

CALIFORNIA COASTAL COMMISSION

45 FREMONT, SUITE 2000
SAN FRANCISCO, CA 94105-2219
VOICE AND TDD (415) 904-5200
FAX (415) 904-5400



Th6

DATE: January 26, 2017

TO: Commissioners and Interested Parties

FROM: John Ainsworth, Acting Executive Director
Susan Hansch, Chief Deputy Director
Christiane Parry, Public Education Program Manager
Sylvie Lee, Grants Program Coordinator

SUBJECT: **Proposed Competitive Grants for Fiscal Year 2016/2017 from the Commission's WHALE TAIL® Grants Program.** The Executive Director recommends that that the Commission **approve** the following proposed competitive grants for Fiscal Year 2016/2017.

SUMMARY OF STAFF RECOMMENDATIONS

Approve the following 27 competitive grants totaling \$522,220 and serving the following areas:

A) Youth programs—\$163,373

- (1) Concordia University Irvine (Orange County)
- (2) Environmental Traveling Companions (SF Bay Area)
- (3) Los Angeles Maritime Institute (Los Angeles County)
- (4) Natural History Museum of Los Angeles County Foundation (Orange County)
- (5) Outdoor Outreach (San Diego County)
- (6) Pacific Environmental Education Center (Fort Bragg)
- (7) Real Good Fish/ Social & Environmental Entrepreneurs (Monterey County)
- (8) Redwood Community Action Agency (Eureka)
- (9) Rio School District (Oxnard)
- (10) San Diego Audubon Society (San Diego)
- (11) San Francisco International Ocean Film Festival (San Francisco and East Bay)
- (12) Santa Barbara Channelkeeper (Santa Barbara)

- (13) Seven Tepees Youth Program (San Francisco)
- (14) STAR, Inc. (Greater Los Angeles)
- B) Programs for the general public—\$202,247
 - (15) Groundswell Coastal Ecology/Social & Environmental Entrepreneurs (Santa Cruz)
 - (16) International Documentary Association (SF Bay Area and wider audience)
 - (17) Noyo Center for Marine Science (Fort Bragg)
 - (18) Tolowa Dunes Stewards/Friends of the Dunes (Del Norte County)
 - (19) Turtle Island Restoration Network (San Francisco Bay Area)
 - (20) Ventana Wildlife Society (Big Sur)
- C) Climate education programs (youth/general public)—\$85,672
 - (21) Aquarium of the Pacific (Long Beach)
 - (22) Central Coast Salmon Enhancement (San Luis Obispo County)
 - (23) University of Washington (inland northern California)
- D) Adopt-A-Beach programs (general public) —\$70,928
 - (24) bay.org (San Francisco)
 - (25) Humboldt Redwoods Interpretive Association (northern Mendocino County)
 - (26) Northcoast Environmental Center (Humboldt County)
 - (27) Orange County Coastkeeper (Huntington Beach, Newport Beach, Dana Point)

I. MOTION AND RESOLUTION

Motion:

*I move that the Commission **approve** the funding allocations set forth in the staff recommendation.*

Staff recommends a **YES** vote on the foregoing motion. Passage of this motion will result in authorization of the Executive Director to enter into the appropriate agreements for disbursing the available funds. The motion passes only by affirmative vote of a majority of the Commissioners present.

Resolution:

The Commission hereby approves and authorizes the Acting Executive Director or his designee to enter into the appropriate grant agreements for 27 projects.

II. INTRODUCTION

WHALE TAIL® License Plate

The California Coastal Commission's WHALE TAIL® License Plate was established as a mechanism through which the public can contribute funds to coastal and marine education

programs in California. For each new plate that is sold, approximately \$11 is deposited in the California Beach and Coastal Enhancement Account (CBCEA). Annual renewal fees deposit approximately \$21 per plate into the account. Additional funds are deposited in the Environmental License Plate Fund (ELPF), which funds environmental programs in other state agencies. As of December 31, 2016, a total of 240,651 license plates have been sold. WHALE TAIL® License Plate sales and renewal fees (plus miscellaneous other small fees) have contributed \$26.8 million to the CBCEA, and \$66.1 million to the ELPF. (The additional fees that are charged for personalized plates go to the ELPF.)

The majority of the funding from the CBCEA supports the Coastal Commission’s Public Education Program. In addition, the State Coastal Conservancy receives a portion of the CBCEA funds. The ELPF funds a variety of environmental programs in state agencies such as the Natural Resources Agency, California Conservation Corps, the Department of Forestry and Fire Protection, the Department of Fish and Wildlife, California State Parks, and many others.

California Vehicle Code Section 5067 dictates how the funds raised by sales of the WHALE TAIL® plate and deposited in the CBCEA account are to be used:

“Upon appropriation by the legislature, the money in the account (CBCEA) shall be allocated by the Controller as follows: (A) First to the California Coastal Commission for expenditure for the Adopt-A-Beach program, the Beach Cleanup Day program, coastal public education programs, and grants to local governments and nonprofit organizations for the costs of operating and maintaining public beaches related to these programs.” (B) Second, from funds remaining after the allocation required under subparagraph (A), to the State Coastal Conservancy for coastal natural resource restoration and enhancement projects and for other projects consistent with the provisions of Division 21 (commencing with Section 31000) of the Public Resources Code. (As amended in 2004 in Budget Trailer Bill SB 1107.)

Protect Our Coast and Oceans Fund

The Protect our Coast and Oceans “check box” on the California state tax return form was created pursuant to legislation authored in 2013 by former Assemblymember Al Muratsuchi. Per Article 5.1 (Sections 18745-18748) that was added to Chapter 3 of the Revenue and Taxation Code:

“All money designated under the Protect Our Coast and Oceans Fund space on a tax return ... shall be allocated as follows:

(a) To the Franchise Tax Board and the Controller for reimbursement of all costs incurred by the Franchise Tax Board and the Controller in connection with their duties under this article.

(b) (1) To the California Coastal Commission to support eligible programs awarded grants under the selection criteria established by the California Coastal Commission for the Whale Tail Grants Program, and for direct program-related expenses.”

In January 2014, California taxpayers began making voluntary contributions to the Protect Our Coast and Oceans Fund while completing their state tax returns. As of December 31, 2016, \$841,941 has been donated to this fund. The funding recommendations in this staff report will be funded by both the license plate and the “check box.”

Grantmaking Budget

The final approved budget for FY2016/17 includes \$868,000 for local assistance grants, the highest one-year total this program has offered: \$503,000 from the CBCEA and \$365,000 from the Protect Our Coast and Oceans Fund. At its August 2016 meeting, the Commission voted to allocate the \$868,000 as follows: six targeted grant projects totaling \$349,850, a temporary reserve of \$30,000 to be awarded later in the fiscal year, and the remaining \$488,150 for the competitive grantmaking program.

For a listing of the six targeted grants, and other recent grants that have been funded through sales of the WHALE TAIL[®] License Plate, see Attachment A. (For a complete listing of all WHALE TAIL[®] grants ever awarded, please visit the online map of WHALE TAIL[®] Grant Recipients Since 1998 at <http://www.coastal.ca.gov/publiced/plate/plgrant.html>.)

Since September 2016, there were changes to several of the targeted grants and to the \$30,000 temporary reserve:

- \$20,000 granted to the Tides Center/Marine Education Project for the Community-Based Restoration and Education Program ended up not being needed due to staffing changes. The staff has added this amount to the competitive grants budget.
- A sum of \$4,265 was not needed by beach wheelchair grantees, partly due to some costs savings provided by the wheelchair manufacturer, but primarily due to the City of Pacifica declining the funding for a wheelchair and storage locker, as the City has determined it does not have the necessary staffing to manage loaning out a chair at this time. (The situation had still been under review by the City when the grant was awarded.) The staff has added this amount to the competitive grants budget as well.
- An amount of \$1,405 ended up not being needed by the National Fisheries Conservation Center for the Kids' Adopt-A-Beach Assembly and Beach Cleanup Program. The staff has added this amount to the competitive grants budget too.
- An additional sum of \$8,000 was needed from the \$30,000 reserve by the Tides Center/Marine Education Project for the statewide School-Based Marine Education Program. In August 2016, Commissioners directed the Acting Executive Director to increase the targeted grant awards using funds from the reserve if any of the targeted grants needed more funds to successfully complete a project. The Acting Executive Director has authorized this increase.
- An additional \$3,000 from the reserve was requested by the Malibu Foundation for Environmental Education to serve 300 more students from underserved schools in Los Angeles as part of the Kids' Adopt-A-Beach Assembly and Beach Cleanup Program. The Acting Executive Director has also authorized this increase from the \$30,000 reserve.
- The staff is recommending that \$10,600 from the reserve be allocated to the County of Santa Barbara for four beach wheelchairs (see Item Th5 on this month's Commission meeting agenda).
- The staff is allocating the remaining \$8,400 from the \$30,000 reserve to this year's competitive grantmaking program.

