

CALIFORNIA COASTAL COMMISSION

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W6c

DATE: January 30, 2015

TO: Commissioners and Interested Parties

FROM: Charles Lester, 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 2014/2015 Using Funds from Sales of the WHALE TAIL[®] Coastal Protection License Plate.** The Executive Director recommends that that the Commission **approve** the following proposed competitive grants for Fiscal Year 2014/2015.

SUMMARY OF STAFF RECOMMENDATIONS

Approve the following 22 competitive grants totaling \$385,463 and serving the following areas:

A) Youth programs—\$202,293

- (1) Cabrillo High School (Lompoc, Santa Barbara County)
- (2) Central Coast Aquarium (Avila Beach, San Luis Obispo County)
- (3) Children's Nature Institute (Los Angeles)
- (4) Community Action Partnership of Kern (Bakersfield)
- (5) El Monte Union High School District (El Monte, Los Angeles County)
- (6) ExplorOcean (Orange County)
- (7) Fort Ross Conservancy (Sonoma and Mendocino counties)
- (8) KIDS for the BAY/Earth Island Institute (Oakland & Richmond)
- (9) Lawndale High School (Los Angeles County)
- (10) Lawrence Hall of Science, UC Berkeley (statewide audience)
- (11) Live Oak School District (Santa Cruz)
- (12) O'Neill Sea Odyssey (Santa Cruz and surrounding counties)

- (13) Parkview Elementary School (Port Hueneme, Ventura County)
- B) Programs for the general public/adults—\$74,709
 - (14) City of Arcata (Arcata, Humboldt County)
 - (15) Crystal Cove Alliance (Orange County)
 - (16) Stanford University/Center for Ocean Solutions (Monterey Bay region)
 - (17) Tolowa Dunes Stewards/Friends of the Dunes (Del Norte County)
- C) Climate education programs (youth/general public)—\$78,461
 - (18) California Environmental Technology Education Network (Oakland)
 - (19) County of Marin
 - (20) Groundwork San Diego-Chollas Creek
 - (21) The Marine Mammal Center (Marin County)
- D) Adopt-A-Beach programs (general public) —\$30,000
 - (22) Bay Institute Aquarium Foundation (San Francisco)

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 Executive Director to enter into the appropriate contracts for 22 projects.

II. INTRODUCTION

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 \$14 is deposited in the California Beach and Coastal Enhancement Account (CBCEA). Annual renewal fees deposit approximately \$19.79 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, 2014, a total of 226,805 license plates have been sold. WHALE TAIL[®] License Plate sales and renewal fees (plus miscellaneous other small fees) have

contributed \$23.7 million to the CBCEA, and \$58 million to the ELPF. (The additional fees that are charged for personalized plates go to the ELPF.)

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.)

Grantmaking Budget

The final approved budget for FY 2014/2015 includes \$754,000 in funds from the CBCEA for local assistance grants. At its September 2014 meeting, the Commission voted to allocate the \$754,000 as follows: seven targeted grants totaling \$369,900, a temporary reserve of \$39,000 to be awarded later in the fiscal year, and the remaining \$345,100 for the competitive grantmaking program. For a listing of the seven 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.)

Since September 2014, there was a change to one of the targeted grants: the Commission approved up to \$4,000 for a beach wheelchair at San Onofre State Beach, but the chair ended up costing only \$2,637. This left a balance of \$1,363, which the staff has added to the competitive grants budget. In addition, the \$39,000 temporary reserve has not been needed for any identified project. Therefore, this report describes the staff’s recommendations for expenditure of \$385,463, the new balance available for competitive grants.

The Competitive Grants Program for FY 2014/2015

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. (This is the second year of a two-year pilot for this subcategory to help meet climate change education goals in the Commission’s strategic plan.)

The staff began publicizing the grant program in September 2014. The deadline for submittal of grant applications was November 1, 2014. 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 \$10,000.

Competitive Grants Applicant Pool

The staff received 114 grant applications requesting a combined total of \$2,529,537 which equals over 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, 64% of the projects focus entirely on underserved communities. Another 27% contain some elements that focus on an underserved audience. For example, some youth programs entirely target a low-income population, such as Parkview Elementary School, which serves children of farmworkers. On the other hand, some of the

programs for the public include specific outreach to underserved groups but also serve the general population; the County of Marin, for instance, is targeting Title I schools but is also serving Marin County planners and scientists. The remaining 9% 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 the most submitted proposals. However, in selecting projects, the staff strives to ensure that the less populous rural and inland portions of the state also are represented.

III. Staff Recommendations for Competitive WHALE TAIL® Grant Awards FY 2014/15

The staff recommends that the Commission fund the 22 programs listed below (\$385,463 total).

(1) \$25,000 FOR CABRILLO HIGH SCHOOL

Project Title: Aquarium Mini-Expansion
Project Location: Lompoc, Santa Barbara County
Project Timeline: March 2015 – June 2015
Total Project Budget: \$112,753
Estimated number of people served by the project: 6,000+ annually

For over 25 years, Cabrillo High School has operated a student-staffed aquarium. It has become very popular, with tours filling the facility and tour calendar to capacity. All fifth grade students in the Lompoc Unified School District visit the aquarium as part of their curriculum. The District pays for fourth-grade students to visit too, and the aquarium also hosts monthly open houses and summer camps. The high school students who work there learn about animal care and ocean issues, design and conduct their own research projects, and create the curriculum for visiting students.

In order to increase the programs offered as well as accommodate more people, the aquarium is expanding. A shark exhibit and tropical reef exhibit have recently been installed. New curriculum is being developed to teach visitors about ocean stewardship and marine conservation including climate change, ocean acidification, and watersheds. Funding from the Coastal Commission would support the construction of wet labs for student projects. Tanks could easily be set up and connected to a salt water supply for students and class projects featuring hands-on exploration of different ocean science topics.

(2) \$14,912 FOR CENTRAL COAST AQUARIUM

Project Title: Marine Life Monitoring Program
Project Location: Avila Beach
Project Timeline: April 2015 – September 2016
Total Project Budget: \$14,912
Estimated number of people served by the project: 400

The Central Coast Aquarium (CCA) in Avila Beach offers marine education programs for students of all ages, including a Floating Lab on San Luis Obispo Bay. Recently, the CCA began recording data on the sea life collected during the Floating Lab, turning the program into a marine sampling and monitoring activity.

