



# COUNTY OF SANTA CRUZ

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## FISH AND WILDLIFE ADVISORY COMMISSION

701 OCEAN STREET, ROOM 312, SANTA CRUZ, CA 95060  
(831) 454-3154 FAX: (831) 454-3128 TDD: (831) 454-2123

### AGENDA

September 1, 2016

7:00 PM

Fifth Floor Conference Room, Room 510

1. CALL TO ORDER
2. ROLL CALL
3. GUEST INTRODUCTIONS
4. APPROVAL OF MINUTES
5. PUBLIC COMMENTS
6. PRESENTATIONS:
  - A. Chris Coburn, Resource Conservation District of Santa Cruz County – Soquel Creek Streamflow Stewardship Project (15 minutes)
  - B. Sierra Ryan, County of Santa Cruz – Recent Grant Applications for Groundwater and Streamflow Enhancement (10 minutes)
7. PRESENTATIONS AND ANNOUNCEMENTS BY COMMISSIONERS (15 minutes)
8. BUSINESS MATTERS
  - A. Public Grants Program and budget – discuss and approve Request for Proposals (10 minutes)
  - B. Discuss draft Cannabis Cultivation Ordinance letter to Board of Supervisors (5 minutes)
  - C. Grant Reports (10 minutes)
  - D. General discussion of topics for upcoming meetings (20 minutes)
9. STAFF REPORTS/ANNOUNCEMENTS
  - A. Report on local watershed projects (15 minutes)
10. CORRESPONDENCE
  - A. Grant Reports (see Item 8C)
  - B. Fish and Game Commission Notices
    - A. Notice of proposed regulatory action re: upland bird hunting
    - B. Notice of proposed 90-day extension for Dungeness crab and rock crab fishery closures.
    - C. Notice of receipt of petition to list Lassics lupine as endangered
    - D. Notice of proposed regulatory action to amend Nongame Animals General Provision
11. ADJOURNMENT

The County of Santa Cruz does not discriminate on the basis of disability, and no person shall, by reason of a disability, be denied the benefits of its services, programs, or activities. The Planning Department Conference Room is located in an accessible facility. If you are a person with a disability and require special assistance in order to participate in the meeting, please contact Kristen Kittleson at (831)454-3154 or TDD number (454-2123) at least 72 hours in advance of the meeting in order to make arrangements. Persons with disabilities may request a copy of the agenda in an alternative format. As a courtesy to those affected, please attend the meeting smoke and scent free.



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(831) 454-3154 FAX: (831) 454-3128 TDD: (831) 454-2123

Fish and Game Advisory Commission

### MINUTES

Santa Cruz County Governmental Center  
Fifth Floor  
Santa Cruz, California

August 4, 2016

1. CALL TO ORDER. The meeting was called to order at 7:00 PM
2. ROLL CALL.

Present: Commissioners Berry, Robin, Johnson, Baron, Frediani, Shikuma,  
Maridon, Freeman  
Excused: Noyes, Grant  
Absent: none

3. APPROVAL OF MINUTES. Commissioner Freeman made a motion to approve the May 5, 2016 minutes; Commissioner Maridon seconded the motion. All aye, the motion passed.
4. PUBLIC COMMENTS. Grey Hayes thanked the Commission for writing to the Board of Supervisors about language for the National Monument Designation for Coast Dairies.
5. PRESENTATIONS AND ANNOUNCEMENTS BY COMMISSIONERS. Commissioner Maridon is interested in finding out if the County has enforceable garbage dumping fines. Commissioner Freeman will send out information on AB2087 draft legislation on creating Regional Conservation Frameworks. Commissioner Berry reported that the City of Santa Cruz will be meeting with regulatory agencies to discuss an agreement on streamflows.
6. BUSINESS MATTERS
  - A. Discuss the draft Cannabis Cultivation Ordinance and recommendations to the Board. The Commission discussed multiple recommendations to include in a letter to the Board of Supervisors. Commissioner Shikuma made a motion to create a subcommittee consisting of Commissioners Freeman, Baron, Robin and Berry to put together a letter to the Board of Supervisors based on the items discussed; Commissioner Johnson seconded the motion. All aye, the motion passed. Staff will create a draft letter based on the meeting notes.
  - B. Update on commission name change. The name of the commission is now the Fish and Wildlife Advisory Commission.
  - C. Discuss Commission Budget. The Commission has \$11,000 budgeted for the Public Grants Program, but with recent settlements, there is enough money in the Propagation Fund to increase the amount to \$15,000 and still have \$14,000 in reserves. Commissioner Maridon

made a motion to increase the Public Grants Program funding to \$15,000; Commissioner Freeman seconded the motion. All aye, the motion passed.

