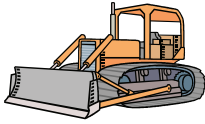


Streamside Plant Borders

Mother Nature's Natural Filters



Rain and run-off wash pollutants (e.g., motor oil; manure; pet waste; sediment; fertilizer; lawn products) on ground to streams.

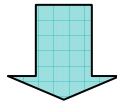


Ground Surface: Lawns, Parks, Golf Courses, Fields, Parking Lots, Roads, Streets, Walkways, Roofs, Etc.

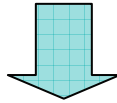
Pollutants of primary concern in CBPO:

SEDIMENT

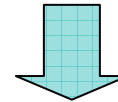
Excess **NITROGEN (N)** and **PHOSPHORUS (P)** (from Manure, Pet Waste, Fertilizers,)



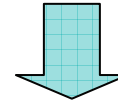
Streamside Plant Borders



Healthier Stream



No Plant Border



'Stressed' Stream

- 75% Less Sediment
- 40% Less Nitrogen (N) and Phosphorus (P)
- Cooler, cleaner water, more O₂, fewer chemical and bacterial pollutants and more aquatic life
- Stream banks have gentler slope and plant roots to hold soil and are thus more stable
- Less erosion with stable banks and buffer strip preventing sudden rush of water after storms.
- More reliable flow during drier months
- Lower cost to filter for drinking water

- No reduction in pollutants w/o buffer to filter
- N, P & fertilizers promote rapid algae growth
- Sediment clogs channels and requires added treatment to be removed at water plant.
- Stream banks are steeper and lacking in root support. Thus less stable and vulnerable to scouring from sudden rush of water after storms.
- Irregular flow during the year
- More cost to filter for drinking water