The CCA is requesting funding to expand the Marine Life Monitoring Program to other nearby habitats as well, including not just the open bay but also the rocky intertidal zone and sandy beaches. A WHALE TAIL® grant would support the cost of sampling equipment, developing new curricula, and creating taxonomic keys for fish, marine plants, and invertebrates. The grant would also pay for students in grades 4-12 at underserved schools to participate in the program. The students would primarily come from San Luis Obispo and Santa Barbara counties, but may also come from other neighboring areas and the Central Valley. They would learn about field sampling, water quality, marine life, and ocean stewardship. The collected data would be shared with other research organizations and the database for the LiMPETS program (Long-term Monitoring Program and Experiential Training for Students). Once developed, the Aquarium plans to continue offering this program in the future.

(3) \$10,000 FOR CHILDREN’S NATURE INSTITUTE

Project Title: Nature Discovery Program with Watershed Lessons
Project Location: Los Angeles
Project Timeline: March 2015 – December 2015
Total Project Budget: \$341,203
Estimated number of people served by the project: 300

Children’s Nature Institute (CNI) offers the Nature Discovery Program free of charge to young children at the most disadvantaged schools and child care programs in Los Angeles. Serving children from pre-K to third grade, the program teaches children in an age-appropriate manner about marine ecology, coastal wetlands, and local flora and fauna. Through training educators and caregivers, CNI helps them integrate nature-based learning on a daily basis at their schools and child care centers.

The Nature Discovery Program consists of three parts. First, CNI’s WonderMobile visits the children, bringing a traveling collection of animals and natural artifacts. Secondly, the children go with their teachers and parents on a local, marine-focused field trip to a natural area such as Malibu Lagoon or the Ballona Wetlands. They take a guided nature hike to experience tidepools, beaches, and lagoons, a new experience for many of the children. They also engage in activities providing watershed stewardship lessons and the impact of pollutants. In the third component, the children go on an urban nature hunt and explore elements of nature right at their schools. The goals of the Nature Discovery Program are to get children excited about exploring nature at an early age; model respectful behavior toward nature; and model low-cost, age-appropriate science and nature activities for teachers and parents.

(4) \$8,932 FOR COMMUNITY ACTION PARTNERSHIP OF KERN

Project Title: After-School Marine Studies Program

Project Location: Bakersfield

Project Timeline: March 2015 – May 2016

Total Project Budget: \$19,392

Estimated number of people served by the project: 135

The nonprofit Community Action Partnership of Kern (CAPK) operates a variety of programs serving at-risk families in Kern County, including after-school programs at two centers, Friendship House Community Center and Shafter Youth Center. The proposed project would build on the children’s enthusiasm during a summer camp for learning about and viewing fossilized marine animals from a former inland arm of the Pacific Ocean. CAPK is requesting funding to implement a more thorough marine studies program at these two centers for underserved, land-locked youth.

The marine studies program would begin with the implementation of free science lesson plans and worksheets available online from the Long Beach Aquarium of the Pacific, covering topics such as marine animals, ocean ecosystems, and the impact of ocean currents on the Earth’s climate. In a second component, the Buena Vista Museum of Natural History & Science would bring their “Museum in a Box” program to the youth to share fossils and casts of bones and teeth from “Shark Tooth Hill,” a prominent marine mammal fossil location near Bakersfield in a former arm of the Pacific Ocean. In a third component, the youth would take a day-long field trip to the Aquarium of the Pacific.

(5) \$5,640 FOR EL MONTE UNION HIGH SCHOOL DISTRICT

Project Title: LA Watershed Explorers: From River to Sea

Project Location: El Monte, Los Angeles County

Project Timeline: March 2015 – May 2015

Total Project Budget: \$8,070

Estimated number of people served by the project: 140

Arroyo High School is part of the El Monte Unified School District in urban, industrial Los Angeles County. The students there are primarily Latinos and recent immigrants. The District is requesting funding to support a biology teacher at that school to develop a place-based watershed curriculum that can serve as a model for seven other high schools within the district.

In this 6-week-long project, 140 students would learn about their local watershed, tracing the Los Angeles River down to the ocean. They would learn about its headwaters and the habitat it provides; watch a film imagining what the river looked like 250 years ago; do a lab study examining the effects of pollution on brine shrimp; visit the Aquarium of the Pacific in Long Beach, including touring the "Pathways to the Pacific" watershed exhibit and doing a dissolved oxygen lab study; and research and present projects about the impact of a pollution source of their choice on their watershed, as well as possible solutions to the problem. The goals of this project are to help students learn science, show them how science applies to everyday life, and help them build a connection to their own local ecosystem.

(6) \$20,000 FOR EXPLOROCEAN

Project Title: H2O SOS: Help Heal Our Ocean -Student Operated Solutions
Project Location: Orange County
Project Timeline: April 2015 – October 2016
Total Project Budget: \$79,984
Estimated number of people served by the project: 200

Formerly the Newport Harbor Nautical Museum, ExplorOcean is now an organization operating an Ocean Literacy Center and providing ocean literacy programming. “H2O SOS” would be a new program for underserved middle and high school students from communities around Orange County such as Santa Ana and Costa Mesa. The students would start off by learning about six key ocean threats: ocean acidification, stormwater pollution, loss of habitat, overfishing, climate change, and invasive species. They would learn about those topics through hands-on activities using activity materials, online lessons, and other resources provided by ExplorOcean to their teachers.

After being exposed to all six issues, students would then select any one of them, research it further through observation and data-gathering, develop a plan to solve or raise awareness about that issue, design a campaign around it, and finally present their public awareness campaign at community events. This program would also include research excursions, stewardship activities such as community cleanups or restoration, and meeting with and interviewing experts in the field to learn about ocean-related careers and study pathways.

(7) \$9,740 FOR FORT ROSS CONSERVANCY

Project Title: Abs and Otters: Fort Ross Marine Ecology Program
Project Location: Sonoma County
Project Timeline: March 2015 – September 2016
Total Project Budget: \$27,783
Estimated number of people served by the project: 360

Fort Ross State Historic Park is a former Russian settlement on the Sonoma coast which now hosts visitors and many school children who learn about the fort’s history and the lives of the fur traders who lived there. In an effort to expand its programming to include environmental education, the Fort Ross Conservancy is starting a marine ecology program. A WHALE TAIL® grant would help support the cost of offering this program to underserved students in grades four and up from Sonoma and Mendocino counties, including youth from the Kashia Band of Pomo Indians, as well as elsewhere in the San Francisco Bay Area.

The Marine Ecology Program would last 1-2 days (with some students camping overnight close to the ocean) and would cover topics such as plants and animals that live in the area, kelp forests, natural resources and how they can become endangered through long-term exploitation (especially the otters and fur seals that used to be hunted there), threats to coastal regions, and marine mammal census-taking. The marine mammal monitoring would involve using spotting scopes to observe Stellar sea lions, harbor seals, and occasional whales or elephant seals. The collected data would be input into a database to be tracked over time.

