

MEMORANDUM

DATE: November 24, 2009

TO: Ivy Edmonds-Hess
Parsons Brinckerhoff

FROM: Steve Granholm, Bird Monitoring Task Leader
LSA Associates, Inc.

FOR: California Department of Transportation

SUBJECT: Bird Monitoring Memo #384, Week of November 9 – 13, 2009
San Francisco – Oakland Bay Bridge East Span Project

PURSUANT TO: US Fish and Wildlife Service Biological Opinion and California Department of Fish and Game Incidental Take Permit

Introduction

The California Department of Transportation (Department) is in the process of replacing the East Span of the San Francisco-Oakland Bay Bridge (SFOBB) with a new bridge immediately to the north of the existing span (Figure 1). Construction of the SFOBB East Span Seismic Safety Project (SFOBB Project) is a multi-year effort that will involve a number of construction activities on land as well as in San Francisco Bay. Some of these activities could potentially affect federally and State endangered or threatened bird species and other bird species of special concern.

Figure 1. San Francisco-Oakland Bay Bridge Seismic Safety Project Location Map

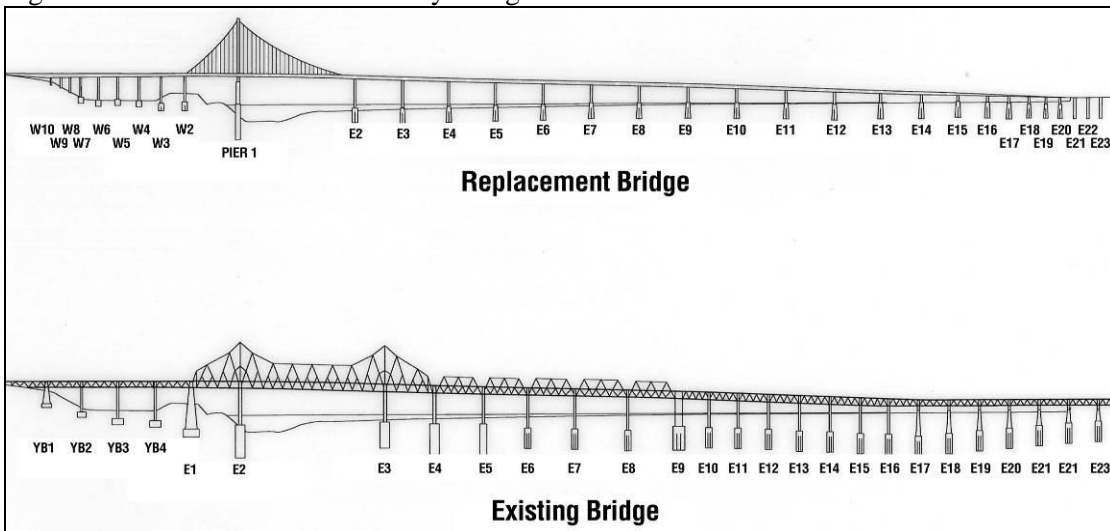


The U.S. Fish and Wildlife Service (USFWS) Biological Opinion (page 22) and the California Department of Fish and Game (CDFG) Incidental Take Permit (Fully Protected Species Items 1 and 2 on pages 4 and 5) require monitoring of the California least tern and California brown pelican. The CDFG is also concerned about potential impacts to the American peregrine falcon and the double-crested cormorant and required a management plan for these species (Fully Protected Species Item 3

on page 5). In addition, the San Francisco-Oakland Bay Bridge East Span Seismic Safety Project Final Environmental Impact Statement/Statutory Exemption and Final Section 4(f) Evaluation (FEIS) (page 4-130) requires that the Department monitor the double-crested cormorant colony and American peregrine falcon during the breeding season.

As required by the USFWS Biological Opinion and CDFG Incidental Take Permit, the monitoring efforts are focused primarily on three endangered species: the California least tern, California brown pelican, and American peregrine falcon. The primary objectives of these monitoring efforts are to minimize impacts to these three species and document any take of these species resulting from construction activities. In addition, monitoring is conducted to assess: 1) potential impacts to the behavior of American peregrine falcons and double-crested cormorants on the existing SFOBB East Span; 2) seasonal Canada goose activities along an exclusion fence built between a portion of the Emeryville Crescent and I-80; and 3) potential impacts on breeding activities of western gulls, which are known to nest on both the existing and new bridges (Figure 2). Monitoring is conducted in accordance with the *Final (Revised) Bird Monitoring and Management Plan* (Department, 2003). This plan incorporated the requirements of the USFWS, the CDFG, and the FEIS, as well as those of the San Francisco Bay Conservation and Development Commission (BCDC) Permit No. 8-01, Special Condition F-6.

Figure 2. San Francisco-Oakland Bay Bridge Pier Locations



The bird monitors are required to conduct a survey once a week for three hours, if construction activities are underway. This memo summarizes the SFOBB project bird monitoring activities conducted by LSA Associates, Inc. (LSA) and Garcia and Associates (GANDA) during the week of November 9 – 13, 2009.

Bird Monitoring Activities

LSA and GANDA conducted monitoring of the active construction areas from GANDA's boat. Construction during the weekly bird survey included workers conducting various activities at the Oakland Touchdown Westbound, South-South Detour, and Self-Anchored Suspension construction sites and crew boat traffic on San Francisco Bay.