Therefore, this report describes the staff's recommendations for expenditure of \$522,220, the new balance available for competitive grants (\$488,150 originally authorized, plus a total of \$25,670 not needed by targeted grantees, plus a balance of \$8,400 remaining in the temporary reserve).

The Competitive Grants Program for FY2016/2017

The WHALE TAIL® Competitive Grants Program offers the following four funding subcategories:

- A) coastal and marine outreach and education for youth;
- B) coastal and marine outreach and education, as well as beach and other coastal habitat improvement activities, for adults and the general public;
- C) strengthening and innovating year-round Adopt-A-Beach programs; and
- D) projects addressing climate change and/or ocean acidification.

The staff began publicizing the grant program in September 2016. The deadline for submittal of grant applications was November 1, 2016. Applicants could request any amount up to \$50,000, and between 25 and 50 percent of the grant funds are to be allocated in small grants no greater than \$12,000.

Competitive Grants Applicant Pool

The staff received 102 grant applications requesting a combined total of \$3,045,664 which equals close to six times the amount of funding available. Attachment B is a list of the applicants, project titles and amounts requested for this funding cycle.

Selection Criteria

The staff evaluated the applications using the following criteria, first approved by the Commission in 1998 and slightly modified with Commission approval in 2009 and 2013:

- 1. Educational Component (25 points):** Projects funded under this program should have a strong, high-quality educational component involving the marine or coastal environment. We encourage experiential, hands-on learning and incorporation of stewardship, where possible. The project's educational content and mode of delivery should be age-appropriate for the target audience. Projects aiming to improve the quality of beaches or other coastal habitats will be considered as well
- 2. Need:** Projects will be assessed on the degree to which they address an identified need (educational, ecological, social, etc.). Projects that reach audiences in underserved communities, including multicultural and inland areas, are especially encouraged.
- 3. Project Concept (30 points):** We seek thoughtfully developed ideas, technically sound concepts, and creative and innovative approaches that are potentially expandable or applicable in other geographic areas. The degree to which a project could potentially be expanded or continued after the grant ends, and/or build organizational or audience capacity, will be considered. The degree of impact relative to the cost will also be evaluated. Up to 5 points of extra credit will be awarded if the project will have ripple effects beyond itself, by providing tools or knowledge to others in the field, advancing the field into new areas, or building collaborations with other entities.
- 4. Proposal Content:** The proposal should demonstrate that the concept has been fully thought out and developed into a concrete, feasible project with clearly stated goals, measurable objectives, project design, and method of implementation. A sensible plan for evaluating the project's success should be included, as should detailed and accurate cost

information. The likelihood of the project’s successful completion will be considered, as well as the strength of the organization’s track record and capabilities of project personnel.

Reaching Diverse and Underserved Audiences

One of the primary goals of this grantmaking program is to use funding to reach diverse and underserved audiences that are unlikely to receive coastal and marine education from other sources. These audiences include low-income populations, inland and rural communities, English language learners, and at-risk youth.

In this year’s pool of recommended grants, 52% of the projects focus entirely on underserved and under-resourced communities. (For example, many youth programs entirely target a low-income population, such as Seven Tepees Youth Program, which is requesting funds solely to host students from underserved San Francisco schools.) Another 33% contain a mix of both underserved groups and the general population. (Noyo Center for Marine Science, for instance, is translating exhibit materials for Spanish-speaking visitors but will also be reaching other members of the general public too.) The remaining 15% focus on the public at large.

Geographic Considerations

The staff takes geography into account in making its funding recommendations with the goal that all Californians have opportunities to learn about and experience the coast and ocean. The majority of the recommended funding focuses on population centers in coastal areas, reflecting that these areas have great needs as well as a large number of submitted proposals. However, in selecting projects, the staff strives to ensure that less populous rural and inland portions of the state also are represented.

III. STAFF RECOMMENDATIONS FOR COMPETITIVE WHALE TAIL® GRANT AWARDS FOR FY 2016/17

The staff recommends that the Commission fund the 27 programs listed below (\$522,220 total).

The staff also recommends that the grants be funded from the following sources:

WHALE TAIL® License Plate (CA Beach & Coastal Enhancement Account)	Voluntary contributions on state tax return (Protect Our Coast and Oceans Fund)
Aquarium of the Pacific—\$11,980	bay.org—\$30,000
Central Coast Salmon Enhancement—\$25,000	Environmental Traveling Companions—\$18,000
Concordia University Irvine—\$11,963	Los Angeles Maritime Institute—\$12,000
Groundswell Coastal Ecology—\$25,000	Northcoast Environmental Center—\$6,928
Humboldt Redwoods Interpretive Assn. —\$24,000	Noyo Center for Marine Science—\$35,075
International Documentary Association—\$50,000	Orange County Coastkeeper—\$10,000
Natural History Museum of LA County—\$24,380	Pacific Environmental Ed. Center—\$1,000
Outdoor Outreach—\$12,000	Real Good Fish—\$12,000
Santa Barbara Channelkeeper—\$6,000	Redwood Community Action Agency—\$13,570
Tolowa Dunes Stewards—\$38,170	Rio School District—\$11,771
University of Washington—\$48,692	San Diego Audubon Society—\$8,689
Ventana Wildlife Society—\$30,775	Seven Tepees Youth Program—\$10,000
	SF International Ocean Film Festival—\$12,000
	STAR Inc.—\$10,000
	Turtle Island Restoration Network—\$23,227
Total Competitive Grants—\$307,960	Total Competitive Grants—\$214,260
Total previously allocated—\$195,040	Total previously allocated—\$150,740
Grand total allocated FY 2016/17—\$503,000	Grand total allocated FY 2016/17—\$365,000

(1) \$11,963 FOR CONCORDIA UNIVERSITY IRVINE

Project Title: Marine Lab and Educational Outreach Program
Project Location: Orange County
Project Timeline: March 2017 – April 2019
Total Project Budget: \$53,614
Estimated number of people served by the project: 3,000-5,000

An Assistant Professor of Biology at Concordia University is requesting funding to continue and enhance an outreach program at the university’s marine lab. The marine lab consists of a 2,000-gallon recirculating seawater aquarium system and 11 different marine tanks. The lab is not only used for student research projects but also serves as the base for a mobile outreach program that was launched in 2016. Using traveling seawater trays stocked with local marine invertebrates, trained undergraduate students help teach local schoolchildren about the live animals.

With support from a WHALE TAIL® grant, Concordia University would host open hours at the lab on campus for the public and visiting school groups, as well as mobile programs offsite. The mobile programs would target underserved schools in Orange County and would teach students about the biology of marine animals and their place in the ecosystem, and for longer programs, hands-on experiments covering concepts of ocean science including ocean acidification. In order to further promote ocean literacy, the university would also do in-depth work developing a marine science curriculum for teachers at Heritage Elementary School in Tustin, Orange County’s first public STEAM (Science, Technology, Engineering, Art, and Math) magnet school. This grant would also support additional equipment for the marine lab, such as additional tanks and lighting, as well as an inflatable raft for collecting the marine specimens (under a scientific collecting permit from the California Department of Fish and Wildlife).

(2) \$18,000 FOR ENVIRONMENTAL TRAVELING COMPANIONS

Project Title: Youth LEAD Program: Watershed Exploration
Project Location: San Francisco Bay Area
Project Timeline: March 2017 – March 2019
Total Project Budget: \$182,000
Estimated number of people served by the project: 1,170

Environmental Traveling Companions (ETC) leads confidence-building outdoor adventures for people with disabilities and underserved youth, including those with physical challenges, visual impairment, chronic conditions, and low-income families. In this project, ETC would recruit 50-60 teens to participate in a watershed-focused Youth LEAD Program (Leadership, Environment, Adventure, Diversity). Participants would primarily come from Bay Area social service agencies or after-school programs. Programs would last two to three weeks and would involve participants in exploring their watershed “from sea to source” as they kayak on San Francisco and Tomales Bay, raft on the American River, and hike at headwaters in the Sierra.

In a related component, this grant would also support ETC in developing a Watersheds Exploration Curriculum to be used for at least the next three years. In order to deepen the education of the teens taking part in the Youth LEAD Program, the new curriculum would integrate watershed literacy with hands-on exploration and leadership development, emphasize marine and coastal ecology, explore issues facing the Bay and the ocean, and incorporate culturally relevant elements and stewardship and sustainability solutions. ETC would train instructors and travel guides in this new curriculum, and they would field-test it before completing the final version.