(8) \$32,000 FOR KIDS FOR THE BAY/EARTH ISLAND INSTITUTE

Project Title: Watershed Action – Coastal Connections Program
Project Location: Oakland & Richmond
Project Timeline: April 2015 – April 2017
Total Project Budget: \$199,456
Estimated number of people served by the project: 600

For a decade, KIDS for the BAY has been working with urban, underserved elementary schools in Alameda and Contra Costa counties and providing its Watershed Action Project, which is an environmental education program focusing on local creeks, the San Francisco Bay, and pollution prevention. This grant would support adding a “Coastal Connections” component to the program so participating classes could take coastal field trips, learn from a new lesson about the importance of the ocean and coastal environment, and engage in two actions projects related to plastic debris and ocean acidification.

For the field trips, the classes would visit a place either on the ocean or on San Francisco Bay. They would conduct field studies and keep a field journal. For the new lesson, the students would learn about ocean animals and plants and participate in hands-on activities including seaweed and shell studies and human impacts on the ocean. And for the two ocean-focused action projects (in addition to the action projects about watershed health already occurring), the children would learn about plastic marine debris and implement school-wide cleanups or zero-waste lunch days, and they would learn about carbon dioxide in the ocean and study their families’ energy use at home. These two action projects would be available for classes to select in future years even after the conclusion of this grant.

(9) \$10,000 FOR LAWDALE HIGH SCHOOL

Project Title: Marine Biology Exposure Project
Project Location: Lawndale and nearby communities
Project Timeline: April 2015 – March 2016
Total Project Budget: \$14,548
Estimated number of people served by the project: 145 H.S. students + 200 M.S. students

Lawndale High School has a Marine Science Academy, a state-funded career academy offering classes in marine science, oceanography, and environmental science. A WHALE TAIL® grant would provide support for the academy students to take marine-related field trips as part of their studies. Through these trips, the students would learn more scientific techniques, experience boats on the ocean first-hand, and witness marine professionals in the field.

Each grade would take part in a different learning opportunity. Ninth-grade students would attend the Long Beach Marine Institute's "Sea Creature Safari" and study marine life captured through a trawl from their boat. Tenth-graders would take a boat from Santa Barbara to Anacapa Island for activities there and along the way. Students in 11th grade would take part in the Ocean Institute's "Advanced Floating Laboratory," and seniors would also take a boat trip with the Ocean Institute, studying human impacts on the coastal environment. Once all the trips are completed, the students would prepare and deliver lessons on what they learned for nearby middle school students in Lawndale, Lennox, and Hawthorne.

(10) \$36,277 FOR LAWRENCE HALL OF SCIENCE, UC BERKELEY

Project Title: EQUIP-ing Educators for NGSS (using MARE)
Project Location: Statewide
Project Timeline: March 2015 – February 2016
Total Project Budget: \$36,960
Estimated number of people served by the project: thousands

The Lawrence Hall of Science at UC Berkeley offers a whole-school ocean sciences program called MARE (Marine Activities, Resources & Education). Hundreds of schools in California have adopted the program, in which each class in grades K-8 focuses on different ocean habitats and take advantage of curriculum materials and resource kits, teacher training, field trips, and family activities. MARE is a popular and well-respected ocean immersion program.

Recently, the state of California adopted the Next Generation Science Standards (NGSS) as a requirement for its students. Currently California schools are in transition as teachers learn how to implement these standards, yet curricula that would meet the requirements are not readily available. To address this need and stay relevant, the MARE program is requesting funds to realign its curriculum with the NGSS for elementary students (using a rubric known as EQUIP). With a high-quality, aligned curriculum available, teachers all over California could either continue the MARE program, or else start adopting it to meet the new requirements, making ocean science more widely taught than before. Specifically, the MARE program staff would rewrite 3-5 units for grades K-1 (new units for grades 2-5 are already complete); offer it free of charge on their website; add new hands-on activities for grades 2-5; share their process with other educators to help them realign their own ocean science activities; provide trainings for educators in implementing the new curriculum; and throughout, highlight how the Essential Principles of Ocean Literacy align with the Next Generation Science Standards.

(11) \$10,000 FOR LIVE OAK SCHOOL DISTRICT

Project Title: STEAM to the Rescue
Project Location: Santa Cruz
Project Timeline: June 2015 – May 2016
Total Project Budget: \$11,484
Estimated number of people served by the project: 180

The Live Oak School District in Santa Cruz is requesting funding for fifth-grade classes at its three elementary schools to engage in a project-based learning activity in which they would identify, investigate, and solve a real-life problem pertaining to Monterey Bay. Two-thirds of the students within the school district are Latino, nearly one-half of them are learning English, and nearly three-quarters of them are eligible for free or reduced lunches.

To prepare for this project, the fifth-grade teachers would all participate in professional development workshops on project-based learning and how to use it for lessons and activities related to marine science. Then all their students would participate in a “launch party” featuring marine ecology and conservation experts to spark their interest in their local marine ecosystem. Next, the students would identify a question about the health of Monterey Bay, conduct research, and develop a solution to an identified problem. They would also experience real-world field research through schoolyard and beach cleanups, water quality analysis in partnership with the Surfrider Foundation, and an educational boat trip with O’Neill Sea Odyssey. They would also

create art out of recycled materials illustrating the different principles of ocean literacy, and then display them at a district-wide art show that may also travel to different community venues. At the end, the newly-created lessons would be available to implement again in future years.

(12) \$9,800 FOR O’NEILL SEA ODYSSEY

Project Title: Transportation for Ocean Stewards
Project Location: Santa Cruz
Project Timeline: March 2015 – December 2015
Total Project Budget: \$72,800
Estimated number of people served by the project: 450

O’Neill Sea Odyssey offers an award-winning, hands-on, ocean-going science and environmental stewardship program aboard a 65-foot catamaran for students in grades 4-6. The program includes three onboard learning stations: navigation, including compasses and triangulation; marine ecology, including the kelp forest, marine mammals, and human impacts on Monterey Bay; and marine biology, specifically examining and learning about plankton. These stations are complemented by three other stations at an education center on land: navigation, including reading and plotting navigational charts; marine ecology, covering the water cycle, watersheds, and ocean pollution stemming from land-based activities; and marine biology, where the plankton samples collected on the boat are examined further using microscopes. Teachers are provided with additional lessons they can implement at school before and after the trip.