7. STAFF REPORTS/ANNOUNCEMENTS.

A. Commission Berry reported on the State of San Lorenzo Symposium, which focused on the lower river and lagoon. The event was held at Loudon Nelson Center on May 21.

8. CORRESPONDENCE

9. ADJOURNMENT 9:12 PM.

NOTE: The next meeting is scheduled for September 1, 2016.

Submitted by K. Kittleson; Water Resources/Fish and Wildlife/2016 Agenda and Minutes



# COUNTY OF SANTA CRUZ

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## FISH AND WILDLIFE ADVISORY COMMISSION

701 OCEAN STREET, SUITE 312, SANTA CRUZ, CA 95060  
(831) 454-3154 FAX: (831) 454-3128 TDD: 411

### 2016 NOTICE OF AVAILABLE GRANT FUNDING

The County of Santa Cruz Fish and Wildlife Advisory Commission is soliciting applications for its Public Grants Program. Grants are funded by fines and settlements collected for violations of California Fish and Game laws within Santa Cruz County.

There is a total of \$ 15,000 available for this year's grants program. Awards are usually limited to \$1,000 to \$2,000 each, but larger requests will be considered.

#### FUNDING PRIORITIES:

- Benefits native fish and wildlife.
- Education programs for school age children related to fish and wildlife
- Support of California Fish and Game related law enforcement.

SELECTION CRITERIA: The highest consideration will be given to projects which:

- Provide a low cost/high benefit.
- Benefits native, local wildlife species.
- Proposals may include funding for labor costs.

#### TO APPLY:

1. Individuals, organizations and agencies can request an application form from Kristen Kittleson at [kristen.kittleson@santacruzcounty.us](mailto:kristen.kittleson@santacruzcounty.us) or (831) 454-3154.
2. Individuals should have an affiliation with a non-profit organization to receive funding.
3. Describe the project fully in 8 pages or less, including budget and any attachments. We encourage concise grant proposals, but project budget information must be included.
4. Proposals must be received by 3:00 PM Thursday, October 20, 2016 as an electronic file to Kristen Kittleson or a hardcopy to address above. Please submit the application as a WORD or compatible file so we can remove the cover sheet before posting it to the public. We prefer applications as electronic files, but hard copies are accepted.
5. Grant applications will be reviewed by the Commission at their November 3, 2016 meeting at 7:00 p.m. in the Board of Supervisors Chambers, 5<sup>th</sup> floor, 701 Ocean Street. Applicants are invited to attend and should be prepared to give a short presentation (not to exceed 5 minutes in length). Final selection is scheduled for December 1, 2016. Funding recommendations must be approved by the Board of Supervisors and will be available by March 2017.

For more information, contact Kristen Kittleson at (831) 454-3154 or email, [kristen.kittleson@santacruzcounty.us](mailto:kristen.kittleson@santacruzcounty.us). FAX (831) 454-3128.



# COUNTY OF SANTA CRUZ

## FISH AND WILDLIFE ADVISORY COMMISSION

701 OCEAN STREET, ROOM 312, SANTA CRUZ, CA 95060  
(831) 454-3154 FAX: (831) 454-3128 TDD: CALL 711

August 15, 2016

Dear Honorable Supervisors:

Thank you for the opportunity to review the draft Cannabis Cultivation Ordinance, June 14, 2016. We appreciate that several of our suggestions from our letter dated May 9, 2016 (attached) were incorporated into the draft ordinance, including the requirements for on-site water sources and to provide proof of a legal water source. We appreciate the time and energy that County staff, the supervisors and the public have contributed to crafting an ordinance that works to protect the environment, neighborhoods and economic opportunity. The Fish and Wildlife Advisory Commission reviewed the draft ordinance at a publicly noticed meeting on August 4, 2016 and have several additional recommendations.

Cannabis cultivation uses water resources from wells, streams and in some cases, bulk delivery. Stream diversions have the potential to severely impact stream flows during the late summer and early fall, when stream flows are naturally lowest and most critical for local steelhead and coho salmon populations. In addition to providing proof of valid water rights, we recommend that cultivators be required to provide proof of a valid Streambed Alteration Agreement (SAA) from the California Department of Fish and Wildlife. The SAA will address potential impacts to streamflows and ensure that the diversion itself does not impact fish or wildlife. In addition, we recommend that cultivators be required to meter stream diversions and wells and conduct water audits for use. While the bulk delivery of water has the potential to reduce impacts on late season streamflows, it could also open up unsuitable areas for cultivation. We recommend that the County further evaluate bulk water delivery in the Environmental Impact Report.

