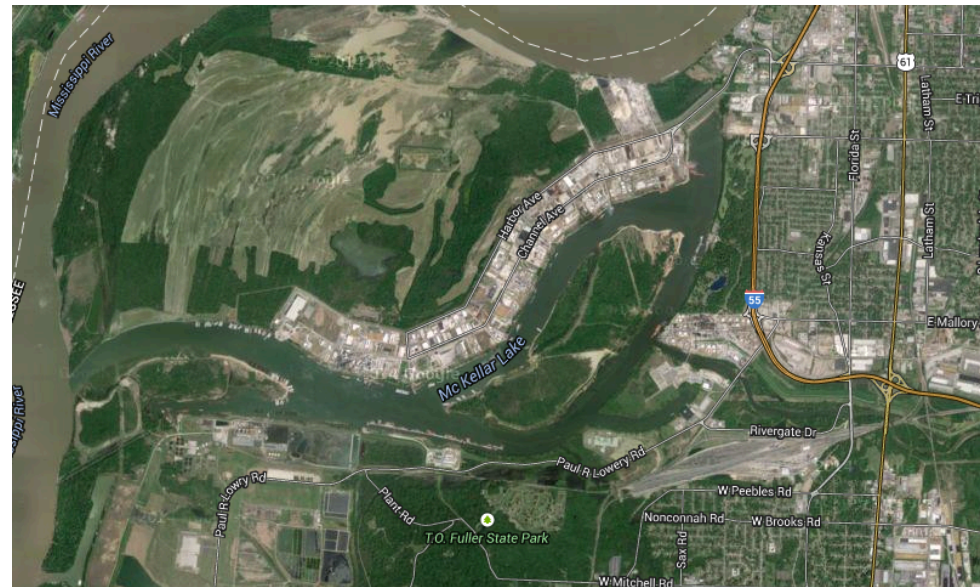


Water Pollution

- How Water Pollution Happens
 - Air pollutants can drift into water or be washed out of the sky by rain.
 - Rain can wash land pollutants into waterways.
 - Wastewater from factories and sewage-treatment plants often is released into waterways.
 - People dump litter or waste materials into rivers, lakes, and oceans.

McKeller Lake in Memphis

<https://www.youtube.com/watch?v=OK-AfJpyz2I&safe=active>



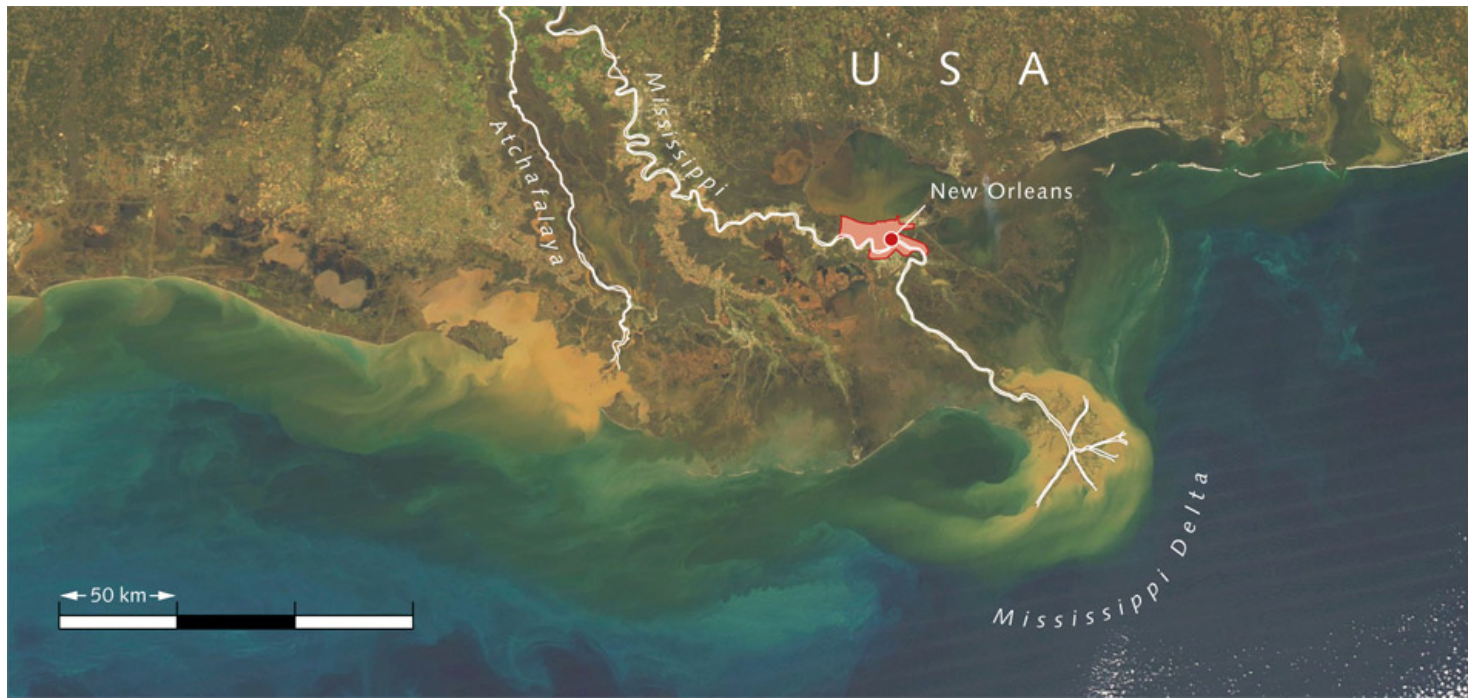
Surface Water

- Some water pollutants can poison fish and other wild life.
- It can even be harmful to people who swim in or drink the water.
- Read Surface Water on p. 373.
 - Write an explanation of how surface water pollution can eventually get to humans.
 - What is algal bloom?



Ocean Water

- Eventually, rivers and streams flow into the ocean. Pollution is brought along.
- Polluted water can enter the ocean in coastal areas where factories, sewage-treatment plants, or shipping activities are located.
- Oil spills can also pollute the ocean.



Groundwater



- Pollution can affect water that seeps underground.
- Groundwater is water that collects between particles of soil and rock.
- It comes from precipitation and runoff that soaks into the soil.
- If it comes into contact with pollutants as it moves through the soil and into an aquifer, the aquifer could become polluted.
- Polluted groundwater is difficult and sometimes impossible to clean.

Soil Loss

- Fertile topsoil is important to plant growth.
- New topsoil takes hundreds or thousands of years to form.
- Eroded soil that washes into a river or stream can block sunlight and flow photosynthesis.
- It can also harm fish, clams, and other organisms.
- Erosion is a natural process, but human activities can increase it.



Soil Pollution

- Soil can become polluted when air pollutants drift to the ground or when water leaves pollutants behind as it flows through the soil.
- Read *Solid Wastes* on p. 375.
 - Where does solid waste go?
 - What can you do to decrease need for new landfills?
- Read *Hazardous Wastes* on p. 376
 - What are hazardous materials?
 - Where do you find hazardous wastes?

Pollution Overview

- <https://www.youtube.com/watch?v=kdDSRRCKMil>



Exit Ticket

- Complete p. 376 1-5