



## **DESIGN-GROW-BUILD HABITATS**

ECOLOGICAL LANDSCAPING  
ECOLOGICAL CONSULTING  
HABITAT RESTORATION  
RAINWATER/GREYWATER  
CALIFORNIA NATIVE PLANT NURSERY

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CCL #778397

# CRAZY HORSE CANYON BOOSTER STATION

## OAK WOODLAND LANDSCAPE

SALINAS, CA



**OWNER:**  
PG&E

**PROJECT CONTRACTOR:**  
Ecological Concerns Incorporated

**ENVIRONMENTAL PLANNER & LANDSCAPE ARCHITECT:**  
Environmental Vision

**LANDSCAPE AND REVEGETATION CONTRACTORS:**  
Ecological Concerns Incorporated

**PROJECT GOALS:**  
Community Awareness; Improve Native Plant Diversity; Native Plant  
Population Establishment; Permit Compliance



**PROJECT DESCRIPTION:**  
ECI worked under Pacific Gas & Electric Company on landscaping a new substation in Crazy Horse Canyon in Monterey County. The substation sits in a windy valley 13 miles east of Moss Landing and will serve the growing community's energy needs. The landscaping at the entrance and surrounding the facilities is a palette of wild natives including Valley Oaks, Coast Live Oaks, and Blue Blossom Ceanothus. The landscape architect for the project used native varieties from the surrounding hills.

**SERVICES:**  
Assistance with Permitting Compliance; Erosion Control; Mitigation  
Maintenance; Plant Installation; Project Management; Riparian and Oak  
Woodland Plant Installation; Specific Soil Amendments; Revegetation  
Management; Success Criteria Report Writing

# ALBA TRIPLE M RANCH WETLAND RESTORATION

WATSONVILLE, CA



## PROJECT DESCRIPTION:

A collaborative effort on the part of the Agriculture and Land Based Training Association (ALBA), Ecological Concerns Incorporated and other organizations resulted in the successful restoration of 40 acres of wetlands on the Triple M Ranch in the Upper Elkhorn Slough watershed. The restoration included returning retired farmland to its historical conditions of native wetland and floodplain habitats. ALBA was awarded a grant from the US EPA because of the species involved and ALBA's participation as an educational institution. The important species were three federally listed threatened and endangered amphibians; the California tiger salamander, Santa Cruz long toed salamander, and the California redlegged frog. ECI designed and managed the construction of 17 ponds. After the ponds were built, ECI planted over 50,000 plugs that had been propagated and grown by Central Coast Wilds Nursery. The installation was complete in March 2013 and monitoring will continue by the Coastal Watershed Council.

## SERVICES:

Wetland Habitat Design Plans, Propagation and Planting of Wetland Plants, Mitigation Maintenance

## OWNER:

Agriculture and Land Based Training Association

## PROJECT CONTRACTOR:

Ecological Concerns Incorporated

## PLANNER:

Denise Duffy and Associates along with Ecological Concerns Inc

## PROJECT CONTRACTOR:

Ecological Concerns Incorporated

## PROJECT GOALS:

Community Awareness; Improve Native Plant Diversity; Native Plant Population Establishment; Permit Compliance

# SAN FELIPE ESTATES HABITAT MITIGATION

SAN JOSE, CA



**OWNER:**

DAL Properties

**PROJECT CONTRACTOR:**

L&D Construction

**PLANNER:**

Live Oak & Associates

**LANDSCAPE CONTRACTOR:**

Ecological Concerns Incorporated

**PROJECT GOALS:**

Create a self-sustaining CDFG riparian woodland habitat on site;  
Placement of the mitigation site are in areas least likely to be  
subject to disturbance in the future; Maintain the character of the  
existing natural topography



**PROJECT DESCRIPTION:**

Nestled in the foothills above San Jose, San Felipe Heritage Estates was developed next to the seasonal riparian corridor Desolation Creek. A plan was developed to provide open space for the new community and offset the habitat loss from the development. A section of the creek was cleared of invasives and planted with several large Sycamore trees. As a buffer to the native open space, native plants were installed along a walking path inside the new community of homes. During the planning process, ECI recognized a potential savings to the builder and redesigned the irrigation system. The new design ended up saving the developer \$83,000 from the initial cost analysis. The installation of the habitat was completed in March 2013 and maintenance will continue through 2016.