We recommend that a Natural Resource Protection Plan (NRPP) be prepared for cultivation sites. The NRPP could serve cultivators, the County Cannabis Licensing Program and state agencies that the cultivation site meets county and state rules and regulations. A workbook format with checklists that include Best Management Practices could serve to clearly communicate rules and regulations to the cultivators and provide education on ways to meet those rules and regulations to best protect water resources, water quality and natural resources. The NRPP requirements could be scaled to cultivation site size, and include sections on water resources, drainage and runoff, pesticide, herbicide and fertilizer use and storage.

We recommend that the County discourage the use of chemical fertilizers, herbicides and pesticides through education, watershed protection certification or a streamlined licensing process.

We recommend that rodenticides be entirely prohibited for outdoor, rural cultivation. There are other methods for controlling rodents that do not introduce poisonous rodenticides into the ecosystem. In rural areas, rodents that are commonly eradicated are the native San Francisco dusky-footed woodrat, which is listed as a State Species of Special Concern.

We recommend that cultivators be required to control the spread of invasive, non-native plants, rated as “High” by CAL-IPC, within 200’ of the cultivation site. The Santa Cruz County website will post Federal, State, and local resources to help landowners identify and eradicate invasive non-native plants on their properties.

We recommend that the County evaluate the impact of the entire cultivation site and not just the canopy area. That is, there is potential for vegetation clearing and other environmental impacts beyond the footprint of the plants themselves. We encourage the use of wildlife-friendly fences and recommend that the definition of fence include vegetated hedges that better allow the movement of wildlife than solid fences.

For the reasons articulated in letters submitted by Big Creek Lumber and the San Lorenzo Valley Water District, we recommend that cannabis cultivation not be allowed on TP zoned property. Timberlands provide valuable watershed functions including groundwater recharge, wildlife habitat and native plant communities.

We recommend that all exemptions given to existing legal commercial agriculture under Chapter 16 of the County Code not apply to commercial cannabis operations on properties zoned RA and TP.

We recommend making the following two language changes:

1. For setbacks described on page 19, we recommend adding language so that the sections read: Cannabis shall not be cultivated, nor shall related **infrastructure such as roads be established**, within one hundred (100) feet of a perennial stream **or in violation of SCCC sections 16.30 (riparian corridor and wetlands protection) or 16.32 (listed sensitive habitats), whichever is most restrictive.** We recommend that this language modification be applied for all water body setbacks.

2. (S) “Park” means any playground, hiking or riding trail, recreational area, beach, community center or building, historic structure or facility, **conservation land, biological mitigation area, or open space** owned, managed or controlled by any public entity or **conservation entity such as a non-profit land trust.**

Finally, we recommend that a portion of the tax revenue be used for natural resource protection related to impacts from cannabis cultivation, including remediation of abandoned problem grow sites and technical assistance for water conservation and natural resource protection. We

recommend that the County evaluate the benefits of providing funding to the Resource Conservation District of Santa Cruz County to provide technical assistance to cannabis cultivators.

Thank you for considering our recommendations.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Berry". The signature is written in a cursive style with a large, prominent "B".

Chris Berry, Chair, County of Santa Cruz Fish and Wildlife Commission

County of Santa Cruz Fish and Game Advisory Commission  
**GRANT REPORT**

***CATCHING PLANKTON***



*O'Neill Sea Odyssey instructor Marina Maze with new microscope, and some Copepods.*

Application Date: 9/21/2015

Name of organization or individual submitting the proposal: O'Neill Sea Odyssey

Contact Person – Name, address, phone and email: Dan Haifley, 2222 East Cliff Drive #222, Santa Cruz, CA 95062; (831) 465-9390; [dhaifley@oneillseaodyssey.org](mailto:dhaifley@oneillseaodyssey.org)

Fund Recipient: Name on the check and mailing address: O'Neill Sea Odyssey; 2222 East Cliff Drive #222, Santa Cruz, CA 95062

Project name: Catching Plankton.

Amount of funding requested: \$900

Project Description: O'Neill Sea Odyssey (OSO) requested funding for a new microscope on the boat and a plankton net. The plankton net replaces a well-used older one for our marine biology education station on the Team O'Neill catamaran and the microscope also replaces an older, well-used model.

Project objectives and goals: The objective of Catching Plankton is to replace equipment used by many of the over 85,000 youth served by OSO's free, ocean-going science and environment education program. It's goals are to: 1) allow students to use a tow net to collect a sample of plankton in seawater on board the Team O'Neill catamaran, and 2) allow students to view a portion of the plankton on a slide in the cabin of the boat. The samples are also later viewed in the marine biology classroom in the education center, using a much more complex microscope and a camera for viewing on a large television screen. This project aligns with funding received last year from the Fish and Game Advisory Commission for iPads and an app to allow data entry on the boat in that students may examine the a portion of the sample while taking other crucial data



points, such as temperature, depth, salinity and visibility.