(3) \$12,000 FOR LOS ANGELES MARITIME INSTITUTE

Project Title: "Make Waves" Exploration & Literacy Program
Project Location: Los Angeles County
Project Timeline: March 2017 – May 2018
Total Project Budget: \$120,000
Estimated number of people served by the project: 225

Los Angeles Maritime Institute (LAMI) is requesting funding to purchase laboratory equipment and host middle and high school students from schools in under-resourced communities of Los Angeles County, focusing on schools where 90-100% of the students are living at or below the federal poverty level. The students would act as a marine biologist for part of a day as they experience a three-hour program onboard one of LAMI's two tall ships in the Los Angeles Harbor and nearby coastal waters. During the trip, they would learn how to measure wind and water quality and discuss the impacts of poor water quality. They would learn how to identify the different parts of a ship and different types of plankton, and they would estimate the plankton's population size based on samples, discussing whether or not the size implies a healthy sampling area. The students would also be covering scientific topics such as photosynthesis, cellular respiration, and cell biology. Finally, they would use ROVs (remotely operated vehicles) to do their own underwater exploration of the bottom of the harbor. The overall program would raise awareness about the value of ocean resources, threats to ocean health, and solutions to these problems, as the students experience the excitement of sailing aboard a tall ship.

(4) \$24,380 FOR NATURAL HISTORY MUSEUM OF LOS ANGELES CO. FOUNDATION

Project Title: Coastal Biodiversity: Student Involvement & Citizen Science
Project Location: Orange County
Project Timeline: April 2017 – March 2019
Total Project Budget: \$48,090
Estimated number of people served by the project: 270

The Natural History Museum of LA County (NHM) includes a Marine Biodiversity Center which has a research program called the Diversity Initiative for the Southern California Ocean (DISCO). It involves genetic sequencing of marine animals off the coast, which once completed, would allow for the ability to efficiently inventory field samples of marine macroinvertebrates (which comprise 96% of ocean-dwelling species) to track their geographic distribution over time and enable rapid detection of subtle changes to coastal biota that accompany variations in ocean temperature and acidity. As part of an effort to involve students in this hands-on research to compile a "library" of genetic sequencing "bar codes" for individual species, NHM is collaborating with a high school science teacher at Sage Hill School in Newport who has developed student activities involving molecular sequencing of marine invertebrates. Sage Hill School, in turn, has partnerships with younger students at underserved schools in Santa Ana.

In this project, each year a small number of high school students would be trained in, and then help teach middle school students to do, field collection as well as laboratory work in genetics. Each student would collect, sort, and photograph marine invertebrates that live on docks and pilings in marinas; take a tissue sample; and use a kit to isolate the DNA. The DNA samples would be sent to a commercial facility for sequencing. Students would download the sequences once they're posted online and register them in an international database.

In another component for adult citizen scientists, NHM would collaborate with USC Sea Grant to train approximately 200 boaters to identify invasive species at their marinas and alert project managers of their findings. NHM is especially interested in having the public act as an “early warning system” by helping identify invasive species that might be arriving at Orange County harbors in the near future such as colonies of sea squirts and Asian kelp.

(5) \$12,000 FOR OUTDOOR OUTREACH

Project Title: YES San Diego: Youth Environmental Stewardship Project
Project Location: San Diego County
Project Timeline: March 2017 - June 2018
Total Project Budget: \$15,111
Estimated number of people served by the project: 140

Outdoor Outreach provides adventure-based recreational learning opportunities to teens who face multiple barriers to accessing outdoors areas surrounding their communities. This grant would support outdoor environmental education and stewardship outings for 140 teens from urban San Diego areas recruited from low-income schools, social service organizations, and programs for foster youth, homeless youth, and youth in the juvenile justice system.

Through this project, Outdoor Outreach would take these teens on a minimum of 18 outings to coastal locations in San Diego. At least six programs would take place at the San Diego Bay National Wildlife Refuge, where the teens would learn about coastal animals and habitats at the Living Coast Discovery Center, kayak on Sweetwater Marsh, and help restore native plants in Imperial Beach. At least four stewardship projects would take place at Border Field State Park, including installing native plants, removing invasive species, and removing trash during Tijuana River Action Month. At Cabrillo National Monument, at least five programs would take teens hiking down the coast then lead them on a guided tidepooling activity. Finally, at least three programs would take place in the Escondido Creek watershed, teaching the youth how pollutants flow downstream from Escondido to the San Elijo Lagoon and beaches.

(6) \$1,000 FOR PACIFIC ENVIRONMENTAL EDUCATION CENTER

Project Title: Update and Re-Supply of Curriculum Materials
Project Location: Fort Bragg
Project Timeline: April 2017 – June 2017
Total Project Budget: \$1,000
Estimated number of people served by the project: 850 annually

The Pacific Environmental Education Center (PEEC) is a nonprofit residential outdoor school on the Fort Bragg coast serving students from Redding, Lake County, Sebastopol, Round Valley Indian Reservation, and other communities in Mendocino County and northern California. PEEC offers a science camp primarily for students in fifth through eighth grades and teaches them through field studies about the tidepools, sand dunes, redwood and pygmy forests, estuary, and coastal headlands, emphasizing people’s interdependence with the natural world.

PEEC is requesting a modest amount of funding to update and bolster the curriculum supplies that the staff uses for programs. These include field guides for tidepools, coastal wildflowers, and coastal mushrooms; educational texts for staff development; and new observation boxes with magnifying lenses so students can safely handle and observe living organisms such as salamanders or tidepool specimens.

(7) \$12,000 FOR REAL GOOD FISH/SOCIAL AND ENVIRONMENTAL ENTREPRENEURS**Project Title: Bay2Tray - Fishermen in the Classroom****Project Location: Monterey County****Project Timeline: March 2017 – February 2018****Total Project Budget: \$37,000****Estimated number of people served by the project: 700**

Real Good Fish is an award-winning Community Supported Fishery that involves local fishermen providing sustainably caught seafood to members who subscribe to their fish deliveries. Real Good Fish also operates the “Bay2Tray” program, which provides fish to school districts to use in their lunches. The educational component of Bay2Tray, Fishermen in the Classroom, is run in partnership with the Monterey Bay National Marine Sanctuary and brings the fishermen to local schools to teach children about their jobs, the ocean, and the importance of sustainable seafood.

This grant, through the fiscal sponsor Social and Environmental Entrepreneurs, would pay for fishermen to give approximately 25 presentations to schools in the Monterey Bay area in cities such as Seaside, Marina, and Monterey. This grant would also pay for the fishermen to first be trained by Monterey Bay National Marine Sanctuary educators. In another component not supported by this grant, fishermen will also use live streaming technology to talk to classrooms from their boats on the water in real time.

(8) \$13,570 FOR REDWOOD COMMUNITY ACTION AGENCY**Project Title: SWPPP’n Up: Reaches to Beaches****Project Location: Eureka****Project Timeline: April 2017 – August 2017****Total Project Budget: \$13,570****Estimated number of people served by the project: 60**

The Natural Resources Services Division of the nonprofit Redwood Community Action Agency (RCAA) is a member of the North Coast Stormwater Coalition. In this proposed year-long stormwater education project, a sixth-grade science class and a high school biology class in the Eureka City Schools District would learn about stormwater runoff and its effect on the marine environment through monthly programming. In the classroom, the students would have a newly updated stormwater curriculum which would teach them about their school’s place in the watershed, the problem of nonpoint source pollution, the “Great Pacific Garbage Patch,” and how to create a Stormwater Pollution Prevention Plan (SWPPP). This curriculum would be posted on the Stormwater Coalition and RCAA websites for other educators and stormwater managers to potentially use as well.

Next, student teams would conduct a campus-wide stormwater assessment of runoff entering the storm drains, while also identifying pollutants and cleaning up trash they find. The participants would then form groups to help plan and implement a Stewardship Action Plan, consisting of either: installing and then monitoring an on-campus pollutant barrier (such as storm drain screens or gutter guards); help partner organization Friends of the Dunes put on one of its pollution prevention education programs; help lead water quality discussions on their class kayaking trip visiting a storm drain outflow along the Eureka waterfront by kayak; or developing a “Stormwater Quest” for other biology students, which would be a scavenger hunt that would reveal the path of stormwater on campus.

(9) \$11,771 FOR RIO SCHOOL DISTRICT

Project Title: Rio Vista Middle School Sixth Grade Field Trip Series
Project Location: Oxnard
Project Timeline: June 2017 - June 2018
Total Project Budget: \$11,771
Estimated number of people served by the project: 260

Students at Rio Vista Middle School are predominately from low-income families and almost half of them are English Language Learners. In this project, the six-grade students (who are also taking part in a Trout-In-The-Classroom unit) would have the opportunity to participate in all-day outdoor education field trips on the Santa Clara River and at the Ormond Beach Wetlands, rotating through learning stations at each site.

At the Santa Clara River (less than a mile from the school), students would learn the phases of the water cycle, examine a river water sample to determine its suitability as fish habitat, identify native and invasive plants, go bird-watching, and identify any pollution and discuss human impacts on habitat. At Ormond Beach, they would learn about the marine environment, wetlands, birds and marine mammals, reducing ocean pollution, and other native and non-native plants. All trips would provide a field workbook. The learning stations would be led by naturalists with specific knowledge such as members of the California Native Plant Society or the Audubon Society.