**SERVICES:**

Preparation of Revegetation Plans, Soil Analysis, Irrigation installation, Riparian and Oak Woodland Plant Installation, Plant Protection Installation, and Mitigation Maintenance



# SCHAPIRO KNOLLS RIPARIAN & WETLAND MITIGATION

WATSONVILLE, CA



**OWNER:**

Mid Peninsula Housing

**PROJECT CONTRACTOR:**

L&D Construction

**PLANNERS:**

HT Harvey and Associates  
Dillon Design Associates

**LANDSCAPE CONTRACTOR:**

Ecological Concerns Incorporated



**PROJECT GOALS:**

Permit Compliance, Removal of Invasive Species by Non Chemical Methods, Riparian and Wetland Restoration natural topography



**PROJECT DESCRIPTION:**

Mid Peninsula Housing Coalition constructed an 88 unit residential apartment complex. The project included an upgrade to a culvert that drains a riparian corridor on the undeveloped portion of the property. Due to these associated impacts to protected waterways, habitat mitigation was required. HT Harvey and Associates prepared the Mitigation and Monitoring Plan. Dillon Design Associates created the landscape plan, which included invasive exotic plant removal, new wetland creation, native riparian and wetland planting and irrigation. ECI implemented the plan by eradicating invasive vegetation, light grading for wetland creation, installation of biofiltration sod at stormwater outfalls and the replanting of native riparian woodland and wetland plants. Central Coast Wilds Nursery propagated the plants from collections within the watershed. Planting was complete in April 2013. Maintenance will continue through 2016.

**SERVICES:**

Site Specific Seed Collection, Plant Propagation, Invasive Plant Eradication, Irrigation installation, Wetland Creation, Biofiltration Sod, Riparian and Wetland Plant Installation, Plant Protection Installation, and Maintenance



# AUTUMN TERRACE RIPARIAN MITIGATION

SAN JOSE, CA



BEFORE



AFTER

## OWNER:

KB South Bay Homes

## PROJECT CONTRACTOR:

KB South Bay Homes

## PLANNER:

Ecological Concerns Incorporated

## LANDSCAPE CONTRACTOR:

Ecological Concerns Incorporated

## PROJECT GOALS:

Permit Compliance, Minimize Impacts to Riparian Corridor,  
Removal of Invasive Species by Non Chemical Methods, Sustainable  
Plant Establishment, Maintenance Training

## PROJECT DESCRIPTION:

Autumn Terrace is a multi-unit housing development constructed in 2006 by KB Home at 12th and Orvis Avenue in San Jose, California. Due to the project's proximity to Coyote Creek and encroachment on the riparian buffer, approximately 2 acres of riparian restoration and approximately 0.1 acres of wetland bioswale were required to be installed, maintained, and monitored by the Santa Clara Valley Water District and the City of San Jose's Riparian Ordinance as mitigation for the encroachment. ECI has received excellent feedback from both the regulatory agencies and our client on this project, and the mitigation is on track to meet performance criteria and be signed off as complete within the next year.

## SERVICES:

Custom Seed Collection, Contract Nursery Grow, Erosion Control, Invasive Species Removal, Riparian and Oak Woodland Plant Installation, Plant Protection Installation, Project Oversight, Maintenance and Monitoring



### ECOLOGICAL LANDSCAPES - COMMERCIAL & RESIDENTIAL

- Sustainable Landscape Design
- Low Impact Development Planning
- Stormwater Management
- Rainwater/Graywater
- Landscape Installation
- Landscape Maintenance
- Habitat Gardens



### HABITAT RESTORATION

- Habitat Restoration Plans
- Erosion & Sediment Control
- Vegetation Management

### ECOLOGICAL CONSULTING

- Site & Botanical Assessments
- Environmental Impact Reports
- Feasibility Studies
- Species Specific Mitigation Plans
- Monitoring & Reporting
- GIS/GPS Data

### CALIFORNIA NATIVE PLANT NURSERY

- Site Specific Seed Collection
- Botanical Consultations
- Contract Growing
- Habitat Specific Native Plants



“While I was having my house remodeled, ECI was the best contractor we had on site out of 15 other tradesmen. I loved the quality that came from having a contractor that could design and install such a complicated rainwater and greywater system.” - **BEN BOYER**