O’Neill Sea Odyssey’s program is offered free of charge, but participating classes “earn” their trip by first completing an approved community service project. Examples of projects include incubating steelhead eggs, cleaning and restoring wetlands, or restoring sand dunes. One hundred percent of this grant would be allocated to providing transportation to Santa Cruz Harbor to participate in the program for schools that do not have the funding to pay for it.

(13) \$9,992 FOR PARKVIEW ELEMENTARY SCHOOL

Project Title: Ocean Ambassadors
Project Location: Port Hueneme
Project Timeline: June 2015 – May 2016
Total Project Budget: \$9,992
Estimated number of people served by the project: 144

Students at Parkview Elementary School mostly come from families where the parents speak Spanish and work in the agricultural industry. Many know little about the ocean and have never been on a boat. A fourth-grade teacher is seeking funding for a series of marine education activities including: visiting Anacapa Island and collecting data on life in tidepools there; testing water from the Ventura River and investigating whether Steelhead salmon could survive there; and visiting Ormond Beach wetland and learning about wetland and watershed protection.

Additionally, the students would be filmed conducting their studies, and two students from each of the four participating classes would be selected to do “digital storytelling” at the Computer-Using Educators (CUE) conference in Palm Springs to share what they learned. Through these experiences students would also learn about education beyond high school and career opportunities in science, marine ecology, and conservation.

(14) \$9,709 FOR CITY OF ARCATA

Project Title: Stormwater Mural Project
Project Location: Arcata
Project Timeline: March 2015 – June 2015
Total Project Budget: \$22,321
Estimated number of people served by the project: thousands

The City of Arcata, in an alternative to standard storm drain stenciling, would like to invite local artists to create murals at four storm drains in town. The murals would turn the drains into works of art to educate passers-by about stormwater pollution and watershed ecology. The four drains have already been identified as they are in high-traffic areas and are especially prone to pollution; each design would reflect the type of pollution most problematic at that site, such as cigarette butts near a row of bars. Through a competition, three local artists would be selected to paint three of the sites. The fourth mural would be designed by youth in the City's Watershed Warriors program, which would teach up to 25 young people about local marine ecology through lessons and field trips.

In addition to the paintings themselves, the project would also include a stormwater art gallery show as part of the local monthly art walk, in which the selected designs would be announced; an unveiling event also featuring booths with local environmental organizations; and an educational brochure for the public to use for a self-guided walking tour of the four murals, including which creek each drain flows into, the species that depend on a clean creek, and where that creek enters Humboldt Bay.

(15) \$20,000 FOR CRYSTAL COVE ALLIANCE

Project Title: SNAP! Science and Nature at the Park 2015
Project Location: Newport Coast
Project Timeline: March 2015 – February 2016
Total Project Budget: \$223,796
Estimated number of people served: 20,000

SNAP! (Science and Nature at the Park) at Crystal Cove State Park provides environmental education programming to thousands of visitors a year. The program is growing and Crystal Cove Alliance (CCA), the park's nonprofit partner, is requesting funding to continue its expansion and add higher-level scientific skills to the program's content. Specifically, CCA would: develop, test, and offer 3-5 new citizen science school programs incorporating STEM (science, technology, engineering, and math) education and environmental literacy, both in a new environmental education study loop at Moro Canyon and at the park's marine research facility; increase the number of classes (including classes from underserved schools) participating in CCA's Marine Protected Area citizen science boat cruises; plan and implement three trainings to help teachers deliver the newly developed programs; and stage three public exhibits for the park's visitors.

Crystal Cove Alliance is also interested in building the relevance of these programs. To that end, CCA would share the collected citizen science data with land managers and scientists, and the organization would use SNAP! as a model for other State Parks. For example, CCA is working on bringing one of its programs to the Anza Borrego desert. CCA also shares its educational work with other Marine Protected Areas.

(16) \$25,000 FOR STANFORD UNIVERSITY/CENTER FOR OCEAN SOLUTIONS

Project Title: MARINE's 2015 Ocean Policy Course
Project Location: Monterey Bay region
Project Timeline: April 2015 – October 2015
Total Project Budget: \$51,788
Estimated number of people served by the project: 25

The Center for Ocean Solutions is a collaboration between Stanford University, Hopkins Marine Station, the Monterey Bay Aquarium Research Institute (MBARI), and the Monterey Bay Aquarium. The Center's MARINE Ocean Policy Course is an intensive two-week course for graduate students to expose them to the legal and policy dimensions of ocean and coastal issues. The course prepares them to be ocean and coastal policy leaders.

The 2015 Ocean Policy Course would actively recruit a broad, diverse group of graduate students reflecting the geographic and demographic diversity of California from institutions such as UC Santa Cruz, Hopkins Marine Station, CSU Monterey Bay, and others. The course would cover challenges to ocean and coastal health (such as ocean acidification and fisheries management) and how scientists and other professionals can address those challenges within policy-making contexts. The course would also emphasize key professional skills for emerging conservation leaders. Leaders in science and policy would attend as guest experts; this would include at least one representative from the Coastal Commission who would share information about career opportunities in coastal zone management. At the conclusion of the course, Stanford University would create a shareable curriculum package that could be adopted by other institutions.

(17) \$20,000 FOR TOLOWA DUNES STEWARDS/FRIENDS OF THE DUNES

Project Title: Developing Youth Leaders for Tolowa Coast Stewardship
Project Location: Del Norte County
Project Timeline: April 2015 – March 2016
Total Project Budget: \$60,000
Estimated number of people served by the project: 1,000

Tolowa Dunes Stewards (using Friends of the Dunes as a fiscal sponsor) is seeking funds to continue its restoration and education work at Tolowa Dunes State Park and the Lake Earl Wildlife Area. TDS works to restore coastal dunes for the benefit of native plants and wildlife, especially by removing invasive European beach grass.

TDS is seeking funds to work with local youth, including tribal youth, to help them appreciate and care for the Tolowa Coast; learn about conservation career opportunities; and educate them and their families about learning and stewardship opportunities. TDS would work with the Smith River Rancheria to develop new field experiences for members of the Tolowa tribe including outings focused on research, observation, restoration, and ceremony. TDS would also develop classroom lessons for local schools, including those serving tribal youth, covering biodiversity and invasive and native plants; TDS would work with the Rancheria's language department to incorporate Tolowa names and traditional uses for the different plants. The lessons would be followed by hands-on field restoration work for youth and their families. TDS would also be providing environmental and natural resources training programs for youth in

local groups being funded by the California Endowment to create a natural resources instruction pathway in Del Norte County.