Background and history of the problem: Most science lessons in elementary schools grades 4-6, which OSO covers, do not have the exciting setting of the ocean as a living classroom. That is the gap that OSO fills, first with our field trip and secondly with ocean science curriculum that connects the ocean to what they learn in their own classroom. OSO uses classroom science tools, such as a plankton net and microscope to make use of the classroom aspect of the sea. The Fish and Game Advisory Commission has funded many of these tools, the latest being iPads and apps for data collection.

How will the project be accomplished: OSO purchased an Optical 161 compound microscope and a plankton net with two collection jars.

Amount of request:

\$750	Microscope
<u>\$150</u>	Plankton net
\$900	TOTAL

Amount spent:

\$735.94	Microscope
<u>\$260.00</u>	Plankton net/jars
\$995.94	TOTAL

Outcomes: The microscope was purchased in April, 2016 and the net and collection jars were purchased in May, 2016. Both are currently in service.

# Santa Cruz Wharf Trash Can Decal Project to Raise Awareness of California's Marine Protected Areas



6 designs  
and  
50 decals  
& installed.



# Protecting Our



Wolf Eel (*Anarrhichthys ocellatus*)  
© Chad King/NOAA MBNMS

# Protecting Our



Pile surfperch (*Rhacochilus vacca*)  
© Steve Lonhart/NOAA MBNMS

# Underwater Treasures

# Underwater Treasures



Did you Know?  
Wolf Eels live below the Santa Cruz Wharf!  
Find out more about these and other creatures at:  
[www.santacruzwharf.com](http://www.santacruzwharf.com)

# Protecting Our



Red Rock Crab (*Cancer productus*)  
© Steve Lonhart/NOAA MBNMS

# Underwater Treasures

Did you Know?  
Pile surfperch live below the Santa Cruz Wharf!  
Find out more about these and other creatures at:  
[www.santacruzwharf.com](http://www.santacruzwharf.com)



Did you Know?  
Red Rock Crabs live below the Santa Cruz Wharf!  
Find out more about these and other creatures at:  
[www.santacruzwharf.com](http://www.santacruzwharf.com)



# Protecting Our



California halibut (*Paralichthys californicus*)  
© Ed Bierman

# Protecting Our



Pacific Red Octopus (*Octopus rubescens*)  
© Kirt L. Onthank

# Underwater Treasures

# Underwater Treasures



Did you Know?  
California halibut live below the Santa Cruz Wharf!  
Find out more about these and other creatures at:  
[www.santacruzwharf.com](http://www.santacruzwharf.com)

# Protecting Our

Did you Know?  
Pacific Red Octopi live below the Santa Cruz Wharf!  
Find out more about these and other creatures at:  
[www.santacruzwharf.com](http://www.santacruzwharf.com)



Cabezon (*Scorpaenichthys marmoratus*)  
© Chad King/NOAA MBNMS

# Underwater Treasures



Did you Know?  
Cabezon live below the Santa Cruz Wharf!  
Find out more about these and other creatures at:  
[www.santacruzwharf.com](http://www.santacruzwharf.com)



August 19, 2016

Kristen Kittleson  
Fish and Wildlife Advisory Commission  
County of Santa Cruz  
701 Ocean Street, Room 312  
Santa Cruz, CA 95062



COASTAL-WATERSHED.ORG

*Preserving and protecting  
our coastal watersheds*

Re: County Fish and Wildlife Commission Grant Report

Dear Kristen,

I am writing today to acknowledge the County of Santa Cruz Fish and Wildlife Advisory Commission's generous support to the Coastal Watershed Council (CWC) through a \$1,600 grant to launch Ecosystem Expeditions, a series of monthly educational tours of the San Lorenzo River on the topic of fish species, habitat and best management practices.

In 2013, CWC co-founded a community coalition, the San Lorenzo River Alliance (Alliance), to reconnect a healthy San Lorenzo River watershed to a vibrant community by improving habitat, water quality, and public perception. The Alliance focuses on building a constituency of local residents who feel a strong, direct connection to the San Lorenzo. Organizations in the Alliance are working collaboratively to host over 50 diverse events each year so that there is a reason for everyone to reconnect with this river. While there is a range of recreational, cultural and social events, CWC noted a lack of events that specifically focus on learning more about fish habitat and fish species of the San Lorenzo River.