“We are extremely pleased with Dakota’s design and ECI’s work. In addition to its beauty, our garden now has ecological value and contributes to the biodiversity of our local environment. Golden-crowned sparrows, black-capped chickadees, Monarch butterflies, bumblebees and other pollinators are daily visitors. My favorite part of the new landscape is a rain garden that harvests stormwater runoff from our roof and directs it into a vegetated swale where the soil filters and cleans the water instead of having it disappear down a storm drain. Thanks to ECI, our garden was certified a Monterey Bay Friendly Landscape, which means it meets the highest standards of sustainability and eco-friendliness.” - **TAI MOSES**

“We decided to work with ECI , and we are completely satisfied with their efforts and results on our behalf. They worked well with all the entities involved in this complicated project from the county, to the water district, our concrete guys and all other subs. They installed a 2500 gallon tank underground for us that filled up on the first rain we had in November, and their system will allow us to water our yard for free until the next rains come and fill the tank again, my only regret is we didn’t install the 5000 gallon tank as Bobby had recommended. It turned out that the county has started overseeing these systems, and the their requirements can impact the esthetics, and overall design, but working with Bobby Markowitz proved to be a great choice for us as he was able to work with the county, and our subs in a comprehensive manner to finish our project on time and on budget. I would recommend this company highly for any and all rainwater capture projects, as well as native designs and systems.” - **WILLIAM KENNEDY**

## ECI PERSONNEL



### **Joshua T. Fodor: President, Restoration Ecologist, CPESC**

Josh has 20 years experience in organic horticulture, habitat restoration and ecological landscape design and implementation. After completing degrees in Biology and Environmental Studies at U.C. Santa Cruz and working 5 years in organic agriculture, he founded Central Coast Wilds in 1992. Early on he combined his interest in organic production methods with his botanical skills to create the first registered organic native plant nursery in California. Josh leads design and implementation of ecological landscape plans, vegetation management plans and habitat restoration plans throughout California, particularly in the San Francisco and Monterey Bay areas. Over the last decade he has continued his professional training in erosion control, stream restoration, watershed assessment, wetland delineation, and ecological landscape management techniques. In 2006, Josh completed an extension certificate in California Water Management and Ecosystem Restoration at U.C. Berkeley. In 2008 Josh became a Certified Professional in Erosion and Sediment Control.



### **Jon Laslett: Senior Project Manager and Ecologist**

Jon received his BS from the University of California at Santa Cruz in 2003 with a double major in Ecology and Evolutionary Biology, and Marine Biology. He has worked on ecological monitoring, conservation, and restoration projects from Baja California to the Aleutian Islands. He also has a background in conventional construction and landscaping. In January 2007, he found a way to effectively combine these two skill sets as a project manager and ecologist at Ecological Concerns Inc. Since then, he has been responsible for successfully designing, estimating, implementing, maintaining, and monitoring restoration projects and ecological landscapes throughout the Central Coast.



### **Dakotah Bertsch: Landscape Architect**

Dakotah earned his Masters degree in Landscape Architecture from Cal Poly Pomona, and he has a B.S. in Environmental Studies from U.C. Santa Barbara. He's had a long love affair with California ecosystems, with years of ecological studies, frequent hikes and explorations, and years of working in the field of design, construction, maintenance and restoration of California landscapes. He also studied and apprenticed in Permaculture, and is experienced with edible and sustainable landscapes. Dakotah moved to Santa Cruz from Mendocino County to join the team at Central Coast Wilds, where he combines his interests in native habitats and ecological landscape design.



### **Ellen Uhler: Senior Botanist**

Ellen began working at Ecological Concerns Inc. as a volunteer in 1996. Her aptitude became readily apparent as she quickly learned the arts of native plant identification and propagation. Ellen leads the company's botanical consulting work, performing floristic surveys, rare plant monitoring, and restoration project performance evaluations. She has also managed hundreds of site specific seed collection and native plant propagation projects. Her ongoing botanical studies often focus on Cyperaceae (Sedges), Salicaceae (Willows), or the alpine flora of the Sierra Nevada. As an active member of the California Native Plant Society, she has volunteered to help set up the Pacific Grove Wildflower Show annually since 1997.



### **Bill Halleck: Senior Designer and Certified Professional in Erosion and Sediment Control #6183**

- Bill has over 30 years of experience in landscape architecture, land conservation and greenway planning, environmental impact reporting, habitat restoration, construction management, environmental resource permitting, and erosion control. Fifteen of those years were spent as a landscape architect for the City of San Jose. In addition he offers our clients expertise in project management on multidisciplinary jobs that have included creek trails, public park and open space planning, riparian and wetland revegetation, residential, commercial and municipal developments, as well as stormwater management.