



**Figure 6-4. Schematic of Leachate Migration From the Soil to a Stream**

**Explanation of Symbols**

- $Q_{sw}$  = Stream flow upstream of the point of groundwater discharge [ft<sup>3</sup>/day]
- $C_{su}$  = Concentration upstream of the groundwater discharge [mg/L]
- $Q_{gw}$  = Impacted groundwater discharge into the stream [ft<sup>3</sup>/day]
- $C_{sw}$  = Allowable downstream concentration, i.e., specific water quality criteria to be met beyond the mixing [mg/L]
- $C_{gw}$  = Allowable concentration in the groundwater discharge to the stream [mg/L]
- $C_{gws}$  = Allowable concentration in the groundwater at the edge of the soil source [mg/L]
- $C_{soil}$  = Allowable soil concentration at the source [mg/kg]
- $L_p$  = Width of groundwater plume discharging to the stream [ft]
- $D_p$  = Thickness of groundwater plume discharging to the stream [ft]
- $X_s$  = Distance from the downgradient edge of the groundwater source to the stream [ft]