(10) \$8,689 FOR SAN DIEGO AUDUBON SOCIETY

Project Title: Sharing Our Shores: Mission Bay
Project Location: San Diego
Project Timeline: April 2017 - May 2018
Total Project Budget: \$8,689
Estimated number of people served by the project: 140 students + public visitors

The San Diego Audubon Society currently offers the “Sharing Our Shores” program at Imperial Beach and the Salton Sea and is requesting support to bring it to Mission Bay. In this project, San Diego Audubon would teach the “Sharing Our Shores” curriculum in four underserved elementary schools in the Mission Bay area. In the classroom, the students would learn about the biology of endangered California Least Terns and other local shorebirds, threats to their survival, and the coastal habitats that support their nesting areas. Students would visit Mariner’s Point, learn about seabirds and plant species, remove invasive plants to prepare the site for nesting, and learn about coastal stewardship.

The students would also take part in a conservation-themed art contest to design beach signs to inform the public about the Least Tern nesting and foraging areas. Fifty winning designs would be made into signs in both English and Spanish. “Sharing Our Shores” operates in collaboration with the US Fish and Wildlife Service, and the USFWS supports the expansion to Mission Bay because that agency has found that vandalism and disturbance of nesting sites decrease when children’s signs get posted.

(11) \$12,000 FOR SAN FRANCISCO INTERNATIONAL FILM FESTIVAL

Project Title: Student Education Program Expansion
Project Location: San Francisco and East Bay
Project Timeline: April 2017 - March 2018
Total Project Budget: \$24,000
Estimated number of people served by the project: 1,200 – 1,600

The San Francisco International Ocean Film Festival screens independent, ocean-inspired films covering a wide variety of ocean-related topics such as marine wildlife, sustainable seafood, health of sharks, and ocean recreation. One of the ways the Festival reaches youth is to bus in middle and high school students who wouldn't have the opportunity to attend otherwise and who may not have a great deal of first-hand experience with the ocean. In order to further reach the next generation of ocean conservationists, SFIOFF is requesting funding to add three additional free student screenings showcasing two hours of curated films from Festival submissions. This would be accompanied by curricula sent to participating teachers beforehand, as well as two hours of art and education enrichment activities on site after the screenings. The 450 students would be bused from schools in San Francisco and East Bay cities such as Oakland and Alameda.

SFIOFF is also requesting funding for a new "Filmmaker in the Classroom" program. This would entail bringing selected films to schools for students who can't attend the Festival in person. An educational consultant and an exhibit designer would create a traveling exhibit which would include an LCD screen to show selected films. Local filmmakers would accompany the outreach team to share their behind-the-scenes experiences with the classes. Five Bay Area schools would be served by the "Filmmaker in the Classroom" program during the first year, and then the exhibit would continue on in the future.

(12) \$6,000 FOR SANTA BARBARA CHANNELKEEPER

Project Title: Seafari Program: On-the-Water Experiential Education
Project Location: Santa Barbara
Project Timeline: March 2017 – December 2017
Total Project Budget: \$17,770
Estimated number of people served by the project: 500

The goal of the Seafari Program is to spread ocean awareness and inspire environmental stewardship, especially for people who lack the opportunity to get out on the water and who have a low level of ocean awareness. This funding would support serving low-income, primarily Latino youth through outreach to local community groups.

Seafari cruises take place aboard Channelkeeper's research vessel. Students travel to Mohawk Reef, a kelp forest about three miles west of Santa Barbara Harbor, where a SCUBA diver goes underwater with a camera connected to a monitor above board. Through the video feed and a wireless communication, the diver shows and tells passengers what they are seeing underwater, and a staff scientist on the deck of the boat discusses with the students the biodiversity of the kelp forests and eelgrass beds of the Santa Barbara Channel, the biggest threats to its habitats, the importance of good water quality, what people are doing protect and restore habitats (including Marine Protected Areas), what kids and their parents can do to prevent harmful pollution, and the effects of ocean acidification, as there is a pH monitoring station located at Mohawk Reef.

Finally, Channelkeeper would live-stream the cruises and the underwater video feed directly to classrooms and other venues, using equipment purchased from a WHALE TAIL® grant last year.

(13) \$10,000 FOR SEVEN TEPEES YOUTH PROGRAM

Project Title: Project WAVES
Project Location: San Francisco
Project Timeline: March 2017 – September 2017
Total Project Budget: \$34,360
Estimated number of people served by the project: 60

The Seven Tepees Youth Program is a nonprofit after-school and summer program for low-income San Francisco youth in middle and high school. They are served at the Seven Tepees Learning Center and at Mission High School.

Project Waves would consist of three programs. The first would involve after-school workshops during the spring for six-graders to engage in hands-on marine and coastal environmental education lessons. Environmental educators from the Greater Farallones National Marine Sanctuary (GFNMS) would help teach the classes, and there would also be field excursions to explore different watershed topics. The second program would take place during the summer for high school students to earn academic credit as they cover basic marine science and ocean literacy principles over six weeks. The students would spend two weeks in a laboratory classroom at Mission High School, two weeks at the NOAA GFNMS Research Pier in San Francisco, three days camping at Point Reyes, and then they would move on to an in-depth research project related to a marine issue and serving as peer educators to other youth at Seven Tepees. And in the third component of Project Waves, middle school youth would participate in service learning and stewardship activities over six weeks during the summer, including beach cleanups and trail restoration at coastal locations, instruction by environmental educators and park rangers, a five-day camping trip, and a final presentation about what they have learned.

(14) \$10,000 FOR STAR, INC.

Project Title: “Get Your Green On”
Project Location: Greater Los Angeles
Project Timeline: June 2017– January 2018
Total Project Budget: \$12,470
Estimated number of people served by the project: 600

STAR provides nationally recognized after-school enrichment programming for students in grades K-6 at 22 schools in greater Los Angeles. The organization also operates STAR Eco Station, a nature center in Culver City featuring a collection of illegally-trafficked animals confiscated by the US Fish and Wildlife Service.

“Get Your Green On” would be a series of eight hands-on environmental education lessons provided to eight elementary schools in high-poverty, multicultural neighborhoods in the Los Angeles Unified School District. The lessons would cover topics including how inland areas are connected with the coast and ocean, climate change and ocean acidification, pollution threats to coastal and estuarine habitats, oil spills, reusing and recycling, and alternative energy. Live rescued animals from the Eco Station would visit the classrooms as the students would learn how these different issues impact wildlife, such as the effects of oil spills on birds. At the end of each lesson, students would receive a take-home worksheet or project to share with their parents. As a way of sharing these lessons with other potentially interested educators, STAR would post all the lessons on the Internet and would present the program at the 2017 California Science Teachers Association conference.

(15) \$25,000 FOR GROUNDSWELL COASTAL ECOLOGY/SOCIAL AND ENVIRONMENTAL ENTREPRENEURS

Project Title: Healthy Coastal Communities
Project Location: Santa Cruz
Project Timeline: May 2017 – July 2018
Total Project Budget: \$93,895
Estimated number of people served by the project: 200 adults + 500 students

Healthy Coastal Communities is a project bringing together adult community volunteers, at-risk youth, and restoration professionals to improve habitat at highly-visited coastal access sites, while also promoting a culture of attachment to place to foster coastal stewardship. In this project, students at underserved schools in the Santa Cruz area would participate in Groundswell’s five-step science-based restoration curriculum, consisting of: lessons on the biodiversity of coastal flora and fauna, native seed harvesting and plant propagation, restoration planting, making scientific illustrations, and monitoring the habitat restoration outcomes.

The targeted students would be in grades 3-5 or in a high school Regional Occupational Program. Schools have greenhouses on their campuses for growing the native plants. Community volunteers would work with agencies and land managers to prepare the planting areas ahead of time by removing invasive plants at coastal access points in Santa Cruz. Those access points would be at Natural Bridges State Beach, Lighthouse Field, and Seabright Beach. Visitors to these spots would also be educated about the program through student paintings on wood of native flora and fauna which would serve as interpretive signs. There would also be participants explaining the project to visitors during the restoration and monitoring work days.

(16) \$50,000 FOR INTERNATIONAL DOCUMENTARY ASSOCIATION

Project Title: Coastal Trail Videos Phase 3
Project Location: San Francisco Bay Area (and wider audience)
Project Timeline: March 2017 – December 2017
Total Project Budget: \$50,000
Estimated number of people served by the project: thousands

In 2015, the media production company, Rigler Creative, received funding from the State Coastal Conservancy to produce a series of video vignettes highlighting segments of the California Coastal Trail from San Diego County northward through Cambria. In 2016, Rigler Creative, working through its nonprofit fiscal sponsor, the International Documentary Association, received a WHALE TAIL[®] grant to create eight new videos continuing to highlight segments of the California Coastal Trail in Monterey, Santa Cruz, and San Mateo counties.