With your support, CWC hosted six Ecosystem Expedition tours around the San Lorenzo River from January to May 2016, drawing 120 people to learn more about local fish species, habitat and best management practices.

Lasting one to two hours, each event was an interactive walking tour and took place at sites along the banks of or nearby the San Lorenzo River and its tributaries. Each event featured leading local experts presenting their scientific expertise. CWC coordinated with Alliance partners to recruit experts to lead tours on topics such as lagoon management; water use and instream flows; diet, habitat and behavior of fish species; elements of healthy ecosystems for endangered and threatened fish species of the San Lorenzo River.

Tour topics also included ecosystem functions of native trees in the lower San Lorenzo River; lifecycles of anadromous fish and the impact of stream morphology on fish spawning; the history of urbanization along the San Lorenzo River and impact on native Steelhead trout and Coho salmon; and stream gage monitoring and instream flows with US Geologic Survey. Tours drew people from Santa Cruz County and beyond. One individual even traveled from Palo Alto to learn about fish habitat and was lucky enough to spot a steelhead in a shaded pool. Expeditions reintroduced many participants to the beautiful natural settings just minutes from

**COASTAL WATERSHED COUNCIL**

345 Lake Avenue, Suite F, Santa Cruz, CA 95062 ~ (831) 464-9200

[www.coastal-watershed.org](http://www.coastal-watershed.org)

their homes and they realized their proximity to precious riverine habitat. Many people commented at how frequently they had driven or walked past the tour sites but never thought of the fish and other organisms the ecosystem supported. Visiting the river and learning more about the riverine ecosystem encourages the community to form a stronger connection to the San Lorenzo River, to better understand how we interact with the river and its fish species and to make more informed decisions for its future.

Attendees benefited from the expertise shared by the staff and field crews of the US Geologic Survey, water resource managers at City of Santa Cruz Public Works and Water Departments, California State Park rangers and volunteer docents, local fish experts, and fishery biology and geomorphology PhD students from UCSC.

CWC promoted Ecosystem Expeditions widely throughout Santa Cruz County. CWC continued to build upon our long-standing relationships with local sport fishing groups like Santa Cruz Fly Fishermen by drawing on knowledge from their local experts and drawing participating from some local recreational anglers in learning more about the river in which they are fishing. Ecosystem Expeditions were advertised in local papers and CWC was delighted to see the Santa Cruz Sentinel write a story about the San Lorenzo River stream gage tour with the US Geological Survey (USGS) in February. Thanks to the news coverage, the Ecosystem Expeditions educated not just tour attendees but those in the greater Santa Cruz community on how the stream flows are monitored.

I've enclosed this article and photographs from the some of the other Ecosystem Expeditions. Thank you for taking the time to review our report and supporting CWC's work over the past year. Please let us know if you have any questions. We look forward to working together to provide educational and inspirational opportunities along the San Lorenzo River to reconnect a healthy watershed to a vibrant community.

Warmly,



Greg Pepping  
Executive Director  
Coastal Watershed Council

Santa Cruz Sentinel (<http://www.santacruzsentinel.com>)

## U.S. Geological Survey shows how it measures stream flow

**The Coastal Watershed Council organized the tour on the San Lorenzo River**

*By Samantha Clark, Santa Cruz Sentinel*

Saturday, February 20, 2016



FELTON >> The U.S. Geological Survey gave a behind-the-scenes public tour on Saturday of how it measures stream flow in the San Lorenzo River, which is a major drinking water source for Santa Cruz and home to a number of struggling species.

After years of drought, the river is parched. This season's El Niño so far hasn't packed the precipitation punch that scientists had predicted.

"Unfortunately, we haven't seen the historic flows we've seen in the past," said Anthony Guerriero, field office chief for the U.S.

Geological Survey in Santa Cruz. "Right now, we're at about 52 cubic feet per second. Historically, based on 80 plus years of data, we'd be at 70 cubic feet per second, so it's about 60 percent of normal flow."

A cubic foot of water is about 7.5 gallons of water and about the volume of a basketball.

From a bridge over the San Lorenzo River in Henry Cowell State Park in Felton, Guerriero and his team demonstrated how they calculate the water flow using both trusty technology from the 1930s and modern equipment.

Precise data is important because Santa Cruz County, the city of Santa Cruz and California Fish and Wildlife use this information for water supply planning or wildlife habitat management, he said.

But if there's too much water, that can be a problem. The U.S. Geological Survey also provides this data to the county which decides when to activate an emergency alert system to warn people of flooding. These measurements are taken every 15 minutes.

The Coastal Watershed Council, a nonprofit in Santa Cruz, organized the tour, which about 30 people attended.