(18) \$7,561 FOR CALIFORNIA ENVIRONMENTAL TECHNOLOGY EDUCATION NETWORK

Project Title: Digital Mapping of Projected Inundation in Alameda/Oakland
Project Location: Oakland
Project Timeline: May 2015 – June 2016
Total Project Budget: \$7,561
Estimated number of people served by the project: 100 students + wider community

The California Environmental Technology Education Network (CETEN) is a nonprofit organization that has been using technology and adult professionals to augment student education. In this proposed project, CETEN would work with AP Environmental Science students at Oakland Technical High School to teach them geospatial technologies such as ArcGIS. With these skills, the teens would create products illustrating the impacts of sea level rise in the Alameda and Oakland areas, linking existing maps with photos and information about local structures expected to be flooded with rising sea levels. Their work would be shared with interested organizations including local government agencies, and the students would also make in-person presentations. Recent GIS data layers from NOAA have shown that sea level rise's greatest urban impact in California would be in the Alameda/Oakland region.

In addition to learning new, real-world technology skills, the participating high school students would also study coastal processes, climate change, sea level rise, and the science behind urban structures being dissolved in sea water.

(19) \$28,900 FOR COUNTY OF MARIN

Project Title: Youth Exploring Sea Level Rise Science
Project Location: Marin County
Project Timeline: April 2015 – June 2016
Total Project Budget: \$48,500
Estimated number of people served by the project: 150-200 students + 25 researchers and planners

“Youth Exploring Sea Level Rise Science” would be a collaborative project between the Marin County Community Development Agency, the King Tides Project, Shore Up Marin, and local high schools. The King Tides project (a campaign creating public awareness about coastal climate change) would create a curriculum on climate science, sea level rise, mapping, and data collection. The students participating would come from low-lying, ethnically and economically diverse high schools and would document areas where they live that are vulnerable to flooding during “king tides,” the highest tides of the year that give a preview of possible average water levels in the future. Their data and observations would be collected and shared, used to verify projections from a coastal sea level rise mapping tool, and help county planners visualize and communicate the risks of local flooding in the future.

In a second phase, this project would refine the program, develop a toolkit, and share it widely to be used by other high schools and other areas so that more students could become real-life partners in helping their own communities adapt to sea level rise.

(20) \$10,000 FOR GROUNDWORK SAN DIEGO

Project Title: Chollas Creek Climate Change Challenge
Project Location: San Diego
Project Timeline: May 2015 – April 2016
Total Project Budget: \$33,970
Estimated number of people served by the project: 250

Groundwork San Diego-Chollas Creek is a nonprofit organization managing the Chollas Creek watershed in San Diego. The organization operates the “EarthLab,” an outdoor center providing science, environmental, and stewardship education for San Diego students. Groundwork San Diego is proposing to expand its program content to include climate change education and the relationship between carbon dioxide emissions and the health of marine resources. Focused on the endangered Eastern Pacific Green Sea Turtle colony in San Diego Bay, the Climate Change Challenge would show students the importance of healthy native habitats and reduced energy consumption as strategies to control rising sea temperatures and ocean acidification. They would also learn about different careers that can help address climate change. The participating students in grades 3-8 would come from Encanto, a very low-income, urban area comprised mostly of Latino and African-American residents.

The program would begin with workshops for all participating teachers and the development of lesson plans and field trip activity guides. Students would receive an in-school lesson and launch an energy reduction challenge in their homes. At the EarthLab, the students would see climate change exhibits, play climate change interactive games, and take a native plant to grow at home. The students would also see green sea turtles in person at Chula Vista’s Living Coast Discovery Center and explore San Diego Bay. Finally, the students would present their home energy audits, and an event for families would have community leaders congratulating them on participating in the Climate Change Challenge.

(21) \$32,000 FOR THE MARINE MAMMAL CENTER

Project Title: Climate Change Education Initiative
Project Location: Marin County
Project Timeline: March 2015 – April 2016
Total Project Budget: \$34,768
Estimated number of people served by the project: 15,000

Located at the Marin Headlands, The Marine Mammal Center (TMMC) not only rescues, nurses, and researches sea lions and other animals, the organization also provides public education to 100,000 people per year about marine mammals and environmental conservation. Last year, TMMC piloted a small number of climate change trainings for some of its education volunteers after one of its staff members was selected as a Community Climate Change Fellow with the North American Association for Environmental Education and developed this concept. A grant from the Coastal Commission would expand on the small pilot to create a series of trainings and use climate science to engage visitors about the effects of climate change and how they can reduce their carbon footprints. TMMC would recruit 100 new volunteers and train a total of 300 volunteers and staff on climate change science and how to interpret the information to the visiting public and encourage increased environmental stewardship. TMMC would incorporate climate change education into

its key education programs including guided tours, classroom programs, handouts for the public, website content, and informal education to visitors. In addition, working with the California College of the Arts, TMMC would develop an animated video about reducing one's carbon footprint and the effects of climate change on marine animals. As TMMC is a member of the National Network of Climate Change and Ocean Interpretation (and other associations), staff would share strategies and content from the new program with other similar organizations.

(22) \$30,000 FOR BAY INSTITUTE AQUARIUM FOUNDATION

Project Title: Adopt the East Side: Shoreline Cleanups for San Francisco

Project Location: San Francisco

Project Timeline: March 2015 – December 2016

Total Project Budget: \$38,022

Estimated number of people served by the project: 1,100

Staff at the Aquarium of the Bay have a history of organizing beach cleanups at San Francisco's Aquatic Park for California Coastal Cleanup Day and other events. In 2014, they coordinated multiple cleanup sites on the east side of San Francisco, which accumulate large amounts of debris. Recently, visitors at Aquarium of the Bay, when asked to pick an environmental activity for the Aquarium to engage in, strongly voted for shoreline cleanups.

In response to this public support, Aquarium of the Bay is proposing to lead year-round volunteer cleanups on other days in addition to Coastal Cleanup Day, such as Earth Day and World Oceans Day. Working with local partner organizations, they would recruit community members to volunteer at the cleanups as well as share with them a marine debris public education program. The volunteers would learn about the long-lasting impact of litter as well as solutions to the problem of marine debris. Volunteers would be invited from all over the Bay Area, including the nearby highly underserved community of Bayview Hunters Point.

