Environmental Stewardship

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Environmental Enhancement

Antioch Dunes Restoration
Dunes History

- Glacial sand deposits along San Joaquin River near Antioch
- Dunes grew up to 120 feet tall over 2 miles
- Sand stripped to make bricks to rebuild San Francisco after 1906 earthquake and fires
- Sand mining and other development nearly wiped out dunes and associated habitat
Antioch Dunes National Wildlife Refuge

- USFWS create 55-acre refuge in 1980
- First and only national wildlife refuge specifically for preservation of plants and insects
- Last remaining populations of three endangered species

Antioch Dunes evening primrose
Contra Costa wallflower
Lange’s metalmark butterfly
The Restoration Project

- Port responsible for securing dredged material placement sites for USACE maintenance dredging program
- Port led collaboration efforts to provide sandy material from USACE maintenance dredging to the dunes
- First Port/USFWS partnership to restore endangered species habitat through beneficial reuse
Objectives

• Restoration of dune habitat for protection of endangered species
• Safe, efficient, cost-effective placement of dredged material
Overcoming Obstacles

• Previously difficult to get agency approval for beneficial reuse

• Over a decade, the Port conducted research at its placement sites throughout the Delta
  – Placement had no adverse impacts to soil, groundwater, surface water
  – Water quality improved in underlying groundwater

• Several years of regulatory agency negotiation
Multi-agency Collaboration and Benefits

Strong partnership between Port, USACE, USFWS, NMFS, and Central Valley RWQCB

- Reduced dredging-related costs
- New environmentally beneficial reuse for dredged material
- Free, ongoing local sand source
- Faster restoration, fewer environmental impacts
- Achieved authorized maintenance dredge depths
Implementation

• Containment berms/levees constructed on site to dewater dredged material

• Since 2014, 40,000+ cy of clean sand reused to create dune habitat
Results

• Increase in endangered butterfly population
• Regional air quality benefit
• A first in this region
• Increased public awareness of Port environmental stewardship
Stakeholder Awareness, Education & Involvement

Barn Owl Nest Box Program
Barn Owls

- Nest in hollow trees, barns, and abandoned structures
- Active at night
- Hunt ground mammals, especially rodents
- Pairs mate for life
Natural Defense Against Rodents

• Gophers and ground squirrels burrow into Port levees

• Rodents trouble Port tenants transporting agricultural products

• More barn owls = fewer rodents and a safer Port
Nest Box Program

• 20 active Port-manufactured nest boxes
• Approximately 6 owlets per box = 120 owls per year
• Cameras stream live to Port website, so the public can follow adult owls nesting and growth of owl chicks
Objectives

Environmental Benefit

• Enhance barn owl population
• Protect levees
• Provide natural rodent control and reduced need for chemical controls

Stakeholder Engagement

• Increase awareness of Port projects, including environmental stewardship programs
• Encourage ongoing public involvement with the Port
Education and Involvement Efforts

• Interior and exterior infrared video streams live to Port website

• Information booth and stuffed owls at local events

• Programs with elementary school students
Results – Rodent Control

• Boxes have housed more than 300 new owls
• Rodent population controlled without toxic bait or other controls
• Barn owls consume estimated average of 40,000 rodents per year at the Port
Results – Public Engagement

• Owl cam averages more than 200,000 visits per year
• YouTube video compilation has more than 4,000 views
• Increased public engagement with Port programs

Screenshot of a Port Facebook Post
In one month alone, more than 45,000 viewers shared the real-time experience of several owlets hatching, crowing, and flying the coop.
“Teachers really do enjoy it, particularly those that may be teaching biology. Kids, it's very popular with, when you go to the Port's Facebook page, there is a long list of people that have made that one of their favorite.”

—Port Director Richard Aschieris
Communications Awards
Port of Stockton

WELCOME TO THE PORT OF STOCKTON

Located in the fertile San Joaquin Valley, the Port of Stockton is in an ideal position for domestic and international distribution. The Port is situated in the hub of four major freeways, two transcontinental railroads, an international waterway, and a regional airport, and it boasts first-class warehouse storage and handling facilities for both dry and liquid bulk materials. Facilities and equipment to handle break-bulk and containerized cargoes by land or sea.
Port of Stockton
Building for Tomorrow
Annual Report 2015

Annual Reports
Port of Stockton

Vessel Log

Community/Educational Outreach

**ARRIVALS / DEPARTURES** | **VESSEL** | **OPERATION** | **ORIGIN / DESTINATION**
---|---|---|---
**IN PORT**
1/18/17 - 1/25/17 | Dream Ocean | Bagged Rice - Export | Japan
1/21/17 - 1/24/17 | Atlantic Eagle | Slag - Import | Japan
1/21/17 - 1/23/17 | Sea Queen II | Dry Bulk - Export | Guatemala

**DUE IN**
1/25/17 - 1/27/17 | Saga Friga | Steel Products - Import | Korea
1/25/17 - 1/27/17 | Cherry Galaxy | Molasses - Import | Taiwan
1/22/17 - 1/31/17 | New History | Steel Products - Import | Korea
1/29/17 - 2/2/17 | Santa Celia | Dry Bulk - Export | Japan
1/30/17 - 2/4/17 | Abyssinia | Corn/Soybeans - Import | Turkey
2/2/17 - 2/4/17 | Iris Sky | Coils - Import | Japan
2/4/17 - 2/7/17 | Bright Kowa | Steel Products - Import | China

*The Port of Stockton is the 4th busiest port in California!*
Port of Stockton

Union Pacific Rail Welding Facility Ribbon Cutting

Special Events
Port of Stockton

Advantage Stockton – Port of Opportunity

Videos
Port of Stockton

A Peek at the Port

Advertisement
Port of Stockton
Delta Environmental Enhancement Program (D.E.E.P)

Advertisements
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Light Pole Banners

Awareness Messaging
Thank You