"The goal is to connect the public with people working in the watershed and technology that's used in the watershed and to focus," said Alev Bilginsoy, the event organizer and a river scientist with the council. "The San Lorenzo River is a beautiful river that's really dynamic, so we want people to understand how it changes over time."

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URL: <http://www.santacruzsentinel.com/environment-and-nature/20160220/us-geological-survey-shows-how-it-measures-stream-flow>

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**Above: Barry Burt, local fish expert and educator with the Monterey Bay Salmon and Trout Project, describes lifecycles of anadromous fish species of the San Lorenzo River and the impact of urbanization on fish during the *Guided Walk on Salmonids of the San Lorenzo River*.**

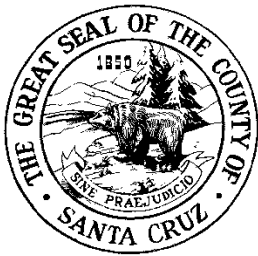
**Below: During the *Spawning Grounds of Fall Creek* tour, Diana Baestcher and Allison Pfeiffer of UCSC present the ideal stream morphology conditions for spawning patterns of steelhead in Fall Creek. This group was fortunate enough to later spot steelhead in a shaded pool.**





Above: Anthony Guerrero of the USGS explains one of the many devices used to monitor streamflow at a stream gage site on the San Lorenzo River during the *Behind the Scenes with the US Geological Survey* tour. Tour participants had the opportunity to watch a few of these devices deployed, and learned of the value of instream flow monitoring for downstream communities and ecosystem health.

Below: City Arborist Leslie Keedy describes native and non-native trees that provide habitat for species in the lower San Lorenzo River during the *Trees of Santa Cruz Riverwalk* tour.



# County of Santa Cruz

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## DEPARTMENT OF PARKS, OPEN SPACE & CULTURAL SERVICES

979 17<sup>TH</sup> AVENUE, SANTA CRUZ, CA 95062

(831) 454-7901 FAX (831) 454-7940 TDD (831) 454-7978

JEFF GAFFNEY  
DIRECTOR

August 11, 2016

Kristen Kittleson  
701 Ocean St. Rm. 312  
Santa Cruz, CA 95060

Dear Kristen,

Please find the attached **Grant Completion Report** for the Scott Creek Informational Kiosk and Interpretive Signage Project. The \$2,000 grant was awarded to the County of Santa Cruz Parks Department in December of 2015. With the submittal of this report we have fulfilled all of the deliverables identified in the scope of work. Thank you for funding this important project and we look forward to working with you in the future.

Sincerely,  
Gretchen Iliff

Park Maintenance Superintendent  
Santa Cruz County Parks

**County of Santa Cruz Fish and Game Advisory Commission**  
**Grant Completion Report** – Prepared 8/12/16

**Project Name:** Scott Creek Informational Kiosk & Interpretative Signage

**Grant Recipient:** County of Santa Cruz Parks Department  
979 17<sup>th</sup> Ave.  
Santa Cruz, CA 95062

**Project Summary:** The 2015 Grant awarded to the County of Santa Cruz County Parks Department was for the erection of a centralized signage piece intended to communicate to beachgoers how their activities may affect the environment and encourage them to make the best possible choices to limit their impact on their sensitive surroundings.

The defined scope of work outlined in the grant has been completed and the appropriated funds have been exhausted. County staff constructed a kiosk that fits appropriately within the scenic character of the site. Parks staff is working with Kristen Kittleson, Resource Planner with the Fish and Game Commission to complete the final arrangement of signs that will display instructive information about the surrounding sensitive habitats in a concise and comprehensible way. The kiosk, located in a centralized area near the beaches main access point, maximizes the likelihood that the information will be seen and read by visitors.



Typical signage prior to kiosk project



Completed kiosk with protected enclosure

**Project Success:** The centralized information kiosk is a marked improvement from the scatter shot way in which signage was previously managed. The kiosk will soon organize pertinent information and communicate the necessary rules, educational components, and hazards in a visible location and in an aesthetically pleasing way. In addition to the expected protection to the surrounding ecosystem, the kiosk provides an appropriate arrival gateway for the beach. The consolidation of information allowed for the removal of the miscellaneous signage and poles reducing the visual clutter that obscured the view of the beach. When complete the signage component will be successful in that it will convey the importance of protecting the habitats of snowy plover on the beach

and the fish in the lagoon in an educational manner rather than in a directive tone.

In ending, the project was successful in achieving its four established goals: 1) Providing a visually compelling and easily understood information piece about species protection, 2) Offering dog exercise alternatives while educating dog owners why dogs are not permitted at Scott Creek Beach., 3) providing key information about sensitive beach ecosystems, and 4) educate visitors about park rules.



