

SPONSOR

Department of Fish and Wildlife

RECORD TYPE

Project

PROGRAM OVERSEEING EFFORT

Ecosystem Restoration Program (ERP)

REFERENCE NUMBER

ERP-11-S16

CONTRACT NUMBER

E1183010

STATUS

Active (80% - 99%)

TARGET DATES

Start 2/1/2012

End 10/30/2015

FUNDING

Total Proposed Funding

\$126,273

Total Actual Funding

\$295,088

Fund Sources

Proposition 84 - 6051

Budget Reference

001-099 - State Operations

Delta View ID: DFW_265

A Systems Biology Assessment of Endocrine Disrupting Chemicals in the Delta

The purpose of this project is to develop and apply a microarray to conduct a detailed assessment of the inland silverside, *Menidia beryllina*. The project will generate data on the molecular, behavioral and population-level response of *M. beryllina* to the endocrine disruptors, bifenthrin and ibuprofen, and the treated wastewater from three San Francisco Bay-Delta outfalls. The three outfalls will be selected based on wastewater treatment plant volume, location in the vicinity of previous contaminant assessments, accessibility and likely presence of bifenthrin and ibuprofen. Two treatment plants will be secondary level wastewater plants and one plant will be a tertiary level wastewater treatment plant.

CONTACTS

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ALIGNMENT WITH THE DELTA PLAN

GOAL

Governance

CORE STRATEGY

G CS 1

Delta Plan

Ch 2 - G policies and recommendations: Administrative

PERFORMANCE MEASURE(S)

NA

CORE STRATEGY

ER CS 3

Delta Ecosystem

Ch 4 - ER policies and recommendations: Improve water quality to protect the ecosystem

PERFORMANCE MEASURE(S)

WQ R8-01

Completion of Regulatory Processes, Research, and Monitoring for Water Quality Improvements

The State Water Resources Control Board develops a proposed policy for nutrients for inland surface waters of the state by January 1, 2014.

CORE STRATEGY

ER CS 4

Delta Ecosystem

Ch 4 - ER policies and recommendations: Prevent introduction of and manage nonnative species impacts

PERFORMANCE MEASURE(S)

ER P5-01

Avoid Introductions of and Habitat Improvements for Invasive Nonnative Species

100 percent of all proposed actions that have the reasonable probability of introducing, or improving the habitat conditions for, nonnative invasive species have demonstrated that the potential for new introductions of and/or improved habitat conditions for nonnative invasive species have been fully considered and avoided or mitigated in a way that appropriately protects the ecosystem.

COORDINATING BODIES

N/A

TYPE

Monitoring, Research/Study

HYDROLOGIC REGION(S)

San Francisco, Delta

TOPICS

Ecosystem Water and Sediment Quality