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

Fiscal Year	Targeted Grants	Competitive Grants
<p>2012/2013 \$798,000 Total</p> <p>Funds avail. for targeted grants: \$369,540</p> <p>Funds avail. for competitive grants: \$428,460</p> <p>Requests received: 128 totaling \$2,591,762</p>	<p>Foundation of California State University Monterey Bay for Camp SEA Lab \$30,000</p> <p>Adopt-A-Beach School Assembly Program and Kids' Cleanup Program \$95,600</p> <p>Heal the Bay Adopt-A-Beach Program \$30,000</p> <p>I Love A Clean San Diego Adopt-A-Beach Program \$27,000</p> <p>Tides Center for School-Based Marine Education Program \$88,000</p> <p>Tides Center for Community-Based Wetland Restoration and Education \$80,000</p> <p>Beach Wheelchair Purchases \$18,940</p>	<p>Audubon California for students in San Diego and Los Angeles to learn about shorebirds and design signs on the beach warning not to disturb nesting sites \$33,310</p> <p>Berkshire Elementary School for sixth-graders in Bakersfield to attend Camp KEEP, a four-day outdoor science school in San Luis Obispo County \$8,800</p> <p>Fresno Chaffee Zoo for a cohort of teens to interact with zoo visitors and promote marine conservation \$6,400</p> <p>Friends of the Dunes to provide coastal education activities in Manila, Humboldt County for Montessori students, who will then help educate the public \$14,162</p> <p>Mayfair Middle School to add hands-on labs and other educational activities to a marine science elective in Lakewood, Los Angeles County \$5,230</p> <p>Monterey Bay Aquarium for the Splash Zone/Head Start Discovery program for underserved pre-schoolers in Santa Cruz and Monterey counties \$10,000</p> <p>Mountains Recreation and Conservation Authority for developing an oceans unit for the Junior Rangers Program for urban youth from the Los Angeles area \$9,993</p> <p>Ohlone Elementary School in Watsonville for a new wetlands unit for third-grade classes \$7,585</p> <p>Point Reyes National Seashore Association for seashore science field education programs for underserved Bay Area youth \$30,000</p> <p>San Diego Junior Lifeguard Foundation for a summer program teaching ocean science to youth ages 10-14 \$22,500</p> <p>Smith River Alliance for the Tolowa Dunes Stewards program to restore dune habitat in Del Norte Co. and teach Native American and other youth participants \$29,756</p> <p>YMCA Point Bonita for "My Home, My Community, My World," a science education program for underserved schools in Marin City \$9,900</p> <p>California Native Plant Society for the "California Coastal Rare Plant Treasure Hunt" in the southern half of the state \$25,000</p>

<p>2012/2013 (continued)</p>		<p>Concerned Resource and Environmental Workers (“the CREW”) to employ young adults to restore habitat along the lower Ventura River \$9,800</p> <p>Reef Check Foundation to train volunteer divers to collect data on underwater species off the California coast, especially in Marine Protected Areas \$25,000</p> <p>SPAWN, a project of Turtle Island Restoration Network to develop a Coast & Ocean module for the California Naturalist Program \$9,880</p> <p>Seymour Marine Discovery Center in Santa Cruz to increase its capacity to serve Spanish-speaking audiences \$9,370</p> <p>Southwest Wetlands Interpretive Association for formalizing the training for its long-term volunteer docents at the Tijuana Estuary \$25,000</p> <p>UC Santa Cruz Arboretum for engaging community members in restoring habitat for the threatened red-legged frog \$10,500</p> <p>University of Redlands for developing a mobile app and website for people to record where they spot marine mammals while learning more about them \$33,272</p> <p>Coastwalk California for expanding the Adopt-A-Beach program in Sonoma County and adding educational components \$9,779</p> <p>Save Our Shores for launching the Beachkeepers program in Santa Cruz County and installing trash bag holders so beach visitors can clean up on their own \$25,610</p> <p>The Watershed Project in Richmond for strengthening the Contra Costa County Adopt-A-Beach program and incorporating on-the-water kayak cleanups \$17,313</p> <p>Navarro-by-the-Sea Center for Riparian & Estuarine Research for installing interpretive panels at the Navarro River mouth in Mendocino County \$40,300</p>
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Fiscal Year	Targeted Grants	Competitive Grants
<p>2013/2014 \$816,000 Total</p> <p>Funds avail. for targeted grants: \$423,874</p> <p>Funds avail. for competitive grants: \$392,126</p> <p>Requests received: 105 totaling \$2,665,389</p>	<p>Foundation of California State University Monterey Bay for Camp SEA Lab \$15,000</p> <p>Adopt-A-Beach School Assembly Program and Kids' Cleanup Program \$100,314</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>Tides Center for School-Based Marine Education Program \$99,000</p> <p>Tides Center for Community-Based Wetland Restoration and Education \$106,000</p> <p>Earth Alert for the "Heroes of the Coast" project \$9,360</p> <p>California State Parks Foundation for a high school curriculum on coastal science and policy \$34,650</p>	<p>Ocean Discovery Institute for sixth-graders from City Heights, San Diego to learn about carbon dioxide emissions, climate change, and renewable resources \$22,407</p> <p>Youth Outdoors! for teens from southern San Diego County to visit the Tijuana Estuary to learn about the area and restore habitat \$5,500</p> <p>San Elijo Lagoon Conservancy for a 2-year wetlands and watersheds program for elementary students in Escondido and Vista \$18,272</p> <p>ExplorOcean for underserved students in the KidWorks program in Santa Ana to learn about the principles of ocean literacy and attend camp in Newport Beach \$35,000</p> <p>Gray Whale Foundation for whale observation research trips and lessons about gray whales and the marine environment for southern Orange County youth \$20,000</p> <p>Beach Ecology Coalition for community volunteers to measure the ecological health of urban sandy beaches in southern California \$9,915</p> <p>Camino Nuevo Charter Academy, in the Westlake neighborhood of Los Angeles, for seventh-grade students to visit and research Santa Catalina Island \$6,000</p> <p>City2 Sea for teens at four underserved high schools in the Los Angeles area to learn about ocean acidification and carbon footprints on boating expeditions \$9,995</p> <p>Cachuma Resource Conservation District for watershed stewardship education for 5th-graders in Guadalupe, Santa Barbara County \$9,964</p> <p>UC Santa Barbara, Marine Science Institute for water quality education and community restoration of the Ormond Beach wetlands in Ventura County \$28,000</p> <p>Return of the Natives for families in Salinas to learn how litter gets washed down to Monterey Bay, clean a local creek, and install native plants on sand dunes \$20,500</p> <p>Edventure More for elementary students at underserved Oakland public schools to learn about watersheds and their own connection with the ocean \$9,750</p> <p>Small Schools for Equity for biology class field trips and field supplies for high school students at San Francisco's June Jordan School for Equity \$9,200</p>

