



Environmental Work Windows

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Federal and State ESA Protected Resources and the LTMS Program



LTMS Environmental Work Windows

- Designated time periods set by the USACE, EPA, BCDC, RWQCB, NMFS, USFWS, and CDFG designed to minimize potential adverse effects on state and federally listed threatened and endangered species
- A result of the terms and conditions Biological Opinions issued in 1999 by NMFS, USFWS, and CDFG to the USACE, EPA and the SWRCB on the LTMS program
- Included in the 2001 LTMS Management Plan

LTMS Environmental Work Windows

- Listed species and species of concern protected by the work windows include chinook and coho salmon, steelhead trout, delta smelt, Pacific herring, California least tern, California clapper rail, salt marsh harvest mouse, dungeness crab, and snowy plover.



- Note: California brown pelican and Sacramento splittail have been delisted. Green sturgeon and longfin smelt are recently listed species under the FESA and CESA, respectively. Work windows for these species have not been developed to date, and may not be appropriate.

Section 7 Consultations under the Endangered Species Act

- Pursuant to **Section 7 of the ESA**, all federal agencies are required to consult with NMFS and/or USFWS on projects they construct, fund, or permit that would have an effect (either beneficial or adverse) on federally listed species to ensure federal actions do not jeopardize the continued existence of a listed species.
- Consultations can be **informal, formal, or programmatic**.

Section 7 Consultations under the Endangered Species Act

- **Informal Consultation** – Under the ESA federal agencies may consult informally if the federal action may affect, but is not likely to adversely affect, a federally listed threatened or endangered species.
- **Formal consultation** – Under the ESA, formal consultation is required when a federal action would be likely to adversely affect a federally listed species and could result in the take of a listed species.

Section 7 Consultations under the Endangered Species Act

- **Programmatic Consultation** – Federal agencies may enter into a programmatic consultation for a category of activities on a program, regional, or other basis.
 - Analyzes the combined effects of all the actions that make up a program, then presents that analysis and its conclusion in a single document
 - Intended to expedite projects, address impacts to listed species, and improve efficiency
 - May be informal or formal consultation depending on the potential adverse effects on listed threatened and endangered species

Maintenance Dredging Work Windows by Area and Species

Site	Species	Jan 1-15	Jan 16-31	Feb 1-15	Feb 16-28	Mar 1-15	Mar 16-31	Apr 1-15	Apr 16-30	May 1-15	May 16-31	Jun 1-15	Jun 16-30	Jul 1-15	Jul 16-31	Aug 1-15	Aug 16-31	Sep 1-15	Sep 16-30	Oct 1-15	Oct 16-31	Nov 1-15	Nov 16-30	Dec 1-15	Dec 16-31
SF Bay Bridge to Sherman Island	Chinook Salmon and Steelhead																								
Carquinez Bridge to Collinsville	Delta Smelt Water <10' *																								
	Delta Smelt Water >10' *																								
Napa and Petaluma Rivers, Sonoma Creek	Steelhead																								
Napa River	Delta Smelt																								
North SF Bay & San Pablo Bay shallow berthing areas	Dungeness Crab																								
Richardson Bay	Pacific Herring																								
North and South Bay																									
Waters of Marin County from the Golden Gate Bridge to Richmond-San Rafael Bridge	Coho Salmon																								
Berkeley Marina to San Lorenzo Creek within 1 mile of coastline	California Least Tern																								
Central Bay	Pacific Herring																								
South of Highway 92 Bridge (San Mateo-Hayward)	California Least Tern																								
In Areas with Eelgrass Beds	California Least Tern																								
Baywide in Areas of Salt Marsh Habitat	California Clapper Rail																								
Baywide within 250 feet of Salt Marsh Habitat	California Clapper Rail																								
In and Adjacent to Salt Marsh Habitat	Salt Marsh Harvest Mouse																								
Within 300' of known roost site	California Brown Pelican																								

For more detailed information, see Appendix F of the LTMS Management Plan or the LTMS EIR/EIS.

* Depths are represented in MLLW, and are project depth, not including over dredge allowance

***This chart is for operations and maintenance dredging of existing navigational facilities. Other species may be affected by work in other areas.

WORK WINDOW

CONSULTATION
REQUIRED

LONG TERM MANAGEMENT STRATEGY



Summary of Disposal Work Windows

Location & Designation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bar Channel (SF-8)												
Carquinez (SF-9)												
San Pablo (SF-10)												
Alcatraz (SF-11)												
Suisun (SF-16)												
Beneficial Reuse Sites												

Disposal Work Windows

Species	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Chinook Salmon	SF-9 & SF-16												
Steelhead Trout	SF-9, SF-10, & SF-11												
Recreational Marine Fishes	SF-10 & SF-11												
California Brown Pelican	Within 300' of known roost site												
California Clapper Rail, Snowy Plover, Salt Marsh Harvest Mouse, Delta Smelt	Beneficial Reuse Site												
Delta Smelt	Suisun Bay & marshes (not SF-16)												
Least Tern	All eelgrass beds, or within 3 miles of nesting area at Alameda Naval Air Station												

(For more information, see Appendix F or the LTMS EIS/EIR)

WORK WINDOW

MINIMIZED
DISPOSAL

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LONG TERM MANAGEMENT STRATEGY



Questions from dredging community regarding the LTMS Work Windows and ESA compliance



LONG TERM MANAGEMENT STRATEGY



LONG TERM MANAGEMENT STRATEGY



Lunch

