

National Fish and Wildlife Foundation Project Proposal

Project Name and Number: A Preliminary Assessment of the Potential Hazards of the Anticoagulants Diphacinone and Brodifacoum to Salamanders.

Recipient Organization/Agency: U.S. Fish and Wildlife Service, San Francisco Bay National Wildlife Refuge Complex

Signatory Name, Title and Contact Information (The person who will be signing the Letter of Donation on behalf of Organization/Agency): Gerry McChesney, Manager, Farallon National Wildlife Refuge,
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Recipient Organization Web Address: <http://www.fws.gov/refuge/farallon/>

Date Submitted: April 6, 2016

Period of Performance: May 1, 2016 – November 15, 2016

Summary of Proposed Project Activities:

We propose a study, using live-captured or purchased salamanders to do a preliminary assessment of the potential hazards of two anticoagulants to those animals. Three routes of exposure would be examined: 1) allowing salamanders to feed on crushed anticoagulant pellets (direct internal exposure), 2) allow the salamanders to consume insects that have fed upon anticoagulant pellets (indirect internal exposure, and 3) spraying salamanders with water that has been used to soak anticoagulant pellets (direct external exposure). These studies would be conducted at the USDA National Wildlife Research Center in Fort Collins, Colorado, under an IACUC-approved study protocol.

Summary of Proposed Budget:

The budget needed for the study would be about \$34,802.58 to fund staff, pay for travel to capture and transport salamanders; provide supplies, support animals care staff and needs, and the required indirect costs.

Project Manager:

Name: Gerry McChesney

Title: Manager, Farallon National Wildlife Refuge

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Program Synopsis: This is a multi-partner project led by the USFWS. Other partners and collaborators include DOI Restoration Support Unit, Point Blue Conservation Science, and USDA National Wildlife Research Center. This project will support the management goals of the Farallon National Wildlife of helping to restore the native ecosystem of the Farallon Islands.

Overall Project Objective: However, anticoagulant rodenticides may pose hazards to non-target animals. This can occur through the direct consumption of the rodenticide material or from indirect exposure in which case the non-target animal consumes prey (rodents or insects) or scavenges on dead rodents that have previously consumed the anticoagulant bait.

Overall Project Outcomes: Report by USDA on results of the trials, to be used as a decision support tool in the Final EIS for the Farallon house mouse eradication project .

Overall Project Budget.

Subcontract, Salamander live captures: \$5,000
USDA Wildlife Services, lab trials: \$45,000
Total Budget: \$50,000

NFWF Northern Coastal California Restoration Fund (this proposal): \$34,802.58

Matching Funds:

NFWS North Pacific Seabirds grant: \$15,197.42