

PROJECTS FOR IRVINGTON “CHANGE”

Tule Ponds at Tyson Lagoon is an open fresh water aquatic environment. You can research and perform community service on some of the projects listed below. Tule Ponds is open on Sat from 9-1 for Benchmark students to do work. You will be required to go through a short training program. Look on our website <http://msnucleus.org/classes/tule.htm> for training days.

If you are interested in projects in other parts of Fremont look for some suggestions on the following link:
<http://msnucleus.org/watersheds/studentproj.html>

If you are interested in any of these projects please email Dr. Blueford at blueford@msnucleus.org. Please note service hours are on Saturdays, with a few weekdays during Winter Break.

Animals

1. How can you control feral cat population? Service: build a feral cat home.
2. Raccoon and opossum population. How can you prevent raccoons and opossum from nesting in storm drains Service: build a home similar or get large pipe and hide with wood

<http://www.petfinder.com/how-to-help-pets/building-feral-cat-shelters.html>

Trash

1. How can you use the small creek to capture trash coming in from storm drains. Service: clear areas where cattails are to allow them to trap trash
2. How can you prevent trash from BART from coming under the fence? Service: picking up trash or designing a way to prevent trash from coming under the fences

Bees

1. How can you create artificial areas for bees to live? Service: Designing bee area
2. How can you increase bee population? Service: planting native plants to attract bees

Birds

1. Is Tule Ponds providing enough habitat for nests? Service: planting trees, shrubs, or plants with seeds
2. Making habitat for Clapper Rail at Tule Ponds (removal of cattails)

Butterflies

1. Which butterflies like what host plants? Service: pick one butterfly and determine its cycle and then plant the appropriate host plant.
2. Expanding butterfly meadow, presently have unknown caterpillars (would be nice to identify)

Soil

1. What type of soil is produced by different native trees (determine pH).
Service: Composting soil and put in flower bins
2. Comparing non native worms and native worms making compost
Service: making worm bins

Hydrology

1. Comparing constructed and natural wetlands
Service: clearing sections of creek for better flow

Plants

1. Why are native trees important? Service: take care of certain trees at Tule; planting trees in other locations (Stivers)
2. removal of non-native blackberries to increase frog population (yellow legged frog)
3. removal of non-native English Ivy and replace with native flowers
4. re-vegetating native poppies on hillside
5. Planting natives trees and care (along our BART) corridor... we need to fertilize and prune trees for growth
6. Growing and transplanting Tule in Pond C

Pollution

1. How can the Tule Ponds at Tyson Lagoon educate the community on non-point pollution?

Amphibian Habitat

1. Working along the creekbed to increase the yellow legged frog habitat. (this is hand digging creek bed)

Reptile Habitat

1. Turtle (western pond) creating floating docks
2. Lizards (how can you create more habitat)

Fish Habitat - Native Fish -

1. find out how to increase the native fish population (how can be rear fish and put them in Tyson Lagoon) - shallow warm lake (research on how to rear fish or where to get them (1 group)

Insects

1. Bug counts (identifying bugs and what plants they like)