



Diatom Digest

Inspiring a sense of appreciation and stewardship for the Bay through education

Teacher Newsletter of the Hayward Shoreline Interpretive Center

Fall 2012

A World of Mystery

by Colesé Henry - Southgate Elementary Parent

The waters gushed out; they ran in the dry places like a river!

Clouds bringing forth light rains

Thursday, April 26th Southgate Elementary School

Teacher Mrs. Reich's class of

3rd grade students along with chaperones

Visiting the Hayward Shoreline Interpretive Center!

Introduction of docents Ann and Nancy

Explanation of salt and fresh water

Special Bay- the estuary and Mermaids in the wetlands

Rules of respect for the land, docents, animals and one another!

Separating into two groups

Nancy the Naturalist waved her magic wand

Turning the students into scientists!

Tasting pickleweed a favorite food for the Salt Marsh

Harvest Mouse

Tide was low and sometimes high-the elements of the earth, moon, sun.

The gravity of the moon is pulling as the sun rotates

Sandpipers tiny prints walking in the mud-Adaptation

Snowy Egret with yellow feet and a black bill!

Scatologist birds do not urinate-scat findings of jackrabbits

Gopher snakes, rattlesnakes* and lizards

Invasive mud snails turning side flips

Love water coming from the East Coast-flowers of

Brass Buttons

Plovers an endangered species under Resource

Protection Area

Miniture crabs v-shape for males, u-shape for females!

Windmills of the North Face

The sun began to SMILE-enjoying bag lunches!

Separating mud, scrape and squirt-placed under a microscope

The habitat of many creatures-Plankton

Swish, Swish, Swish nets for fishing!

Observing young scientists a fun and learning experience

DISCOVERING "A WORLD OF MYSTERY" ON THE HAYWARD SHORELINE!

The Hayward Shoreline Interpretive Center is an environmental education facility specializing in salt marsh and wetland ecology. We lead field trips and programs for local school groups and the general public. Please enjoy this poem sent to us by a parent of one of our students!



TEACHERS WANTED! Join the HASCAC

Become a member of the Hayward Area Shoreline Citizens Advisory Committee (HASCAC)

Members of the Citizens Advisory Committee advise the Hayward Area Shoreline Planning Agency (HASPA) concerning the public's interest along the Hayward shoreline, aid in fostering a positive image of the shoreline and help educate the public about park/shoreline issues and activities. Members undertake studies, make recommendations and advise on subjects as requested by the Board of Trustees at quarterly meetings. If you are an Alameda County resident and are interested in having a positive impact on your community become a member of HASCAC. Visit haywardrec.org to download an application.

*rattlesnakes are not endemic to the Hayward shoreline, although they are found in California.

Program	Length	In-District Fee*	Out-of-District Fee	Recommended Grade
Salty Stories	1 hour	\$112.00	\$140.00	1st Grade
Saltmarsh Wonders	2 hours	\$167.00	\$208.75	2nd grade
Shoreline Discoveries	3 hours	\$210.00	\$262.50	3rd and 4th grade
Wetland Ecology	4 hours	\$248.00	\$310.00	4th - 8th grade

*The Hayward Area Recreation and Park District includes Hayward, Castro Valley, San Lorenzo and the unincorporated areas of Fairview, Ashland and Cherryland.

General Program Descriptions

Salty Stories -Pre K and K

During this hour long trail hike students:

- Observe and replicate activities of shoreline animals
- Explore the salt marsh with our 5 senses
- Learn the definition of habitat
- Identify plants and animals

Saltmarsh Wonders - K and 1st Grade

During this two hour trail hike students:

- Discover shoreline birds and plants
- “Go fishing” in the channel
- Examine the fish, snails, bugs and other aquatic life
- Identify plants and animals

Shoreline Discoveries - 2nd Grade thru 6th Grade

Two hour trail hike followed by a Mud Lab and Channel Study

- Hike along the Bay Trail down to the shoreline,
- Identify wildlife on the trail
- Observe and stop for “teachable moments”
- Collect mud to examine in the “Mud Lab”
- Catch (and release) fish in the channel

Wetland Ecology - 3rd grade thru 8th Grade

Three hour trail hike followed by a Mud Lab and Channel Study

- Use scientific equipment
- Visit areas of the marsh that are closed to the public
- Compare freshwater, channel water and Bay water
- Go dipnetting and complete a mud lab

We can incorporate any of your science requests into your program to fulfill your needs. All programs following the California State Science Standards.

Teacher Feedback

We ask each teacher to evaluate our school program after each visit. Here is some of our recent feedback.





Photos by Warren Holcomb

An Outdoor Science Resource for Teachers

“In a completely rational society, the best of us would aspire to be teachers and the rest of us would have to settle for something less, because passing civilization along from one generation to the next ought to be the highest honor and the highest responsibility anyone could have.

-Lee Iacocca

Teacher and Student Wetland Resource Center

In addition to our large variety of resources for teachers,



we also have many research papers and magazines for your students to use to complete reports. Refer your students to the Wetlands Resource Center at the

Hayward Shoreline

Interpretive Center for one-on-one assistance by our experienced staff naturalists.

Open Saturdays and Sundays 10AM to 4:30PM.
Wednesday through Friday by appointment.

4th Grade Salt Pond History Program Available in Fall: Solar Salt Farming on the Hayward Shoreline

Participate in a program designed for 4th grade students studying California history. Due to the nesting season of the threatened snowy plover, **this special program is only available during the fall and winter.** The salt ponds offer a historical site ideal for bringing fourth grade social science to life. As a state designated historic landscape, the salt ponds provide students a living “sense of place” where abstract facts, from Ohlone life to the gold rush, become an engaging

and interactive discovery. This program is based on California State Standards for Social Science and Environmental Study, Interpretive Center naturalists present the dynamic picture of ancestral and early California. Book your program today!

Take advantage of this introductory rate, expires 2013!

Program	Salt Ponds History Hike
Length	4 hours
In District Fee*	\$125.00
Out of District Fee	\$156.25
Grade Level	4th Grade

"What they do not value, they will not protect. And what they do not protect, they will lose." - Charles Jordan



Photo by Cris Benton

Hayward Shoreline Interpretive Center

Fall 2011

A program and facility of the Hayward Area Recreation and Park District



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or current resident