

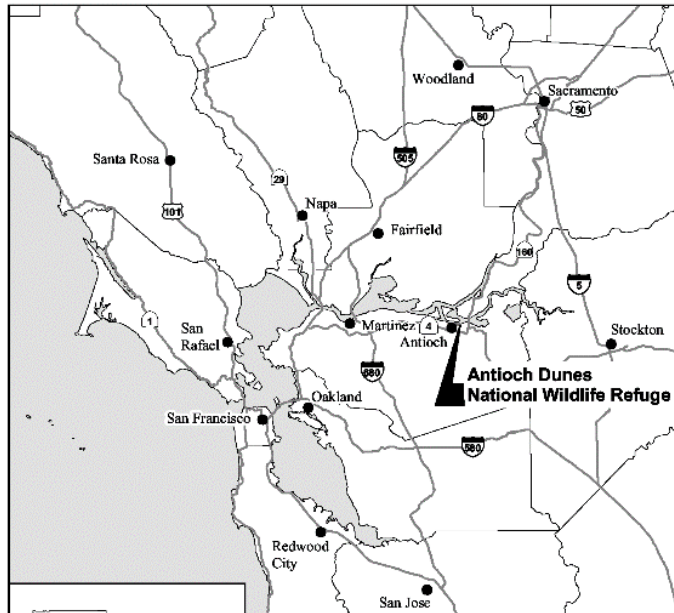


2023 Antioch Dunes NWR San Joaquin River Dredging Project



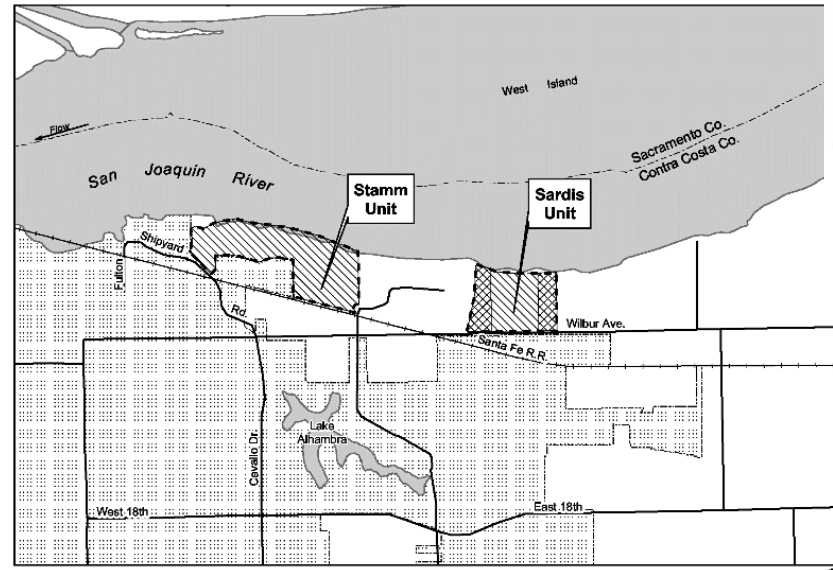
Antioch Dunes NWR Project Location on the Stamm Unit Management Area 2

