

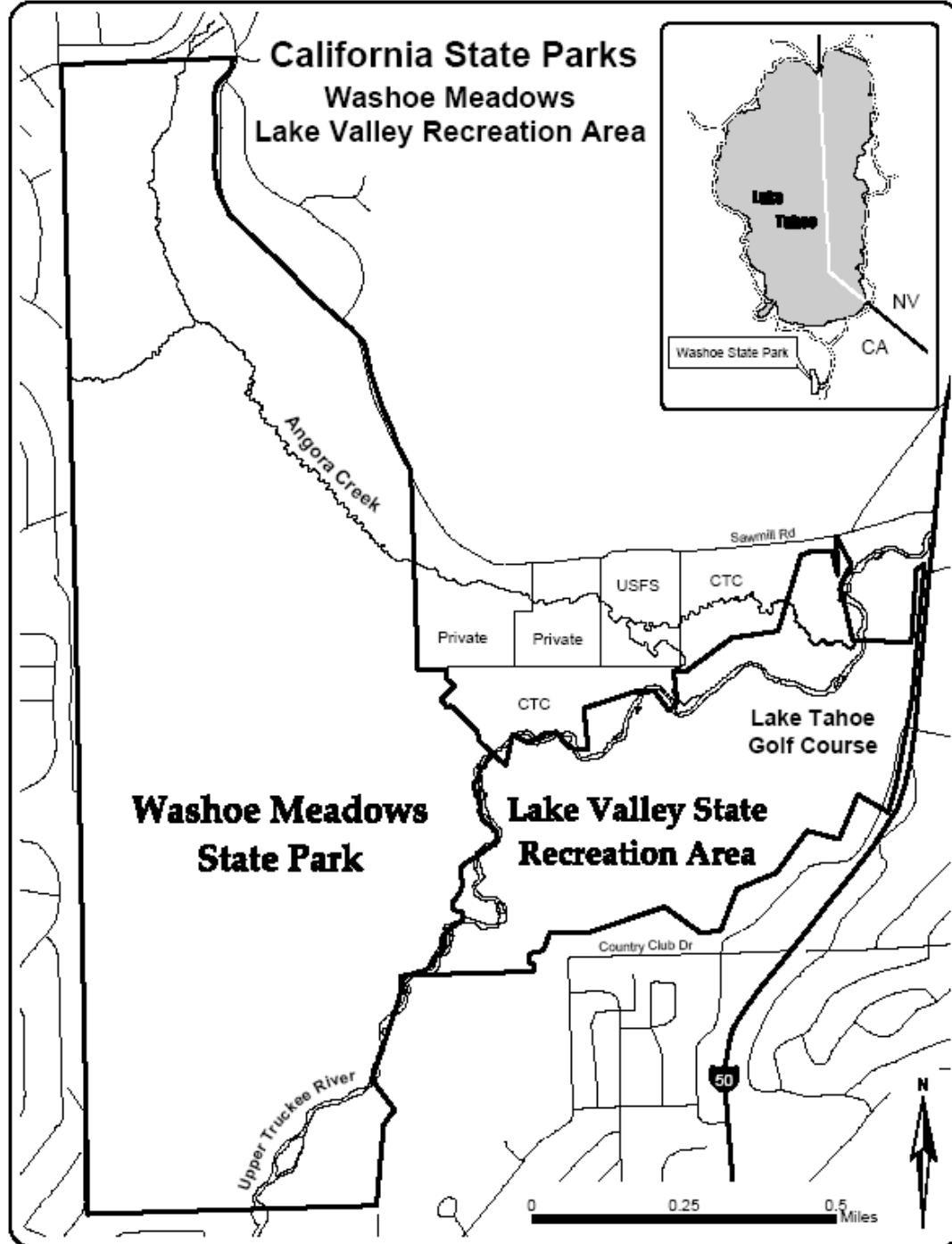
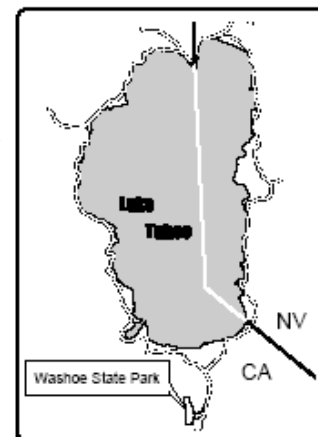
Angora Creek Restoration Monitoring Approach

Cyndie Walck

California State Parks



California State Parks
Washoe Meadows
Lake Valley Recreation Area



The Problem

- Reach of Angora Creek captured along sewer alignment
- Straightened steeper channel subsequently incised
- Bed and channel erosion/sediment production
- Water table dropped
- Vegetation drier
- Riparian and instream habitat impaired