<p>2013/2014 (continued)</p>		<p>California Exposition & State Fair for a large exhibition at the 2014 State Fair about the coast and ocean and ocean stewardship \$40,000</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 \$9,573</p> <p>Noyo Center for Science and Education in Fort Bragg for marine mammal education and science activities featuring the reconstructed skeleton of a blue whale \$35,000</p> <p>Mattole Restoration Council for a partnership of five organizations to provide coastal and watershed education in the remote Mattole Valley \$25,510</p> <p>Northcoast Environmental Center for leading a number of public education programs in Humboldt County focused on clean beaches and watersheds \$30,320</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 \$9,997</p> <p>Clean Water Fund for educating the public about how most marine debris is disposable food and beverage containers and the benefits of reusable items \$17,850</p> <p>Ocean Communicators Alliance for creating handbooks and providing training to help docents teach the public about California Marine Protected Areas \$9,708</p> <p>The Ocean Foundation for the “Squids-4-Kids” program providing frozen giant squid for dissections (and related educational content) throughout California \$9,665</p>
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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><i>To be selected at February 2015 Coastal Commission meeting</i></p>

Attachment B: Competitive WHALE TAIL[®] Grant Proposals 2014/2015

<u>Organization Name</u>	<u>Project Title</u>	<u>City</u>	<u>Requested Amount</u>
5 Gyres Institute	Educational Webinar	Santa Monica	\$16,500
Action Network	Coastal Connections Across Ages and Cultures	Gualala	\$50,000
Agua Hedionda Lagoon Foundation	Environmental Stewardship Academy	Carlsbad	\$18,367
Algalita Marine Research and Education	Debris Science Investigation Kit Distribution	Long Beach	\$9,643
Amigos de Bolsa Chica	Revamping Wetland Tours and Education Program	Huntington Beach	\$38,600
Associated Students of San Diego State University	Watersports Camp Marine Sciences Program	San Diego	\$9,000
Back to Natives Restoration	Connecting Community to Conservation	Irvine	\$11,250
Bay Institute Aquarium Foundation	Adopt the East Side: Shoreline Cleanups for San Francisco	San Francisco	\$31,992
Beach Ecology Coalition	All Ashore: Monitoring Beach Ecosystems in California	Malibu	\$7,400
Bolsa Chica Conservancy	Bolsa Chica Waterways Without Waste	Huntington Beach	\$32,500
Bureau of Land Management	"Look Who's Rockin' on the Orange Coast"	Palm Springs	\$5,660
Cabrillo High School	Aquarium Mini-Expansion	Lompoc	\$25,152
Cabrillo National Monument Foundation	Life in the Rocky Intertidal Zone	San Diego	\$20,700
California Environmental Technology Educ. Network	Digital Mapping of Projected Inundation in Alameda/Oakland	Carmichael	\$7,561
California Greenworks, Inc.	Water Links!	Los Angeles	\$25,000
California Marine Sanctuary Foundation	Celebrating California's Underwater Parks	Monterey	\$17,074
California State University Channel Islands	The Before and After Program	Camarillo	\$10,062
California Trout, Inc.	Water Talks	San Francisco	\$15,382
Central Coast Aquarium	Marine Life Monitoring Program	Avila Beach	\$14,912
Central Coast State Parks Association	Underserved School Group Transportation	Morro Bay	\$10,000
Channel Islands Cetacean Research Unit	Be Blue	Santa Barbara	\$50,000
Channel Islands Park Foundation	Islands Inform Sea Change	Ventura	\$6,785

<u>Organization Name</u>	<u>Project Title</u>	<u>City</u>	<u>Requested Amount</u>
Children's Nature Institute	Nature Discovery Program with Watershed Lessons	Los Angeles	\$10,000
City of Arcata Recreation Division	The Stormwater Mural Project	Arcata	\$9,709
City of Newport Beach	Sea Life Outreach and Educational Programming	Newport Beach	\$9,450
Clean Water Fund	Incorporating ReThink Disposable in Community Outreach	Oakland	\$35,000
Community Action Partnership of Kern	After-School Marine Studies Program	Bakersfield	\$8,932
Community Science Workshop Network	Mobile Whale Program	Watsonville	\$20,000
Compton Unified School District	Greening Our Watershed	Compton	\$50,000
County of Marin	Youth Exploring Sea Level Rise Science	San Rafael	\$28,900
Crystal Cove Alliance	SNAP! Science and Nature at the Park 2015	Newport Coast	\$40,000
Dana Point Aquatic Foundation	REACH Program - Sail Into Science	San Clemente	\$5,000
De Portola Middle School	Marine Science Club	San Diego	\$10,000
EarthTeam	Zero Litter Beaches	Berkeley	\$19,845
El Monte Union High School District	LA Watershed Explorers: From River to Sea	El Monte	\$5,640
Elementary Institute of Science	Water Sustainability Community Action Project	San Diego	\$21,625
Elkhorn Slough Foundation	Celebrating Our Slough	Moss Landing	\$25,100
Environmental Center of San Luis Obispo	Central Coast Students Beach Adoption Program	San Luis Obispo	\$37,900
ExplorOcean	H2O SOS: Help Heal Our Ocean -Student Operated Solutions	Newport Beach	\$45,380
Farallones Marine Sanctuary Association	Expanding and Building a Stronger LiMPETS Community	San Francisco	\$15,000
Fort Ross Conservancy	Abs and Otters: Fort Ross Marine Ecology Program	Jenner	\$28,131
Friends of the Dunes	Humboldt Coastal Stewards	Arcata	\$18,903
Friends of the Elephant Seal	Buses to Visit the Piedras Blancas Elephant Seals	Cambria	\$9,900
Friends of the Sea Otter	Be Sea Otter Savvy	Carmel	\$48,816
GREENSPACE - The Cambria Land Trust	Moonstone Beach Coastal Bluff Restoration	Cambria	\$30,540
Groundwork San Diego-Chollas Creek	Chollas Creek Climate Change Challenge	San Diego	\$24,370

