Pollutants can enter surface and ground water in many ways:

A. **Non-point Source Pollution (NPS):** Non-point source pollution can be defined as pollution that comes from any miscellaneous or diverse sources rather than from a specific point.

Chemicals, waste products and soil that are carried by water into storm sewers become a part of NPS. Common examples are fertilizers, herbicides, pesticides, spilled motor oil and wastes from pets, wildlife, and livestock. Other significant sources of NPS include:

-Litter,
-Improperly operating septic systems,
-Erosion from construction sites or farms,
-Discharge of sewage and garbage from ships and boats,
-Cleansers, paint and anti-fouling compounds used on ships and boats to, prevent barnacles and algae from accumulating,
-Hazardous waste improperly stored or discarded,
-Acid deposition including acid rain and fog,
-Pollution from roadways and road salting activities,
-Disposal of wastes in catch basins,
-Leaking sewer lines.

1. Combined Sewer Overflows (CSO): In some of New Jersey's older cities both the rain water and sewage water run together in the same pipe which is called a combined sewer overflow. In times of high rain falls the rain water may wash the wastewater which needs to be treated right through the wastewater treatment plant diluting it so much that the treatment process cannot work properly. New systems do not permit combining of rain water and sewer water together. This is a major source of pollution in our harbors and can affect the shore areas. It is classified as a point source because we do know what pipe line or what storm drain brings the combined sewer overflow into the waterway.

2. Stormwater runoff: When people walk their dogs and allow them to defecate or urinate along the curbs this material is carried into the streams through the stormwater system. The water runs down the street and into the catch basin. Often times people think that the catch basins which tend to be on the corners of streets are actually giant garbage disposals and they throw paper cups and debris into the catch basin. These items then become mixed with the stormwater from the rain and these are carried through pipes directly into our waterways. Stormwater is untreated so therefore, any soap from car washing, or ink from news print or chemicals that are on the sides of the road including lead which comes from emissions from our own automobiles is collected in this water and comes directly into the waterway.