This new request would continue the filmmakers’ journey northward to produce 6-9 new video shorts in San Francisco, Marin, and Sonoma Counties. The highlighted segments would include such locations as Lands End and Ocean Beach in San Francisco, Point Reyes, Sea Ranch, and the Kortum Trail on the Sonoma Coast. As they tell the stories of the different locations, these shows would raise awareness about the Coastal Trail and encourage people to explore it.

Each piece would be 4-6 minutes long and feature interviews with Coastal Trail experts, local officials, residents, and trail users; archival photos and footage where appropriate; the stories of the coastal areas surrounding the trail; historical significance for the Coastal Act and the Coastal Commission; and local public access opportunities and attractions. The completed videos would

be added to the three dozen others already posted on the website of public television station KCET and would also be broadly shared through social media and other forms of outreach.

(17) \$35,075 FOR NOYO CENTER FOR MARINE SCIENCE

Project Title: Whale Interpretive Exhibit Development

Project Location: Fort Bragg

Project Timeline: May 2017 – April 2018

Total Project Budget: \$104,800

Estimated number of people served by the project: 200 + 60,000 visitors annually

The Noyo Center for Marine Science has a newly leased facility in downtown Fort Bragg called the "Marine Center," where an exhibit will open in the summer of 2017 displaying the articulated skeleton of a 26-foot orca whale. This orca had washed up on shore entangled in crab pot line. Public workshops (being funded outside of this grant) will involve community members being led by experts working to put this skeleton together.

To accompany that display, the Noyo Center is requesting funding to support three other educational exhibit components. The first exhibit would tell the story of this orca, how it died and washed up on shore, and how the community worked to assemble its skeleton. The second would be on the issue of marine debris and how to prevent it. And the third would be an interactive underwater acoustics display demonstrating the sounds of different marine mammals. At least five student interns working on high school senior projects would help staff design, produce, and present the exhibit. The Noyo Center would also work with an organization called Flockworks to teach children about marine mammals and to create a community mural depicting a living orca and marine debris to place behind the exhibit. Exhibit materials would be produced in English and Spanish and include information on how the public can help with local beach cleanups.

(18) \$38,170 FOR TOLOWA DUNES STEWARDS/FRIENDS OF THE DUNES

Project Title: Developing Youth, Tribal and Community Leaders

Project Location: Del Norte County

Project Timeline: March 2017 – March 2018

Total Project Budget: \$82,825

Estimated number of people served by the project: 600

Tolowa Dunes Stewards (a program of Friends of the Dunes) is requesting funds to continue its restoration and education work at Tolowa Dunes State Park and the Lake Earl Wildlife Area. TDS restores coastal dunes and wetlands for the benefit of native plants and wildlife, especially by removing invasive European beach grass. The group also provides education about coastal ecology and fosters environmental stewardship among its program participants.

During this grant period, TDS would be expanding the area of habitat being restored; encouraging more youth and families to participate in its events (such as those to benefit the threatened Oregon Silverspot Butterfly); hiring additional program staff to increase its organizational capacity; and leading restoration programs in the field for youth and adult members of partner organizations including Sierra Service Project, Redwood Parks Conservancy, Youth Training Academy, the Tolowa language class at the Del Norte School District, and the Tolowa Dee-Ni' Nation (Smith River Band of Tolowa Indians). In addition, TDS would work with Building Healthy Communities/California Endowment on youth training and internship development.

(19) \$23,227 FOR TURTLE ISLAND RESTORATION NETWORK

Project Title: Creating Certified California Naturalists
Project Location: San Francisco Bay Area
Project Timeline: May 2017 – February 2018
Total Project Budget: \$60,614
Estimated number of people served: 260

Turtle Island Restoration Network (TIRN) is one of the organizations that trains people to become Certified California Naturalists as part of the UC California Naturalists program. The training uses a science curriculum, hands-on learning, and citizen science. Trained naturalists then go on to lead outdoor programs. In an effort to increase access, understanding, and protection of the California coast to under-represented audiences, TIRN is requesting funding to train 8-12 leaders from under-represented communities to become certified naturalists, and to lead outdoor programs for their communities. The training program would assist participants in adapting programming to better align with their communities interests and cultural needs.

TIRN would reach out to potential participants through connections with partner organizations including Latino Outdoors, Outdoor Afro, and Bay Area Wilderness Training in order to target residents from lower-income Bay Area communities for leadership development. In addition to the intensive naturalist training, TIRN would also work with the new leaders to plan and create a fall coastal celebration, education, and stewardship event in West Marin, including providing transportation, for 250 students and/or members of the public from their communities.

(20) \$30,775 FOR VENTANA WILDLIFE SOCIETY

Project Title: Big Sur Coastal Stewardship and Outreach
Project Location: Big Sur & San Simeon
Project Timeline: April 2017 – March 2018
Total Project Budget: \$30,855
Estimated number of people served: 64 youth + 64 adult volunteers + 10,400 visitors

Ventana Wildlife Society is a partner in the California Condor Restoration Program. One threat to the survival of this highly endangered bird is the ingestion of microtrash by chicks, which occurs when tiny bits of plastic, bottle caps, cigarette butts, or other tiny items get fed to them by their parents, who mistake these items for natural sources of calcium (sea shells and bone chips).

VWS is requesting funding to support its biologists leading stewardship and outreach activities for community members to help the condors. During nesting season, VWS would host six microtrash cleanup events near Big Sur and six near San Simeon, in locations scavenged by condors. Along with the biologists' own litter collection, the goal would be to pick up 40 pounds of microtrash total. (One pound is equivalent to 750 soda tabs or 2,667 cigarette filters.) VWS would also produce a brochure about the issue and the biologists would share them with an estimated 10,400 tourists in the Big Sur area who show interest in the condors. Additionally, VWS would offers six one-day field trips to the Big Sur coast and the Discovery Center at Andrew Molera State Park for 64 underserved youth, focusing on coastal stewardship. Depending on the age group, activities could include water quality testing, kelp pile investigation, coastal erosion studies, and more. During the grant period, VWS would also investigate how the CCC's Adopt-A-Beach program can be incorporated into its youth programs. Finally, VWS would provide at least 30 presentations for groups of all ages to share information about efforts to reintroduce wild condors along the Big Sur coast and what people can do to help.

(21) \$11,980 FOR AQUARIUM OF THE PACIFIC

Project Title: “Resilient LB: Connecting Communities to Climate Resilience”
Project Location: Long Beach
Project Timeline: March 2017 – March 2018
Total Project Budget: \$11,980
Estimated number of people served by the project: 8,000-10,000

In 2015, the City of Long Beach committed to becoming a model climate-resilient city by combating and adapting to climate change. The Aquarium of the Pacific was designated as a primary outreach partner in this effort to help connect the diverse and underserved populations of Long Beach with climate change resources and possible solutions. In this role, the Aquarium is requesting funding to develop and pilot-test demonstrations, hands-on activities, and materials to foster conversations about building climate resiliency during the Aquarium’s regularly scheduled District Nights, when each of Long Beach’s city council members invites their local constituencies to the Aquarium after hours at no cost.

These face-to-face conversations would foster climate resiliency awareness among Long Beach residents by communicating the causes and risks of climate change, and prompting discussions of opportunities to adapt and plan for it. Aquarium staff would receive special training beforehand on climate change science as well as best recommended approaches to discussing this complex topic. This project would be documented as a model of community engagement, and once refined, the activities and materials would be used for further outreach at other venues such as farmers markets or block parties.

(22) \$25,000 FOR CENTRAL COAST SALMON ENHANCEMENT

Project Title: Dig! Pismo Clams
Project Location: San Luis Obispo County
Project Timeline: June 2017 – April 2018
Total Project Budget: \$73,635
Estimated number of people served by the project: 125

The Pismo clam, once well-known and thriving in California, currently has historically low population levels and scientists are not sure why. Central Coast Salmon Enhancement (CCSE) has developed citizen science, education, and outreach components for a research project on this topic by marine science faculty at Cal Poly San Luis Obispo.

The overall goal of this proposed project is to use the issue of the Pismo clam as a tool to inspire environmental stewardship. There would be two parts to the project. The first would be a school-based environmental education program at high schools in the underserved city of Santa Maria. The students there would have four in-class sessions and two field trips and learn about Pismo clams, the ocean, watersheds, and the students’ connection with the natural world, with special attention given to climate change and ocean acidification, as the clams serve as a real-life example of the effects of climate change on organisms with calcium carbonate shells. The project’s second component would be a citizen monitoring program in San Luis Obispo County conducted by volunteers trained to gather data on the location, size, and number of Pismo clams surveyed. The data would be sent to Cal Poly San Luis Obispo for analysis.

