HUI KU MAOLI OLA

BEFORE

AFTER

NATIVE HAWAIIAN PLANT SPECIALISTS

AND ENVIRONMENTAL SLAVES

Ha’iku, O’AHU
COMPANY BACKGROUND

SCHOOL GARDENS

LANDSCAPE CONSULTATION

NURSERY

HABITAT RESTORATIONS
SOME TYPICAL WATERSHED PROBLEMS

- MASS AGRICULTURE
- LOSS OF STREAM FUNCTION
- DESTRUCTION OF WETLANDS
- COMMUNITY APATHY
- WATER CONTAMINATION
PHYSICAL PROBLEMS OF THE STREAMS

CHOKING VEGETATION

ALIEN SPECIES

STREAM CHANNELIZATION

EROSION
STREAM RESTORATION STEPS

- **REMOVAL OF WEEDS**
- **INSTALLATION OF IRRIGATION**
- **PLANT WITH NATIVES**
- **WEED SUPPRESSION**
NO WAIT, IRRIGATE!!!

IRRIGATION TYPES:

- PVC PIPE W/ IMPACT HEADS
- POLYTUBING W/ SPINNERS
- T-TAPE W/ DRIP HOLES
Geotextiles

SILT FENCES

COIR LOGS

JOOT MATTING
CHOICE PLANT PICKS

- TOUGH AND HARDY
- NATURAL CONDITIONS
- ABLE TO COMPETE WITH WEEDS
- USEFUL FOR WILDLIFE AND OR PEOPLE
More Groundcovers

ʻAkulikuli

Nanea
SHRUBS

Naupaka Kahakai

Achyranthes splendens var. rotundata
STREAM SHIDE SHRUBS

'ILIMA

MAIAPILO

MA'O

KOKI'O KE'OKE'O
SHOME MORE SHRUBS

KULU’I

NAIO

‘AWEOWEO

‘A’ALI’I
STREAM TREES

Hala

Lonomea

Milo

Kou
Native Rushes and Sedges

‘Ahu’awa: C. javanicus

Makaloa: C. laevigatus

‘Aka’akai: S. lacustris

Pu’uka’a: C. trachysanthos
Native Grasses

Kawelu: Eragrostis

‘Aki’aki: Sporobolus

Pili: Heteropogon

Kamanomano: Cenchrus
PLANTING STRATEGY

- **VOLUNTEERS**
  - **PROS**
    - Many Hands
    - Little or no cost
  - **CONS**
    - Crowd control
    - Poor quality installation
    - Time conflicts

- **RESTORATION TEAM**
  - **PROS**
    - Quality work
    - Ready to work when you are
  - **CONS**
    - You have to pay them
    - Less hands
MAINTENANCE

- WEED TIL YA BLEED
- WEED AGAIN
- WEED SOME MORE
- FOLLOW UP WITH WEEDING
- TRY THIS: WEEDING
- IF THAT DOESN’T WORK, PERHAPS WEEDING WILL
- FINALLY: WEED
IDEAL RESTORATION

RE-CAP

✓ WEED EAT & CLEAR VEGETATION
✓ INSTALL IRRIGATION
✓ IRRIGATE & WAIT 2 WEEKS
✓ RODEO
✓ IRRIGATE & WAIT AGAIN 2 WEEKS
✓ RODEO AGAIN
✓ WAIT TWO DAYS
✓ INSTALL NECESSARY GEOTEXTILES
✓ PLANT
✓ IRRIGATE DAILY FOR AT LEAST 2 WEEKS THEN REDUCE WATERING TO TWICE A WEEK FOR 2 WEEKS THEN PAU
✓ MAINTAIN ∞
Before and After
Kahawai Stream Waimanalo

MAY 2001

FEB 2002

MARCH 2003
Before and After Waimanalo Stream

JUNE 2001

APRIL 2002

DECEMBER 2003
Before and After Kaha Park

MAY 2007

JUNE 2007
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