The weekly bird survey was conducted from 0920 to 1225 hours on November 11, 2009.

Results

Monitoring of Active Construction Areas

California Least Tern: No least terns were observed.

California Brown Pelican: The bird monitors recorded 31 observations of brown pelicans (some of these may have been repeated observations of the same bird):

- At 0930 hours, one was perched on the south side of existing Pier E20;
- At 0950 hours, one was flying over the Port of Oakland Outer Harbor;
- At 1015 hours, one was perched on the south side of existing Pier E16;
- At 1020 hours, five were perched on the cable-crossing structure;
- At 1035 hours, one was perched on a steel and wood piling adjacent to the pier on the south shore of Yerba Buena Island;
- At 1043 hours, one was flying over Clipper Cove;
- At 1100 hours, ten were resting on the floating dock in northeast Clipper Cove and three were sitting on the water adjacent to the pier on the southeast corner of Treasure Island;
- At 1136 hours, one was flying over the bay just north of the east end of the new bridge;
- At 1155 hours, five were perched on the wood pilings in the Port of Oakland Outer Harbor;
- At 1200 hours, one was perched on the south side of existing Pier E19; and
- At 1202 hours, one was flying over the bay, north of the east end of the existing bridge.

Peregrine Falcon: No peregrine falcons were observed.

Double-crested Cormorant: Approximately 33 double-crested cormorants were observed in the study area. Most were flying and/or foraging in the study area and a few were roosting under the existing bridge. No cormorants were seen on the constructed nest structures on the new bridge.

Western Gull: Approximately 21 western gulls were observed in the study area. Most were foraging or flying.

Observations of Additional Bird Species: Other bird species observed during the survey (and the approximate number of individuals) were greater scaup (200), surf scoter (77), bufflehead (38), ruddy duck (8), Pacific loon (1), horned grebe (10), western grebe (9), Clark's grebe (13), western or Clark's grebe (200), Brandt's cormorant (11), pelagic cormorant (2), mew gull (1), California gull (15), European starling (50), California towhee (1), and house finch (3).

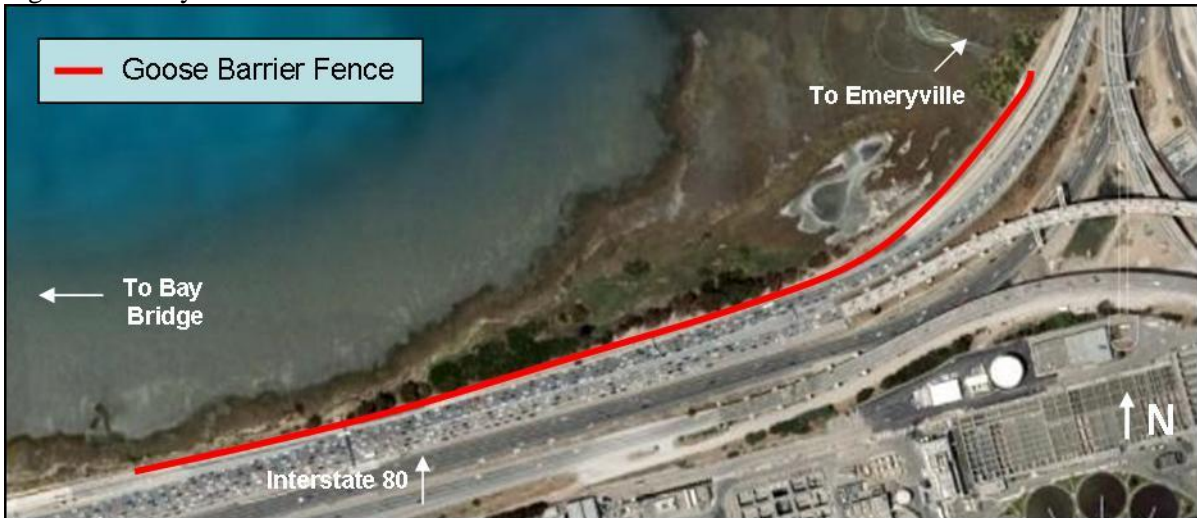
American Peregrine Falcon Nest Monitoring

Peregrine falcon monitoring has concluded for the 2008/2009 nesting season. Monitoring for the 2009/2010 season will resume in December 2009.

Canada Goose Monitoring along the I-80 Roadway Adjacent to the Emeryville Crescent

Bird monitors are required to conduct Canada goose monitoring along the I-80 roadway adjacent to the Emeryville Crescent during March through August (Figure 3). The monitoring season may be extended through September or October, if warranted, based on the presence of geese that may be at risk. The monitoring objective is to assess the effectiveness of an 850-meter (2,800-foot) long fence that was designed to exclude Canada geese from entering the I-80 roadway.

Figure 3. Emeryville Crescent Goose Exclusion Fence



Canada goose monitoring has concluded for the 2009 nesting season. Monitoring for the 2010 season will begin in March 2010.

Conclusions

The monitors did not observe any indications that birds were disturbed due to SFOBB project construction activities.

cc: Stefan Galvez, California Department of Transportation