Location of informational kiosk in context



Location of kiosk



Example of type of signage that will populate kiosk (illustration purposes only)

**Expenditure of Funds:** Amount of funding award totaled \$2,000

Items	Grant Funds	Match Contribution	Totals
Lumber for Kiosk	\$736	-	\$736
Hardware	\$116	-	\$116
Signage & Printed Displays	\$415	-	\$415
County Staff Labor (43 hrs @\$39 per hr)	\$733	\$944	\$1,677
<b>Totals</b>	<b>\$2,000</b>		<b>\$2944</b>

SCARBOROUGH HOME CENTER, INC.

9470 HIGHWAY 9  
P.O. BOX 848  
BEN LOMOND, CA. 95005-0848  
PHONE: (831) 336-5142

30 DAYS + RECEIPT REQUIRED ON RETURNS  
THANK YOU FOR SHOPPING AT SCARBOROUGH

Customer No 11623	Job No. 1	Purchase Order No. 003446	Reference PO # 003446	Order # 67500	Ship To NORTH CA	Ship To	Class OGM	Date 3/23/86	Time 9:30
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Sold To  
\* S. C. COUNTRY PARKS  
OPEN SPACE & CULTURAL SERVICES  
979 17TH AVE.  
SANTA CRUZ, CA 95062-4170  
(831) 454-7920

\* MAINTENANCE SUPPLIES  
P.O. 003446 DATED 07/03/84  
\$16,000 EXPIRES 07/02/85  
(831) 454-7919

DEL. DATE: 3/22/86 TERM#570  
SI-SPR: 00 DEFAULT  
TAX: 200 A/R SALES TAX: S CRUZ

DOC# 267893  
\*\*\*\*\*  
\* INVOICE \*  
\*\*\*\*\*  
ORDR 675007

SHIPPED	ORDERED	UM	SKU	DESCRIPTION	UNITS	PRICE/PER	EXTENSION
2		EA	6616DPPT	6X6X16' D.F. PT AUTUMN TONE	2	79.68 /EA	159.36 *
4		EA	4609DPPT	4X6X8' DP PT AUTUMN TONE	4	25.20 /EA	100.80 *
1		EA	4610DPPT	4X6X10 DOUG FIR PRESSURE TREATED	1	31.50 /EA	31.50 *
2		EA	4609DPPT	4X6X8' DP PT AUTUMN TONE	2	25.20 /EA	50.40 *
1		EA	34CDX	3/4 CDX BLISWOOD 4XB	1	29.19 /EA	29.19 *
1		EA	2408DPPT	2X4X8' DP PT AUTUMN TONE	1	6.80 /EA	6.80 *
4		EA	2412DPPT	2X4X12' DP PT AUTUMN TONE	4	10.20 /EA	40.80 *
1		EA	CS1	CRDR SHINGLES PREM. 1/4 SQ.	1	68.99 /EA	68.99 *
1		EA	DC	DELIVERY CHARGES	1	10.00 /EA	10.00 *
				** AMOUNT CHARGED TO STORE ACCOUNT **			
				BARROTT, JOS			
						TAXABLE	664.21
						NON-TAXABLE	10.00
						SUBTOTAL	674.21
						TAX AMOUNT	61.44
						TOTAL AMOUNT	735.65

A/R SALES TAX: S CRUZ  
1\* CA Number Sales T  
CASH SALES TAX: S CRUZ

X  
Received by \_\_\_\_\_

SCARBOROUGH HOME CENTER, INC.  
 9470 HIGHWAY 9  
 P.O. BOX 848  
 BEN LOMOND, CA. 95005-0848  
 PHONE: (831) 336-5142

30 DAYS - RECEIPT REQUIRED ON RETURNS  
 THANK YOU FOR SHOPPING AT SCARBOROUGH

Customer No. 11623	Job No. 1	Purchase Order No. 003446	Reference NORTH COAST	Terms NET 10TH	Class JDR	Date 3/23/16	Time 10:37
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Sold to  
 \* S.C. COUNTY PARKS  
 OPEN SPACE & CULTURAL SERVICES  
 979 17TH AVE.  
 SANTA CRUZ, CA 95062-4170  
 (831) 454-7926

