

IMPACT ANALYSIS PLANS FOR:

COMMUNITY PROMOTED RESTORATION, CPR FOR THE MESA

BOLSA CHICA LAND TRUST, HUNTINGTON BEACH, CALIFORNIA

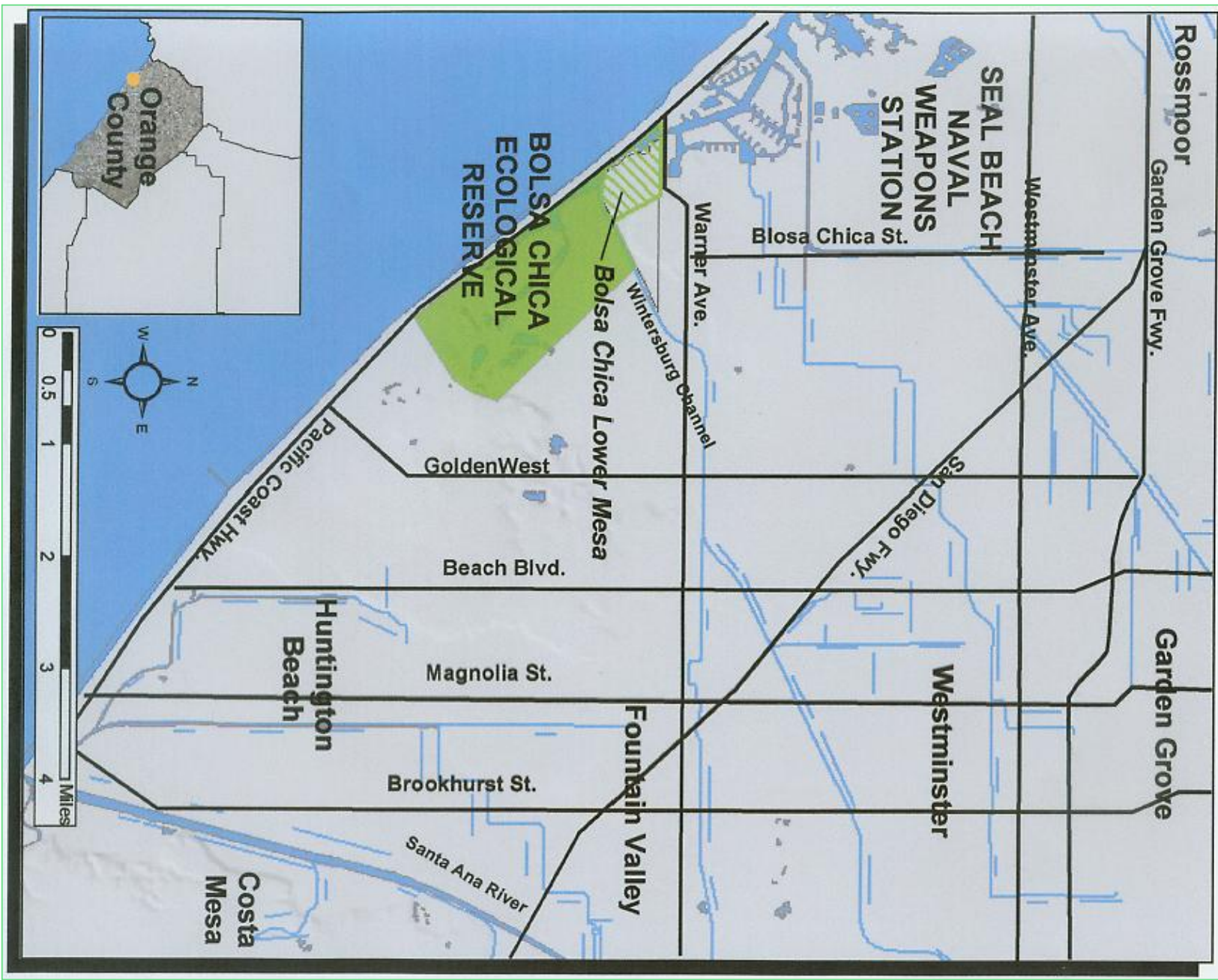
SUPPLEMENT DOCUMENT FOR BOLSA CHICA LAND TRUST–BOLSA CHICA MESA LOWER BENCH RESTORATION
CALIFORNIA DEPARTMENT OF FISH AND GAME, SOUTH COAST REGION PROJECT PLAN EVALUATION

NOT FOR CONSTRUCTION

LEAD AGENCY

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LOCATION MAP



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VICINITY MAP



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CONCEPTUAL DESIGN STATEMENT

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CPR for the MESA is a ten-year, community implemented, habitat restoration project. The historical record indicates that extensive cattle ranching, logging, and other human impacts have destroyed MESA soils. To create healthy viable grassland and other indigenous habitats it's necessary to "restore" site soils.

- Primary design objectives are to:
- create four viable habitats totaling approximately 110 acres;
- protect two Environmentally Sensitive Habitat Areas (Bays), adjacent wetlands, potential Native American artifacts in sub-soils, and indigenous wildlife;
- utilize community volunteers and colleges to do most of the restoration;
- and complete the project in ten-years with minimum impact on the environment

To achieve these objectives, agricultural technologies will be used. Four one-acre Terra-Farms will be strategically located on the MESA to harvest existing natural resources, wind, rain, sun and vegetation. To maximize the efficient use of resources, Terra Farms will be placed in future ecotones, where three habitats come together.

Each Terra-Farm will be designed as habitat to attract wildlife, especially birds and pollinators. To enhance water quality, farms will treat storm water in bio-swales. They will also harvest water for plant uses, composting green waste. Designative native grasses for a seed bank, and serve as adjacent laboratories for community colleges.

A portable, self-sufficient, native plant nursery will rotate among the four Terra-Farms on an as needed basis. This nursery will produce most of the native plants needed for restoration; serve as the main command center for restoration, management and wildlife monitoring activity; be fitted with solar and wind power technologies; and have internet access video-cams for wildlife observations, security, and education.

Once Terra-Farms have reached the end of their lifecycle, they will be re-born into micro-herbaceous wetlands. The farm and its surrounding landscaped berms will be slightly modified to capture storm water drainage. Existing bio-swales will be supplemented with herbaceous vegetation. In the future decommissioned Terra-Farms can serve as wildlife observation and interpretive nodes.

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BOLSA CHICA LAND TRUST
HUNTINGTON BEACH, CALIFORNIA

TITLE SHEET

REVISIONS	BY
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DRAWN	G.S.
CHECKED	G.S.
DATE	4/27/10
SCALE	NOTED
JOB #	