Figure 1. Location Map



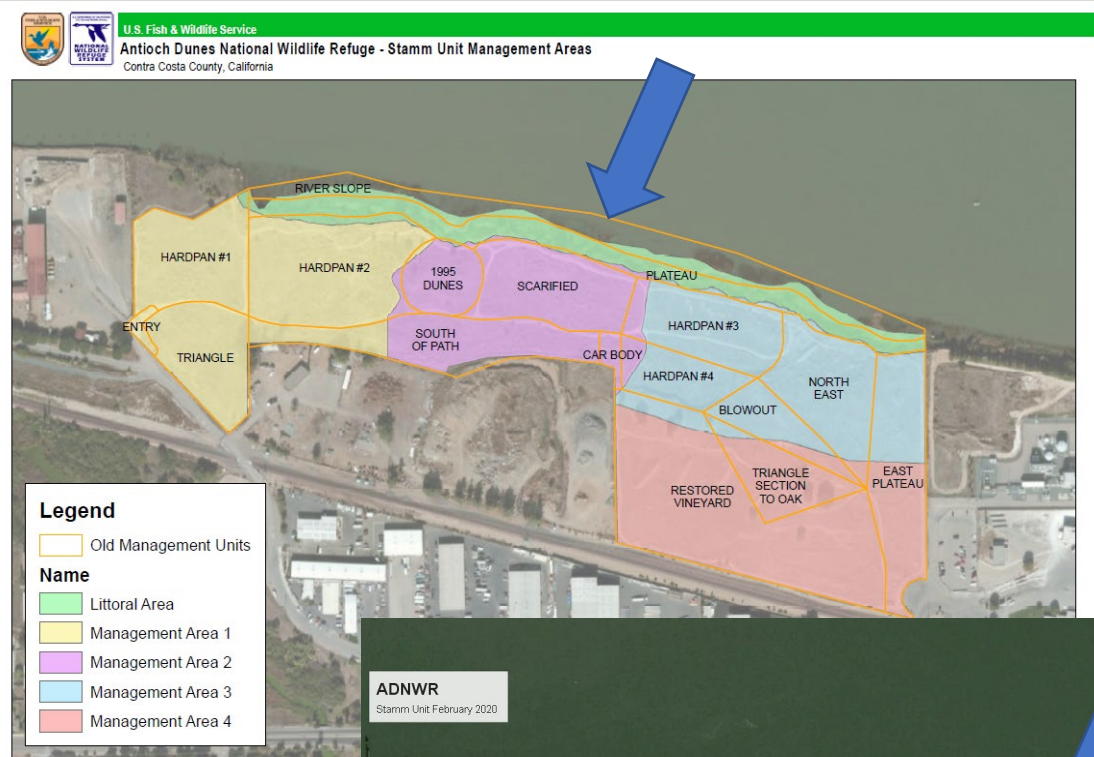
CA/NV Refuge Planning Office - April 2001

Figure 2. Antioch Dunes National Wildlife Refuge



CA/NV Refuge Planning Office, April 2001

-- Approved Refuge Boundary City of Antioch Pacific Gas and Electric Lands U.S. Fish and Wildlife Service Lands



Legend

- Old Management Units

Name

- Littoral Area
- Management Area 1
- Management Area 2
- Management Area 3
- Management Area 4

Path: C:\GIS\Antioch\NRMP\MAs_Apr2015_Stamm.mxd



Legend
Antioch Dunes National

Google Earth

800 ft



Installation of the Dredging Pipeline







US Army Corps and Port of Stockton Contractors preparing site for reception of new sand material with refuge staff guidance. They arrived September 25th, 2023 and finished October 3rd, 2023.



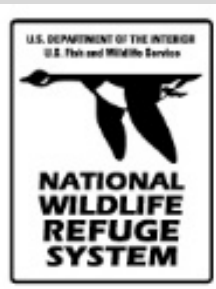


2023 Estimated sand material pumped onto Antioch Dunes 7,859 yds³

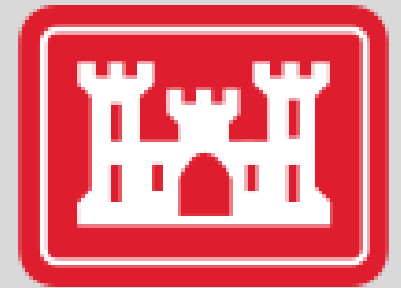




Project Partners:



Port of Stockton
CALIFORNIA





Summary of Beneficial Reuse of San Joaquin River Dredged Sand Material for Sand Dune Restoration at Antioch Dunes NWR

2023 - 7,859 yds³ in MA2
2022 - 9,836 yds³ in MA 2
2020 - 4,000 yds³ in MA 2
2019 -19,510 yds³ in MA2
2017-11,031 yds³ in MA 1
2015 -17,000 yds³in MA 1
2013-40,310 yds³ in MA 1

MA 1 Total: 68,341 yds³
MA2 Total : 41,205 yds³

Stamm Unit Total 109,546 yds³