(23) \$48,692 FOR UNIVERSITY OF WASHINGTON

Project Title: Follow the Water
Project Location: Inland Northern California
Project Timeline: March 2017 – May 2018
Total Project Budget: \$48,692
Estimated number of people served by the project: 30 teachers/4,500 students

A joint project between University of Washington’s Friday Harbor Labs and Stanford’s Hopkins Marine Station would produce a middle school curriculum drawing connections between inland waters and ocean health, with a focus on the issue of climate change. The two universities have already been working together on the I2SEA project, which teaches high school students about ocean acidification and its biological impacts. It includes a detailed, scientifically-based carbon footprint calculator for high school students. Students calculate their carbon footprint and upload it to an international map, used by students around the world.

This new project would modify the carbon footprint calculator so it could be appropriate for middle school students. The calculator would become part of a new middle school curriculum on climate change and ocean acidification that makes the connection between inland California waters and ocean health. Topics would include climate science, ocean warming, agricultural and chemical inputs into waterways, benefits of reducing these types of pollution, and personal lifestyle changes through reduced carbon emissions. Materials would be translated into Spanish. With help from staff of California Project WET (Water Education for Teachers), a three-day teacher training would be provided to 30 teachers from inland communities along the Sacramento-San Joaquin River Delta watershed. The teachers would receive follow-up support and further professional development during the school year, and they would commit to using the new curriculum in their classrooms and sharing it with their colleagues.

(24) \$30,000 FOR BAY.ORG

Project Title: Adopt the East Side: Shoreline Cleanups for San Francisco
Project Location: San Francisco
Project Timeline: March 2017 – October 2018
Total Project Budget: \$37,057
Estimated number of people served by the project: 900

In 2015 Aquarium of the Bay received a WHALE TAIL® grant for the “Adopt the East Side” cleanup program in San Francisco. The organization led cleanup events and community workshops and recruited volunteers from the highly underserved and environmentally impacted community of Bayview Hunters Point. The Aquarium is a division of the umbrella organization bay.org. In this new project, bay.org is proposing to transfer the focus of continued beach cleanup efforts to the EcoCenter at Heron’s Head Park (another division of bay.org), which is located on the east side of the city and has strong connections to Bayview Hunters Point.

Bay.org is proposing to continue shoreline cleanups for 600 community volunteers at Heron’s Head Park and collaborate with partners facilitating cleanups at other east side locations. Bay.org is also proposing to add school education to this program by recruiting K-12 teachers in Bayview Hunters Point to involve 300 students in cleanups at the park, in-school lessons by EcoCenter naturalists, and a schoolyard trash census. Environmental education classes at Heron’s Head Park would differ by grade level and would include: “Eco Heroes” and “Solar Solutions” for grades K-2; maintaining Earth’s water balance for grades 1-3; native plants and

wetland wildlife for grades 3-5; protecting plankton, restoring oysters, and the wetland ecosystem for grades 6-8; and climate change and water sustainability for grades 9-12.

(25) \$24,000 FOR HUMBOLDT REDWOODS INTERPRETIVE ASSOCIATION

Project Title: Usal Beach Environmental Restoration Education Program
Project Location: Northern Mendocino County
Project Timeline: March 2017 – December 2017
Total Project Budget: \$124,342
Estimated number of people served by the project: 370

Humboldt Redwoods Interpretive Association (HRIA) has been mobilizing volunteers to help remove trash and conduct trail maintenance at Usal Beach and Campground in Sinkyone Wilderness State Park. The area has been subjected to unauthorized and unpermitted group gatherings and illegal camping that result in habitat destruction, erosion, and excessive amounts of human waste and litter. The North Coast Redwood District of California State Parks is working to stop these activities and restore the safety and environmental health of Usal Beach and Usal Creek. HRIA is supporting this effort by promoting the long-term stewardship of the area with education, outreach, and a citizen volunteer workforce.

This grant would fund HRIA to organize and lead volunteer events to reverse the environmental degradation of the Usal Beach area and to share information about their activities with surrounding communities. The volunteers would remove litter and invasive plants, improve sanitation, and repair trails and campsites. HRIA would also send educators to discuss impacts of human behavior on the environment at schools in the northern Mendocino towns that use Usal Beach the most including Leggett and Laytonville. Lastly, HRIA would provide capacity-building training to its core group of volunteers so some of them could be project leaders in the Adopt-A-Beach program and support long-term stewardship by the community.

(26) \$6,928 FOR NORTHCOAST ENVIRONMENTAL CENTER

Project Title: “Take Action” Events
Project Location: Humboldt County
Project Timeline: April 2017 – April 2018
Total Project Budget: \$6,928
Estimated number of people served by the project: 2,000

Northcoast Environmental Center (NEC) is the Adopt-A-Beach and Coastal Cleanup Day coordinator for Humboldt County. NEC also coordinates the “Adopt-A-Block” program for volunteers who pick up cigarette litter in the streets in Arcata to prevent them from entering the creeks flowing to Humboldt Bay and the ocean. Funding from the Coastal Commission would support NEC in increasing its outreach efforts to recruit more volunteers for these three programs, thereby increasing participation and making a bigger impact on the environment.

For the Humboldt County Adopt-A-Beach program, NEC staff would develop and distribute educational materials aimed at increasing volunteer efforts. NEC staff would also offer presentations and hands-on workshops to interested groups. For the Adopt-A-Block program, NEC would work to triple the number of volunteers in the program and increase education around cigarette butt litter, with the goal of creating a model that could be adopted by other towns in the watershed that neighbor Arcata. And for Coastal Cleanup Day, NEC would work to

increase the number of volunteers as well as the number of sites to be cleaned on beaches and coastal waterways.

(27) \$10,000 FOR ORANGE COUNTY COASTKEEPER

Project Title: Trash-Free OC Jamboree
Project Location: Huntington Beach, Newport Beach, Dana Point
Project Timeline: March 2017 – October 2017
Total Project Budget: \$20,000
Estimated number of people served by the project: 10,000

Orange County Coastkeeper (OCCK) coordinates Coastal Cleanup Day in Orange County. This grant would support increased recruitment efforts to boost volunteer participation in 2017, and it would also support adding an extra event after the cleanup at Huntington State Beach. At this event, there would be five to six different stations aimed at promoting environmental literacy and lifestyle changes to reduce waste in the local waterways (as well as food trucks and prizes furnished by other providers). The five stations would feature hands-on, carnival-style activities that would focus on: the impacts of marine debris; how water travels through watersheds until it reaches the ocean; recycling; reducing the use of disposable items; conserving water; and preventing beach pollution from microplastics. In addition, OCCK would organize and provide support for adding marine debris education on a smaller scale at two other Coastal Cleanup Day sites in Dana Point and Newport Back Bay.

**Attachment A:
Recent Grants Awarded From Sales of the WHALE TAIL[®] License Plate**

Fiscal Year	Targeted Grants	Competitive Grants
<p>2014/2015 \$754,000 Total</p> <p>Funds avail. for targeted grants: \$368,537</p> <p>Funds avail. for competitive grants: \$385,463</p> <p>Requests received: 128 totaling \$2,898,074</p>	<p>Adopt-A-Beach School Assembly Program and Kids' Cleanup Program \$95,000</p> <p>Heal the Bay Adopt-A-Beach Program \$30,000</p> <p>I Love A Clean San Diego Adopt-A-Beach Program \$29,550</p> <p>Coastwalk California Adopt-A-Beach Program \$23,150</p> <p>Tides Center for School-Based Marine Education Program \$100,700</p> <p>Tides Center for Community-Based Wetland Restoration and Education \$47,500</p> <p>Beach Wheelchair Purchase \$2,637</p> <p>California Exposition & State Fair "Beach Buddy Adventure" \$40,000</p>	<p>Groundwork San Diego – Chollas Creek for a climate change challenge program focusing on CO₂ emissions and the health of marine resources \$10,000</p> <p>Crystal Cove Alliance for "SNAP!— Science and Nature at the Park," a variety of citizen science education programs and related public exhibits \$20,000</p> <p>ExplorOcean for underserved Orange County middle and high school students to learn about and different threats to the ocean \$20,000</p> <p>El Monte Union High School District for Arroyo High School students to learn about pollution and their local watershed along the length of the LA River \$5,640</p> <p>Lawndale High School for teens in the Marine Science Academy to conduct ocean science studies during on-the-water boat trips \$10,000</p> <p>STAR, Inc. for students from urban schools in Los Angeles to participate in environmental education lessons also featuring live rescued animals \$10,000</p> <p>Parkview Elementary School for the "Ocean Ambassadors" project for fourth-grade students in Port Hueneme to take a series of marine education field trips \$9,992</p> <p>Cabrillo High School in the Lompoc Unified School District for an expansion of the school's student-run aquarium \$25,000</p> <p>Central Coast Aquarium in Avila Beach for students to participate in the Marine Life Monitoring Program, share their data, and learn about ocean stewardship \$14,912</p> <p>Community Action Partnership of Kern for an after-school marine studies program featuring ocean science topics and prehistoric marine life fossils \$8,932</p> <p>Center for Ocean Solutions at Stanford University for an intensive ocean policy and leadership course in Monterey for graduate students \$25,000</p> <p>Live Oak School District in Santa Cruz County for 5th grade students to identify, investigate, and solve a real-life problem relating to Monterey Bay \$10,000</p> <p>O'Neill Sea Odyssey for bus transportation to attend an environmental stewardship program aboard a 65-foot catamaran and at an educational center on land \$9,800</p>

