## stream restoration projects Angela Gardner





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Nutrient cycling important to a l ecosystem' s ov health and func

It is a dynamic pr in a constant sta flux



## Top Goals of Restoration

Stabilizing Stream Banks Developing and enhancing riparian zones Creating/improving instream habitat Aquatic organism passage

## ater, materials, and biota between groundwater ar stream water as it flows downstream.





differences in reach scale nitrogen uptake between restored and degraded reaches in low-order urban streams

pothesis 1: restored reaches greater capacity for nutr retention compared to un-restored streams in the sa watershed.

pothesis 2: Timescale required for reestablishment c/ retention can be short and impacted by restoratio design strategy









inderstanding restored urban stream ecosystems

nfluence of carbon and seasonality

nfluence of restoration age

Relationship between denitrification, flux rates and graphs of  $V_f$