

CULTURING GREAT SALT LAKE MICROBES

Pollutants Challenge

TEACHER RESOURCE

Pollutant	Source	What to Use
Selenium	Mining operation byproduct	Selenium is an essential micronutrient that is mainly acquired in the proper dosage through diet. High levels of selenium can have adverse affects however. Supplements are available in most vitamin and health food stores. Use the desired number of supplements (crush if not in powder form) to introduce this pollutant to samples.
Triclosan	Wastewater treatment discharge	Triclosan is used in many products for its antibacterial properties. It can be found in many hand soaps, and mouthwashes.
Herbicides	Urban storm water	Common lawn and yard care "weed killer" products.
Pesticides	Urban storm water	Common lawn and yard care "pest killer" products, or common ant and roach sprays.
Nitrates and Phosphates	Urban storm water (fertilizers), wastewater treatment discharge	Common lawn and plant care products.
Oil	Urban run off, brine shrimp harvesting operations	Motor oil from any auto care center.
Ammonia	Wastewater treatment discharge	Dilute household ammonia used for cleaning
Endocrine disruptors, such as pthalates and parabens	Wastewater treatment discharge	Many liquid soaps and shampoos contain these products.