

External Nutrient Inputs

Primary Symptoms

Secondary Symptoms

Potential effects and use impairments

Nitrogen and Phosphorus

**Decreased Light Availability**

Extreme Chl-a Concentrations  
Problematic Epiphytic Growth  
Problematic Macroalgal Growth

**Loss aquatic vegetation**

SAV Spatial Coverage  
SAV Spatial Coverage Trends

**Algal Dominance Changes**

Diatoms to Flagellates  
Benthic Dominance to Pelagic Dominance

**Harmful Algae**

Nuisance Blooms  
Toxic Blooms

**Increased Organic Decomposition**

Extreme Chl-a Concentrations  
Problematic Macroalgal Growth

**Low Dissolved Oxygen**

Anoxia  
Hypoxia  
Biological Stress

**Loss of Habitat**

Commercial fishing  
Recreational fishing  
Aquaculture  
Tourism

**Increase of algal toxins**

Commercial fishing  
Recreational fishing  
Aquaculture  
Human health  
Swimming  
Tourism

**Fish kills**

Commercial fishing  
Recreational fishing  
Aquaculture  
Aesthetic values  
Tourism

**Loss of Habitat**

Commercial fishing  
Recreational fishing  
Aquaculture  
Tourism

**Offensive odours**

Aesthetic values  
Tourism