<u>Organization Name</u>	<u>Project Title</u>	<u>City</u>	<u>Requested Amount</u>
Hubbs-SeaWorld Research Institute	Seabass in the Classroom	San Diego	\$25,000
Humboldt State University	Marine Science Education Workshop on Climate Change	Arcata	\$14,799
Katella High School	Adopt A Channel Research Project	Anaheim	\$5,000
KIDS for the BAY/Earth Island Institute	Watershed Action - Coastal Connections Program	Berkeley	\$44,000
King Harbor Youth Foundation	REACH Program - Sailing & Science	Redondo Beach	\$3,518
Laguna Canyon Foundation	South Coast Wilderness Education Program	Laguna Beach	\$7,500
Lawndale High School	Marine Biology Exposure Project	Lawndale	\$10,408
Lawrence Hall of Science, UC Berkeley	EQuIP-ing Educators for NGSS (using MARE)	Berkeley	\$36,960
Live Oak School District	STEAM to the Rescue	Santa Cruz	\$11,484
Living Coast Discovery Center	Science Without Boundaries	Chula Vista	\$28,000
Los Angeles Unified School District	Climate Change Lesson Plans	Los Angeles	\$50,000
Los Angeles Waterkeeper	Marine Protected Areas Watch Program	Santa Monica	\$25,000
MEarth	From the River to the Sea	Carmel	\$22,300
Mendocino Land Trust	Big River Stewards Docent Program	Mendocino	\$6,585
Mid Klamath Watershed Council	The Mammoth Klamath: Connecting the Mountains to the Sea	Orleans	\$11,347
Monte Vista Elementary School PTA	Ocean Science Education	Monterey	\$1,500
Montebello Police Athletic Activities League	Marine & Coastal Environment Education Project	Montebello	\$8,400
Monterey Bay Aquarium Foundation	Teen Conservation Leaders	Monterey	\$35,000
Mountain and Sea Educational Adventures	Channel Watch Project	San Pedro	\$27,650
Newport Banning Land Trust	ReCreate Collaboration	Newport Beach	\$39,600
Newport Bay Conservancy	Upper Newport Bay High School Watershed Program	Newport Beach	\$9,920
North American Marine Environment Protection	Marine Environ. Learning Guide & Multimedia Curriculum	Southport	\$46,165
Northcoast Environmental Center	Clean Beaches, Healthy Communities	Arcata	\$49,584
Ocean Connectors/The Ocean Foundation	Ocean Connectors Program	San Diego	\$10,000

<u>Organization Name</u>	<u>Project Title</u>	<u>City</u>	<u>Requested Amount</u>
Ocean Conservation Research/The Ocean Foundation	"The Sounds of Our Seas" Interactive Kiosk	Lagunitas	\$18,768
Ocean Institute	Earth's Changing Climate Science Initiative	Dana Point	\$50,000
O'Neill Sea Odyssey	Transportation for Ocean Stewards	Santa Cruz	\$9,800
Orange County Coastkeeper	Seize the Coast Day	Costa Mesa	\$22,500
Outdoor Outreach	Youth Outdoors!	San Diego	\$30,000
Pacific Grove Museum of Natural History	Central Coast Ocean Stewards	Pacific Grove	\$25,000
Pacifica Beach Coalition	Bee the Change: Bee A Coastal Earth Hero	Pacifica	\$49,785
Palos Verdes Peninsula Land Conservancy	Third Grade Naturalist Program	Rolling Hills	\$9,975
Parkview Elementary School	Ocean Ambassadors	Port Hueneme	\$9,992
Peace Terrace Academy	Pilot Outdoor Project - Marine Biology & Discovery Ecotour	Fremont	\$2,580
Pediatric Adolescent Diabetes Research & Education	2015 Catalina Island Adventure Camp	Orange	\$9,750
Richardson Bay Audubon Center & Sanctuary	Richardson Bay Waterbird Festival & Education Program	Tiburon	\$10,370
Roundhouse Aquarium	Marine Science and Environmental Education Outreach	Manhattan Beach	\$8,000
Rozalia Project	Night Out: for the Ocean	Granville	\$8,000
Sailing Education Adventures	REACH Program - Education through Sailing	Sausalito	\$20,644
San Marcos High School	Let's Get REAL	San Marcos	\$10,966
San Mateo County Harbor District	Activity Book & Marine Data Collection Outreach	Half Moon Bay	\$50,000
Santa Barbara Channelkeeper	Seafari Program: On-the-Water Experiential Education	Santa Barbara	\$8,000
Santa Barbara Museum of Natural History	Kelp Forest: A Video Environment	Santa Barbara	\$28,176
Save Our Shores	Volleyball Beachkeepers Program	Santa Cruz	\$29,862
Save The Bay	Restoration Education Program	Oakland	\$25,000
Science Friday Initiative	California Coastal & Marine Science Digital Videos and Lessons	New York	\$34,278
Seal Conservancy of San Diego	Docent Program	La Jolla	\$43,602
Shark Stewards	Shark Watch	Berkeley	\$13,250

<u>Organization Name</u>	<u>Project Title</u>	<u>City</u>	<u>Requested Amount</u>
Sherwood Valley Rancheria	Shelbalne Traditional Ecological Knowledge Project	Willits	\$23,210
Slide Ranch	Coastal Stewardship and Tidepool Education	Muir Beach	\$30,000
Smith River Alliance	North Coast Interagency Visitor Center	Crescent City	\$9,855
Smith River Rancheria	Tribal Youth Sii-xuu-ta (Marine) Explorers	Smith River	\$27,491
Sonoma Ecology Center	Salmon Sleuths	Eldridge	\$9,500
Stanford University/Center for Ocean Solutions	MARINE's 2015 Ocean Policy Course	Palo Alto	\$49,784
Stanislaus County Fairgrounds	Life's A Clean Beach	Turlock	\$15,000
STAR Inc.	Get Your Green On: Animal Style	Culver City	\$9,750
Stewards of the Coast and Redwoods	Sonoma Coast Marine Education Program	Duncan Mills	\$9,980
The Escondido Creek Conservancy	Get Animated and Fight Litter	Escondido	\$9,200
The Marine Mammal Center	Climate Change Education Initiative	Sausalito	\$34,768
The Ocean Foundation	Quieting Ocean Noise	Washington	\$20,000
The Watershed Project	Waste Matters to the Ocean	Richmond	\$50,000
Tolowa Dunes Stewards/Friends of the Dunes	Developing Youth Leaders for Tolowa Coast Stewardship	Crescent City	\$33,500
Trails4All	Santa Ana River Watershed Cleanup Opportunities	Paramount	\$18,000
Turtle Island Restoration Network	The Salmon Warrior Project	Forest Knolls	\$18,784
University of California Santa Cruz Arboretum	Promoting Coastal Prairie	Santa Cruz	\$26,750
University of California, Santa Barbara	Oceans-To-Classrooms	Santa Barbara	\$49,945
WILDCOAST	San Diego County MPA Youth Stewardship & Education	Imperial Beach	\$25,000
Wiyot Tribe	Wiyot Youth Coastal & Marine Stewardship (Shou'r halouluwilh)	Loleta	\$9,321
Total Requested			\$2,529,537