<p>2014/2015 (continued)</p>		<p>Bay.org for Aquarium of the Bay staff to lead year-round volunteer shoreline cleanups on San Francisco's east side and provide marine debris education \$30,000</p> <p>California Environmental Technology Education Network for a digital sea level rise mapping project at Oakland Technical High School \$7,561</p> <p>KIDS for the BAY/Earth Island Institute for elementary students at urban schools in Oakland and Richmond to take educational coastal field trips \$32,000</p> <p>Marin County Community Development Agency for “Youth Exploring Sea Level Rise Science,” offering a new curriculum on climate science and mapping \$28,900</p> <p>The Marine Mammal Center for training volunteers and staff on climate change science and how to interpret the information to the visiting public \$32,000</p> <p>Fort Ross Conservancy for a marine ecology program (including marine mammal census-taking) for students from Sonoma and Mendocino counties \$9,740</p> <p>City of Arcata for local artists to create educational pollution prevention murals on four storm drains in town that lead to local creeks \$9,709</p> <p>Tolowa Dunes Stewards to work with Del Norte County youth, with an emphasis on tribal youth, on habitat restoration and conservation career options \$20,000</p> <p>Lawrence Hall of Science, UC Berkeley to align the widely used "MARE" marine education curriculum with the Next Generation Science Standards \$36,277</p>
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Fiscal Year	Targeted Grants	Competitive Grants
<p>2015/2016 \$753,000 Total</p> <p>Funds avail. for targeted grants: \$321,713</p> <p>Funds avail. for competitive grants: \$431,287</p> <p>Requests received: 106 totaling \$2,654,284</p>	<p>Adopt-A-Beach School Assembly Program and Kids' Cleanup Program \$97,713</p> <p>Heal the Bay Adopt-A-Beach Program \$30,000</p> <p>I Love A Clean San Diego Adopt-A-Beach Program \$29,640</p> <p>Tides Center for School-Based Marine Education Program \$103,000</p> <p>Beach Wheelchair Purchases \$5,760</p> <p>California Exposition & State Fair "Beach Buddy Adventure" \$50,000</p> <p>California State Parks Foundation for unrolling a high school curriculum on coastal science and policy \$5,600</p>	<p>Rural Human Services for students to raise salmon and steelhead trout in Del Norte County classrooms and then release them into the wild \$9,995</p> <p>Friends of the Dunes for updating the Bay to Dunes education program, incorporating Wiyot cultural elements, and aligning it with new state standards \$9,975</p> <p>Action Network for providing the "Coastal Connections" program to underserved youth in northern Sonoma and southern Mendocino counties \$17,250</p> <p>Stewards of the Coast and Redwoods for operating educational programs out of the Sonoma Coast Mobile Marine Van \$9,527</p> <p>Sierra Streams Institute in Nevada City for a year-long environmental education program focusing on migrating salmon and the effects of climate change \$35,000</p> <p>Friends of the Napa River for taking youth from the Boys and Girls Clubs kayaking to learn about the estuary and about pollution prevention \$9,995</p> <p>Pacifica Beach Coalition for the Adopt-A-Beach program and other public programming in San Mateo County \$20,000</p> <p>Vida Verde Nature Education for providing overnight coastal environmental education programs for urban, underserved Bay Area youth \$30,000</p> <p>O'Neill Sea Odyssey for bus transportation to attend an environmental stewardship program aboard a 65-foot catamaran and at an educational center on land \$9,800</p> <p>Museum Foundation of Pacific Grove for Central Valley students to take part in the LiMPETS program collecting and sharing data on sand crabs \$25,000</p> <p>Camp Ocean Pines in Cambria for building a marine touch tank to use as a teaching tool for all student visitors \$8,700</p> <p>Santa Barbara Channelkeeper for the on-the-water Seafari Program onboard Channelkeeper's research vessel exploring life in the kelp forest \$6,500</p> <p>Santa Barbara Museum of Natural History to share climate change science and solutions through public programming at the Museum and the Sea Center \$40,708</p>

<p>2015/2016 (continued)</p>		<p>Parkview Elementary School for the “Ocean Ambassadors” project for fourth-grade students in Port Hueneme to take a series of marine education field trips \$9,992</p> <p>Algalita Marine Research and Education in Long Beach for students to assess the health of near-shore waters and launch projects to reduce plastic waste \$9,890</p> <p>Children’s Maritime Foundation for 4th-graders to study an environmental science curriculum and then sail aboard the <i>American Pride</i>, a tall ship in Long Beach \$9,500</p> <p>Palos Verdes Peninsula Land Conservancy for the Junior Naturalist Program for underserved Los Angeles area children at the White Point Nature Preserve \$9,975</p> <p>Sierra Club Foundation for leading a marine stewardship program for at-risk teens in the Inspiring Connections Outdoors (ICO) program in Los Angeles County \$6,480</p> <p>Amigos de Bolsa Chica for strengthening a citizen science program for adult volunteers and youth to analyze ocean and wetland water quality \$30,000</p> <p>Los Angeles Waterkeeper for the Native American Coastal Youth Ambassadors Program involving students at Sherman Indian High School in Riverside \$25,000</p> <p>San Elijo Lagoon Conservancy for a 3-year wetlands, watersheds, and conservation program for elementary students in Escondido \$20,000</p> <p>The Ocean Foundation for the “Ocean Connectors” program for children in National City, San Diego County, focusing on conservation of migratory ocean species \$8,000</p> <p>WiLDCOAST for Marine Protected Area (MPA) citizen science cruises in South La Jolla, for youth to contribute data to MPA monitoring projects \$20,000</p> <p>International Documentary Association to produce new videos about segments of the California Coastal Trail in Monterey, Santa Cruz, and San Mateo counties \$50,000</p>
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Fiscal Year	Targeted Grants	Competitive Grants
2016/2017 \$868,000 Total	Adopt-A-Beach School Assembly Program and Kids' Cleanup Program \$107,875	<i>To be selected at February 2017 Coastal Commission meeting</i>
Funds avail. for targeted grants: \$349,850	Heal the Bay Adopt-A-Beach Program \$30,000 I Love A Clean San Diego Adopt-A-Beach Program \$28,660	
Funds avail. for competitive grants: \$488,150	Tides Center for School-Based Marine Education Program \$106,000 Tides Center for Community-Based Wetland Restoration and Education \$20,000	
Funds in temporary reserve: \$30,000	Beach Wheelchair Purchases \$17,315	
Requests received: 118 totaling \$3,395,514	California Exposition & State Fair "Beach Buddy Adventure" \$40,000	

Attachment B:
Competitive WHALE TAIL[®] Grant Proposals 2016/2017
(Recommended projects are highlighted)

<u>Organization Name</u>	<u>Project Title</u>	<u>City</u>	<u>Requested</u>
Agua Hedionda Lagoon Foundation	Public Trail Education	Carlsbad	\$12,000
Alameda Community Sailing Center	Underserved Youth Scholarship Program Expansion	Alameda	\$12,000
Algalita Marine Research and Education	Trash Trackers	Long Beach	\$12,000
All One Ocean/Earth Island Institute	Bay Area School and Beach Cleanup Program	Mill Valley	\$12,000
Aquarium of the Pacific	Connecting Communities to Climate Resilience	Long Beach	\$11,980
bay.org/EcoCenter at Heron's Head Park	Adopt the East Side: Shoreline Cleanups for San Francisco	San Francisco	\$30,000
Bolsa Chica Conservancy	Community Action Restoration and Education (CARE)	Huntington Beach	\$25,000
Boy Scouts of America, Orange County Council	Journey to the Ocean	Santa Ana	\$38,750
Boys & Girls Clubs of Venice	Fast and Fun Ocean Literacy	Venice	\$23,203
Bureau of Land Management - Ukiah Field Office	Education and Interpretation on the Coast	Ukiah	\$45,938
California Marine Sanctuary Foundation	Bringing the Wonders of Our Coast to Our Fingertips	Monterey	\$44,000
California Native Plant Society	Univ. Collaboration on Central Coast Rare Plant Communities	Sacramento	\$11,886
California State Parks - Oceano Dunes District	Coastal Trash Awareness	Pismo Beach	\$11,500
Central Coast Salmon Enhancement	Dig! Pismo Clams	Arroyo Grande	\$49,980
City of Newport Beach	Mobilizing Citizen Science Beach Erosion Monitoring	Newport Beach	\$14,875
Climate Science Alliance/California Wildlife Foundation	Climate Kids - South Coast	Oakland	\$44,750
Coastal Watershed Council	Coastal Stewardship Neighborhood Action Networks	Santa Cruz	\$20,000
Concordia University Irvine	Marine Lab and Educational Outreach Program	Irvine	\$11,963
County of Marin Community Planning Agency	Expansion of Youth Exploring Sea Level Rise Science	San Rafael	\$50,000
Crystal Cove Alliance	Environmental Assessment Program	Newport Coast	\$20,000

