



# Appendix F: Pollutants and Sources



**Table 1: Pollutants and Sources**

<i>Stormwater Pollutant</i>	<i>Sources</i>	<i>Related Impacts</i>
<b>Nutrients:</b> Nitrogen, Phosphorus, various others	Animal waste, fertilizers, failing septic systems	Algal growth, reduced clarity
<b>Sediments:</b> Suspended in the water and deposited	Construction sites, bare soil, road sanding, eroding banks	Increased turbidity, reduced clarity, deposition of sediment, lower dissolved oxygen
<b>Organic Materials</b>	Leaves, grass clippings, compost, brush	Oxygen deficit to receiving waters
<b>Pathogens:</b> Bacteria and Viruses	Animal waste, livestock, failing septic systems	Human health risks
<b>Hydrocarbons:</b> Oil and Grease, PAHs	Automobile wear, waste oil, emissions and fuel leaks	Water toxicity, sediment, and bioaccumulation through the food chain
<b>Metals:</b> Lead, Copper, Cadmium, Zinc, Mercury, Chromium, Aluminum	Wear of automobile brake linings and tires, emissions and fuel leaks, and metal roofs	Water toxicity, sediment, and bioaccumulation in the food chain
<b>Pesticides:</b> PCBs, Synthetic Chemicals	Herbicides, insecticides, fungicides, etc.	Water toxicity, sediment, and bioaccumulation in the food chain
<b>Chlorides</b>	Road salt, uncovered salt storage	Toxicity of water columns and sediment
<b>Trash and Debris</b>	Litter washed through storm drain networks	Degradation of the beauty of surface waters, threat to wildlife

Adopted from Minnesota Urban Small Sites BMP Manual