Ship to  
 \* MAINTENANCE SUPPLIES  
 P.O. 003446 DATED 07/03/14  
 \$16,000 EXPIRES 07/03/15  
 (831) 454-7919

TERMS: 569  
 00 DEFAULT  
 200 A/R SALES TAX: S CRUZ  
 DOC# 267902  
 \*\*\*\*\*  
 \* INVOICE \*  
 \*\*\*\*\*

SHIPPED	ORDER#	LN	SKU	DESCRIPTION	UNITS	PRICE/PER	EXTENSION
12		EA	50MS	MISC. SCREWS	12	3.49 /EA	41.88 *
18		EA	50MS	MISC. SCREWS	18	.55 /EA	9.90 *
8		EA	50MS	MISC. SCREWS	8	2.69 /EA	21.52 *
2		EA	20139	BARRECADE TAPE "CAUTION" 1000'	2	9.99 /EA	19.98 *
1		EA	2138055	1/2X100' FIBROLS TAPE ROLL	1	15.99 /EA	15.99 *

\*\* AMOUNT CHARGED TO STORE ACCOUNT \*\*  
 BARROT, JOB

TAXABLE	116.12	TAX AMOUNT	6.85
NON TAXABLE		TOTAL AMOUNT	116.12
SUBTOTAL	109.27		
ID DISCOUNT	-2.00		

X   
 Received by



# SANTA CRUZ MUSEUM of natural history

## Report of Project Completion

### County of Santa Cruz Fish and Game Advisory Commission

#### **Birding Along the San Lorenzo, Winter Series 2016**

**Project Manager:** Felicia Van Stolk, Education Program Manager

#### **Project Summary:**

In February and March 2016, the Santa Cruz Museum of Natural History offered six free public educational walks along the San Lorenzo River to promote understanding and appreciation of this unique wildlife habitat. Each of the walks was facilitated by a Museum naturalist and guided by expert birders from the Santa Cruz Bird Club. The walks began in the downtown area of the San Lorenzo River, and followed along the San Lorenzo River Walk. Participants listened for and observed bird behavior while learning about birding skills, and sharing knowledge about bird biology and ecology.

This program successfully attracted a diverse group of attendees, ranging from young families to senior birders. There was also a wide range of experience within the groups, including folks new to birding, and those who were experts themselves. These walks were an opportunity for members of the community to come together and share their interests, skills, and enthusiasm for nature. For many guests it was their first time utilizing the River Walk and appreciating the San Lorenzo River.

In addition to teaching people about birds, wildlife viewing skills, and basic ecology, these walks became a forum for discussion about the general health and care of the San Lorenzo River. Many recurring participants were well versed in issues pertaining to river health, and the local proposals for management. The Museum was happy to have this experience open the door to continued engagement, and saw many guests return to other opportunities such as a science and policy lecture about the San Lorenzo River hosted at the Museum in June. This level of continued participation is evidence that the Bird Walks were successful in reaching the goals of educating the public, raising their access and awareness of the river, and inspiring environmental stewardship.

#### **Program Accomplishments:**

The Museum partnered with the Santa Cruz Bird Club to coordinate **6 walks**, one of which was cancelled due to rain. We obtained all necessary permits from the City of Santa Cruz and arranged for each walk to be led by a different Club member, representing a range of expertise, from songbirds to shorebirds. Through online and print promotions, the Museum attracted attendees from the general community as well as from its own base of members. On average, there were **15 participants per walk**, and in total there were **106 participants registered**, plus **19 “walk-ins”** that were welcomed into the walks.

In the future we hope to continue this program in partnership with the Santa Cruz Bird Club and other wildlife enthusiasts. We plan to expand this program with additional aspects including conducting citizen science and bird counts, and providing tools such as binoculars to those who may not have them. As a member of the San Lorenzo River Alliance, the Museum is committed to increasing community engagement around the River and its health. Continued free programming is essential for equity and access for all community members to become environmental stewards. We thank the County of Santa Cruz Fish and Game Advisory Commission for supporting our efforts to connecting our community to nature and inspire stewardship of our local green spaces.

connecting  
people with nature

## **Native Animal Rescue Grant Report, August 29, 2016**

The funds from the Fish & Wildlife Grant supported the direct cost of providing food, medication, and supplies needed for the treatment and rehabilitation of wildlife brought to us. We have received 1834 animals thus far in 2016 which breaks down to 1336 birds, 487 mammals, 9 reptiles, and 1 amphibian. Providing food is a major expense because we buy so many specialty foods. Included are fish for the sea birds, frozen rats and mice for the hawks and owls, seed and mealworms for songbirds, formula for orphaned mammals, and fruit, nuts, and kibble for other animals. We also need nutritional supplements and electrolytes like Ensure for the sickest and weakest animals. Medications are always needed at Native Animal Rescue. We use vaccines, antibiotics, de-wormers, and wound cleansers. We have an ongoing need for general supplies too such as paper products, bandaging material, laundry and cleaning products, and gloves.