





Integrated Vision



Regional Water Quality Habitat Restoration Recreation





Project Statistics

- Integrated Regional Facility
- 77 Square Mile Watershed In Cities of Upland,
 Rancho Cucamonga, Ontario, Chino, and Eastvale
- Private / Public Partnership Federal /State / County/ Cities / Resource Agencies
- 52 Acres Wetlands
- 160 Acre Feet Water Quality Treatment
- Over 23 Acres Riparian & Wetland Habitat
- 3 Miles Recreational Trails
- \$7.5 Million State Grants (Multiple Agencies)





SAN GABRIEL MOUNTAINS One Water ~ One Watershed RANCHO CUCAMONGA UPLAND ONTARIO AIRPORT CHINO AIRFORT You are here. PRADO BASIN









CUCAMONGA / MILL CREEK WATERSHED WATER QUALITY PROJECT

cover and shelter, food and nesting from

March through September.

Native habitats support endangered or threatened birds

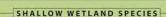


habitats for perching and nesting.



CUCAMONGA / MILL CREEK WATERSHED WATER QUALITY PROJECT

Meet the work horses: water-purifying plants



In this outdoor factory, plants and microorganisms are the workers. They may look simple, but they're doing a complex job -quietly working at filtering out pollutants.

Polluted stormwater flows in, and comes out clean. Expert cleaners? These plants are naturals!





Sedge Carex species

Sedges grow in shallow water. The plant's dense root mass is ideal for erosion control where wind whipped waves threaten to erode the basin edge. The rhizomes of the sedge act in the same way as bulrush to remove bacteria and pathogens out of





Rush Juncus species

Rushes have the capability of reducing pathogens and bacteria such as E. coli and salmonella by up to 90% in just 2 hours of contact in the water. Given more time in polluted water, rushes will also remove heavy metals including cobalt, copper, manganese, nickel and





Cattail Typha species

Cattail species are best known for their ability to uptake and store excess nitrogen, and phosphorus from fertilizers and manure, as well as metals. Cattails will eventually come into the wetlands on their own and naturalize by wind, water, and birds transporting the





DEEP WETLAND SPECIES

Bulrush Scirpus species

The Bulrush rhizomes (roots) form a dense matrix for beneficial bacteria to remove harmful bacteria, and break down oil, organics, and nutrients. Bulrush also accumulates heavy metals; this is called phytoremediation.



SHALLOW WETLAND (Water depth 0" to 6"



DEEP WETLAND (Water depth 6" to 18") PHYTOREMEDIATION ZONE (Water depth 0" to 18")

> DEEP WATER (no plants)





Can you find these plants? Which ones like the most water?









CUCAMONGA / MILL CREEK WATERSHED WATER QUALITY PROJECT

How does this natural water cleaning system work?



4 ... and out you go!

Now filtered, the diverted water flows down the **outlet structure** and out to Mill Creek, which eventually joins the Santa Ana River. Plants and active microorganisms are cleaning Cucamonga Creek's stormwater in these constructed treatment wetlands.

Why is this needed?

Before development, open land absorbed rainfall naturally. But now, houses, cities, and pavement cover the land, causing rainwater and irrigation to spill onto the streets.

All that urban runoff washes bacteria, motor oil, pesticides, fertilizers, manure and trash right into Cucamonga Creek.

The constructed treatment wetland basins around you filter the polluted stormwater, so that clean water enters Mill Creek, the Santa Ana River, and finally, the Pacific Ocean.





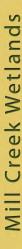




Key Partnerships ~Partnership Keys



Leadership ~ Vision ~ Perseverance







Partnership Challenges

Perspectives Approaches Goals Vision



Common Vision ~ Common Solution

















