

SCOPE OF WORK

AERIAL PHOTOGRAPHIC SURVEYS OF BRANDT'S, DOUBLE-CRESTED, AND PELAGIC CORMORANT COLONIES IN SOUTH CENTRAL CALIFORNIA, 2012

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Proposed Work

We propose to conduct aerial photographic surveys of all Brandt's and Double-crested Cormorant colonies, and a small sample of Pelagic Cormorant colonies, in the Torch/Platform Irene Oil Spill Restoration Plan area (Point Sur to Ventura plus the northern Channel Islands) in 2012. Digital photos will be archived for interpretation/counting at a later date when funds become available.

Methods

Surveys in 2012 will be conducted jointly by USFWS and UCSC personnel in a CDFG fixed-wing Partenavia aircraft. Survey personnel will include two photographers and one data recorder. Photographs will be taken with high resolution digital SLR cameras and saved to external hard drives. Because of extremely asynchronous and variable timing of breeding, Channel Islands surveys must be conducted three times between mid-April and mid-June. Colonies between Point Sur and Point Conception will be surveyed once in late May to early June.

Products

No written products will be produced. Digital photographs will be archived on computers and external hard drives at both the San Francisco Bay National Wildlife Refuge Complex and University of California Santa Cruz.

Budget

See next page

TORCH / PLATFORM IRENE
DRAFT ESTIMATED BUDGET
AERIAL SURVEYS OF SEABIRD COLONIES, FEDERAL FISCAL YEAR 2010
(Includes counting colonies from Pt. Sur to Ventura)

4/24/2012

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CATEGORY	ESTIMATED COST
U.S. FISH AND WILDLIFE SERVICE - SAN FRANCISCO BAY NWRC	
Salaries/benefits	
Salaries/benefits (surveys, project oversight)	\$ 1,000
Travel	\$ -
Supplies and Equipment maintenance	\$ -
Refuge Administration	\$ 1,000
subtotal SAN FRANCISCO BAY NWRC	\$ 2,000
USFWS Regional Office Indirect Cost for Inhouse Funds (11%)	\$ 220
TOTAL SAN FRANCISCO BAY NWRC	\$ 2,220
COOPERATIVE AGREEMENTS/CONTRACTS	
Survey Crew	
Salaries/benefits	
Survey Crew, Pt. Sur to Pt. Conception: 2 person days @ \$360/day	\$ 720
Survey Crew, southern California: 10 person days @ \$360/day	\$ 3,600
Survey prep and post-survey data handling: 10 person days @ \$360/day	\$ 3,600
Travel	\$ -
Supplies and Equipment maintenance	\$ -
subtotal Survey Crew (direct costs)	\$ 7,920
Indirect cost (17.5%)	\$ 1,386
subtotal Cooperative Agreements/Contracts	\$ 9,306
USFWS Regional Office Indirect Cost for Pass-Through Funds (6%)	\$ 558
TOTAL COOPERATIVE AGREEMENTS/CONTRACTS	\$ 9,864
Total Survey Staff Project Cost	\$ 12,084

CDFG plane costs (tab 2) \$ 11,200

Total 2012 Aerial Survey Costs **\$ 23,284**

CATEGORY	FY 2011 ESTIMATED COST
CALIFORNIA DEPARTMENT OF FISH AND GAME	
Flight time, Pt. Sur to Pt. Conception surveys (1 days x 8 hrs/day x \$350/hr)	\$ 2,800
Flight time, Northern Channel Islands (3 days x 8 hrs/day x \$350/hr)	\$ 8,400
TOTAL CALIFORNIA DEPARTMENT OF FISH AND GAME	\$ 11,200