

NORTH

scale: 1" = 200'
0 200' 400' 600'

Represents the 5th year the area will be restored

Represents the 3rd year the area will be restored

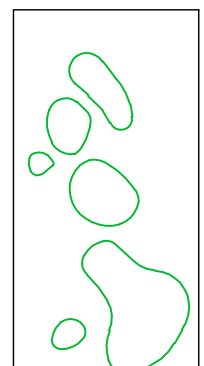

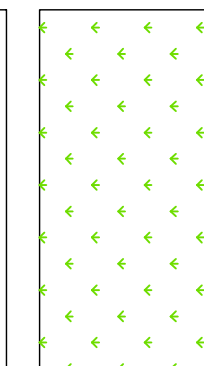
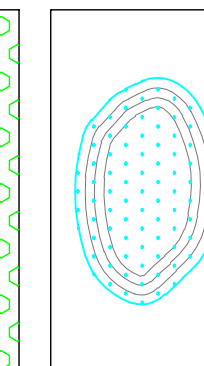
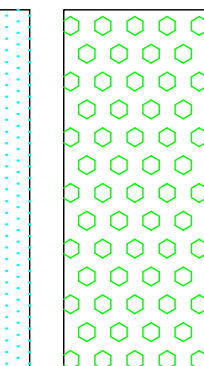
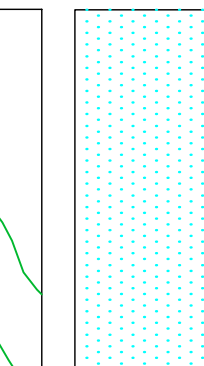

CONCEPTUAL RESTORATION PROCESS

Restoration of the Mesa will require ten-years to complete. The process will be divided into two phases. In Phase I, the first five years, the Terra-Farms, service trails, and irrigation system will be established; perimeter habitats and the eucalyptus ESHA restored; tarweed population and Warner Avenue Pond ESHA protected and monitored. Additional objectives are to reduce the weed seed bank, establish a self-sufficient nursery, restore soils, develop a seed bank for the grasslands and accrue knowledge of the environment and facility operations. Adaptive management techniques will be utilized to meet objectives.

- In Phase II, years six – ten, the primary restoration efforts will be the implementation of native grassland habitat. In this phase, the grasslands and mixed grassland habitat will be established using low-impact agricultural methods to increase soil health (tilth). These methods may include:
- fill site weeds (green-waste) into the soil to reduce weed seed production, increase soil organic matter, and improve drainage;
 - plant native flowering annuals to attract pollinators;
 - include the soils with mycorrhizae a beneficial fungi;
 - apply compost tea to introduce beneficial microbes;
 - use "hand imprints" to sow seeds and provide micro-topography for drainage and moisture;
 - compost site weeds (green waste) at Terra-Farms and fill into soils for soil improvements;
 - row plant native grasses with legumes between to facilitate weed control irrigation, and increase fertility;
 - plant native flowering annuals to attract pollinators; and
 - the limited use of glyphosate (herbicide) for weed control.

Approximately the ninth and tenth year the Terra-Farms will be decommissioned and turned into micro-wetlands. Site irrigation system will be removed, unseeded service trails revegetated with native plants and residual soil compaction and erosion mitigated. Post restoration, Bolsa Chica Land Trust, in agreement with the Department of Fish and Game, will provide resource management and maintenance of the Mesa in perpetuity.

HABITATS

-  Coastal Sage Scrub (approx. 25 ac)
-  Mixed Grassland, Coastal Sage Scrub Herbaceous Vegetation (approx. 12 ac)
-  Native Grassland (approx. 65 ac)
-  Mixed Grassland & Seasonal Ponding (approx. 10 ac)
-  Brightwater Habitat Creation Grassland, Coastal Sage Scrub
-  Wetland Restored
-  Existing Mature Coastal Sage Scrub

RESTORATION PROCESS PLAN

REVISIONS	BY

DESIGN: G.S.
 CHECKED: G.S.
 DATE: 4/27/10
 SCALE: NOTED
 JOB #



COMMUNITY PROMOTED RESTORATION, CPR FOR THE MESA
 CALIFORNIA DEPARTMENT OF FISH and GAME
 SOUTH COAST REGION PROJECT PLAN EVALUATION
 BOLSA CHICA LAND TRUST
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