<u>Organization Name</u>	<u>Project Title</u>	<u>City</u>	<u>Requested</u>
Discovery Cube's Ocean Quest	Citizen Science and Field Studies	Newport Beach	\$49,810
Earth Discovery Institute	EDI Explorers: Kids, Coast, and Climate	El Cajon	\$49,602
Earth Team	Marine Debris Afterschool Internships at Antioch High	Richmond	\$12,752
Elkhorn Slough Foundation	Celebrating Our Slough	Moss Landing	\$24,004
Environmental Traveling Companions	Youth LEAD Program: Watershed Exploration	San Francisco	\$23,000
Galt Joint Union Elementary School District	Watershed Partners	Galt	\$12,000
Greater Farallones Association	Meaningful Coastal Learning Experiences	San Francisco	\$11,915
Groundswell Coastal Ecology/Social & Environ. Entrepreneurs	Healthy Coastal Communities	Davenport	\$47,546
Humboldt Redwoods Interpretive Association	Usal Beach Environmental Restoration Education Program	Weott	\$48,131
I Love A Clean San Diego	Adopt-A-Beach Expansion: Adopt-A-Park	San Diego	\$14,300
Inside the Outdoors Foundation	From Science to Stewardship	Costa Mesa	\$27,250
International Documentary Association	Coastal Trail Videos Phase 3	Los Angeles	\$50,000
Lake Canyon Elementary School	Beach Clean Up Trip	Galt	\$8,000
Living Coast Discovery Center	Team Up to Clean Up	Chula Vista	\$41,372
Los Angeles Conservation Corps	Ocean Stewards Summer Learning Sessions	Redondo Beach	\$39,993
Los Angeles Maritime Institute	"Make Waves" Exploration & Literacy Program	San Pedro	\$50,000
Los Angeles Waterkeeper	Native America Youth Coastal Ambassadors Program	Santa Monica	\$50,000
Los Angelitos de Encinitas	Changing Tides	Leucadia	\$47,295
Los Arboles Middle School	Whale Tale, Student Tale	Marina	\$12,000
Marine Science Institute	Discover Our Bay and Coast	Redwood City	\$50,000
Metwest High School	Classes to Teach Climate Change and Solutions	Oakland	\$11,500
National Marine Sanctuary Foundation	Ocean Guardian Dive Club	Silver Spring	\$47,272
National School District	SWPPP Internship: Changing Lives, Cleaning Water	National City	\$50,000
Natural History Museum of Los Angeles County Foundation	Coastal Biodiversity: Student Involvement & Citizen Science	Los Angeles	\$48,090

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Northcoast Environmental Center	CLEAN! Coastal Learning, Education and Action Now!	Arcata	\$49,508
Noyo Center for Marine Science	Whale Interpretive Exhibit Development	Fort Bragg	\$35,075
Ocean Defenders Alliance	Marine Debris Removal	Huntington Beach	\$25,000
Ocean Discovery Institute	Ocean Science Explorers	San Diego	\$25,000
Ocean Institute	Go WILD at the Ocean Institute	Dana Point	\$47,376
Oceanic Society	Whales and Whale Entanglement	Ross	\$49,046
O'Neill Sea Odyssey	Transportation for Ocean Stewards	Santa Cruz	\$11,800
Orange County Coastkeeper	Coastal Cleanup Day: Trash-Free OC Jamboree	Costa Mesa	\$12,000
Outdoor Outreach	YES San Diego	San Diego	\$12,000
Pacific Environmental Education Center	Update and Re-Supply of Curriculum Materials	Fort Bragg	\$1,000
Pacific Marine Mammal Center	Pinniped Pollution Project	Laguna Beach	\$25,288
Pacifica Beach Coalition/Pacifica's Environmental Family	Make a Splash by Ending Trash	Pacifica	\$43,031
Pacoima Beautiful	Pacoima to the Sea Stencil Project	Pacoima	\$35,000
Palos Verdes Peninsula Land Conservancy	Junior Naturalist Program	Rolling Hills Estates	\$12,000
Parkview Elementary School	Ocean Ambassadors	Port Hueneme	\$11,896
Partners of Parks/El Dorado Nature Center	Aquatics Education Program	Long Beach	\$5,500
Point Reyes National Seashore Association	Science at the Seashore	Point Reyes Station	\$50,000
Pretend City Children's Museum	Under the Sea - Ocean Stewards	Irvine	\$49,211
Real Good Fish/Social and Environmental Entrepreneurs	Bay2Tray – Fishermen in the Classroom	Moss Landing	\$34,000
Redwood Community Action Agency	SWPPP'n UP: Reaches to Beaches	Eureka	\$13,570
Redwood Parks Conservancy	Stream Ecology & Art Field Trips at Headwaters Forest Reserve	Arcata	\$12,205
Reef Check Foundation	Student Ocean Scientist Program	Marina del Rey	\$49,997
Richardson Bay Audubon Center & Sanctuary	Audubon Adventure Summer Camp for All	Tiburon	\$29,365
Rio School District	Rio Vista Middle School Sixth Grade Field Trip Series	Oxnard	\$11,771

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San Diego Audubon Society	Sharing Our Shores: Mission Bay	San Diego	\$8,689
San Diego Coastkeeper	Training Tomorrow's Water and Climate Leaders	San Diego	\$12,650
San Diego County Regional Airport Authority	Outdoor Classroom & Coastal Education Project	San Diego	\$18,087
San Francisco International Ocean Film Festival	Student Education Program Expansion	San Francisco	\$12,000
San Gabriel Elementary School	Environmental Science Camp for Grade 5	Atascadero	\$16,310
San Joaquin River Stewardship Program	Merced River Salmon	Fresno	\$47,599
Santa Barbara Botanic Garden	Watershed Discovery Station	Santa Barbara	\$29,828
Santa Barbara Channelkeeper	Seafari Program	Santa Barbara	\$6,000
Santa Barbara Museum of Natural History	Our Changing Planet - Diving Deep Into Climate Literacy	Santa Barbara	\$50,000
Save Our Shores	Marine Education and Outreach	Santa Cruz	\$30,000
Save the Waves Coalition	Endangered Waves Mobile App	Davenport	\$24,992
SDSU Research Foundation/California Geographic Alliance	Project-Based Geo-STEM Learning	San Diego	\$44,563
Seven Tepees Youth Program	Project WAVES	San Francisco	\$10,000
Shark Stewards/Earth Island Institute	Creating Golden Gate MPA Ambassadors	Berkeley	\$28,165
Solana Center for Environmental Innovation	How Our Litter Becomes Marine Debris	Encinitas	\$37,487
Sonoma County Regional Parks Foundation	Youth Exploring the Sonoma Coast (YES-Coast)	Santa Rosa	\$48,856
South East High School	Water: Past, Present, & Future	South Gate	\$34,569
STAR Inc.	Get Your Green On	Culver City	\$10,000
Strategic Energy Innovations	Discovering Watersheds and Public Water Systems	San Rafael	\$49,814
The Marine Mammal Center	Youth Crew Climate and Ocean Communication Initiative	Sausalito	\$43,775
The Ocean Foundation/Ocean Conservation Research Program	Randall Museum Ocean Sounds Grotto	San Francisco	\$41,185
The Watershed Project	Wild! Oysters	Richmond	\$35,000
Tolowa Dunes Stewards/Friends of the Dunes	Developing Youth, Tribal and Community Leaders	Crescent City	\$39,825
Treasure Island Sailing Center	Set Sail Learn	San Francisco	\$30,000

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Trinidad Coastal Land Trust	Trinidad School Seabird Monitoring	Trinidad	\$12,000
Turtle Island Restoration Network	Creating Certified California Naturalists	Forest Knolls	\$33,006
UC Santa Barbara, Cheadle Center	Kids in Nature Explore North Campus Open Space	Santa Barbara	\$49,985
University Corporation at Monterey Bay	Microplastics, Monterey Bay, Middle Schoolers and Mentors	Seaside	\$48,436
University of San Diego	Large Whale Stewardship Using Unmanned Aerial Vehicles	Sacramento	\$25,000
University of Washington	Follow the Water	Pacific Grove	\$48,692
Ventana Wildlife Society	Big Sur Coastal Stewardship and Outreach	Salinas	\$30,855
via senti	Heirs to Our Oceans	La Honda	\$50,000
Watsonville Wetlands Watch	Wetland Stewards After School Program	Freedom	\$20,000
WILDCOAST	Youth MPA Floating Laboratory Project	Imperial Beach	\$40,000
TOTAL REQUESTED			\$3,045,664