Creek captured by sewer alignment



Creek flows directly over
sewer: potential for direct
contamination

Incision increases,
adjacent meadow
drier as water table
drops



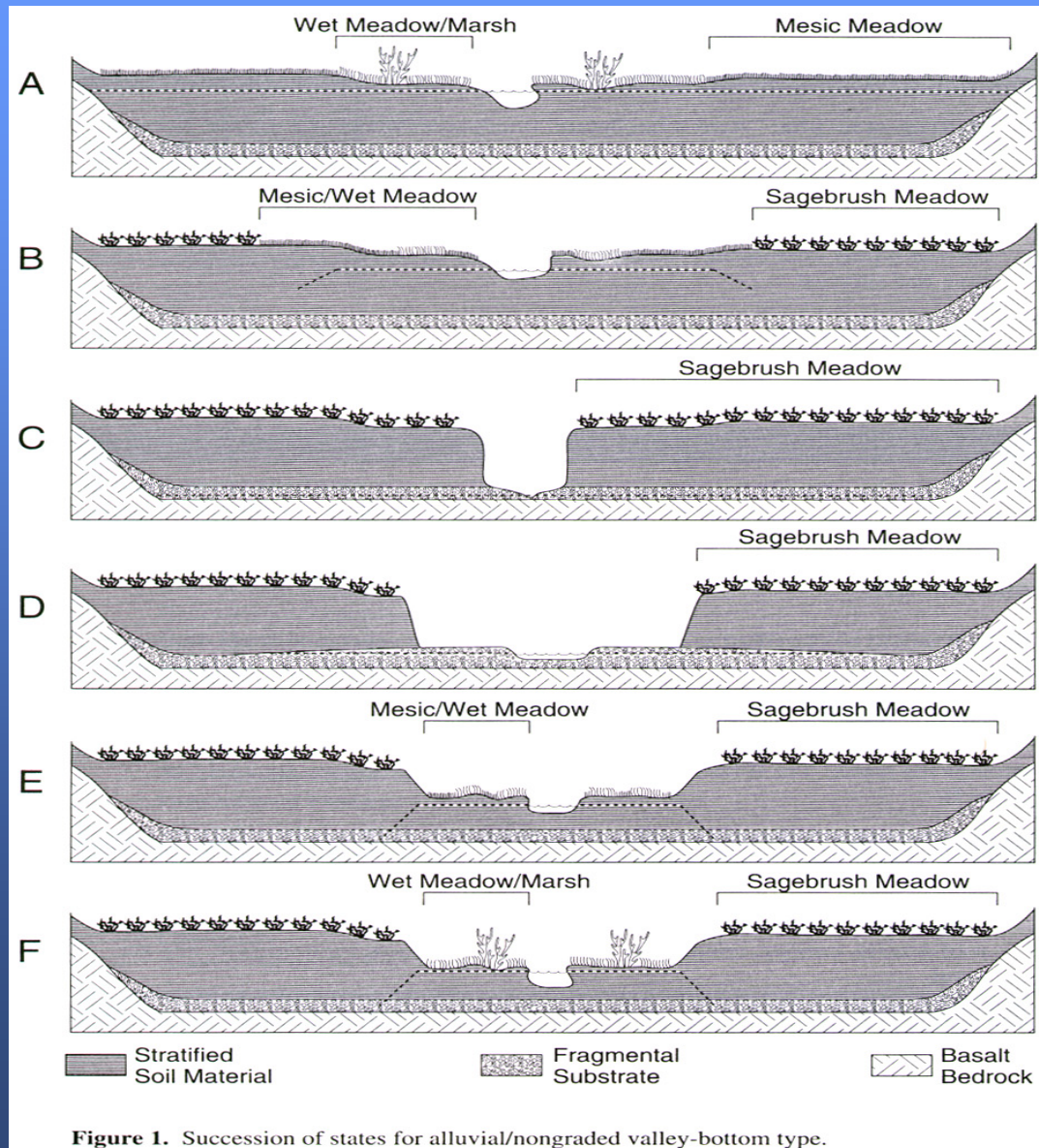
Undercut banks
sloughing, channel
widening, root zone
not accessing GW



Infeeder channels also head-cutting



Headcut de-waters meadow



Project Goals

Over-arching goal : Restore geomorphic function and associated riparian habitat

Secondary/related goals:

- De-couple stream from sewer
- Prevent headcuts from migrating upstream
- Increase channel stability/ reduce erosion
- Reconnect stream to meadow
- Restore meadow water table
- Improve meadow vegetation
- Improve riparian and instream habitat
- Improve water quality