

AGENDA

**COMMUNITY AFFAIRS COMMITTEE MEETING
LEUCADIA WASTEWATER DISTRICT**

Wednesday, November 20, 2019 – 11:30 a.m.
1960 La Costa Avenue, Carlsbad, CA 92009

1. **Call to Order**
2. **Roll Call**
3. **Public Comment**
4. **New Business**
 - A. Review of the Teacher Grant Applications. (Pages 2-11)
5. **Information Items**

None.
6. **Directors' Comments**
7. **General Manager's Comments**
8. **Adjournment**

MEMORANDUM

DATE: November 14, 2019
TO: Community Affairs Committee (CAC)
FROM: Paul J. Bushee, General Manager 
SUBJECT: Review of Teacher Grant Applications

RECOMMENDATION:

Staff requests that the CAC recommend that the Board of Directors:

1. Award Three Teacher Grants totaling \$4,091; or
2. Discuss and provide direction, as appropriate.

BACKGROUND:

Tactical Goal: Services/ Teacher Grant Program Awards

LWD’s Teacher Grant Program was established during 2008. Over the years minor adjustments have been made to the program such as, updating the timeline of the program and increasing the dollar amount of the grant that teachers are eligible to receive. Last year, the Teacher Grant amount was increased to maximum amount of \$2,000 per grant and the budget was increased to \$6,000. In addition, staff increased its outreach efforts to encourage teachers to apply for the grant.

DISCUSSION:

During late August 2019, staff provided the teacher grant information to nine elementary schools, one middle school, and one high school indicating that the submission deadline was October 25, 2019. Staff and RTP contacted all schools and teachers via email to inform and send reminders about the deadline. Staff also updated the LWD website that included a Teacher Grant Program page with a quick link to its home page. RTP posted several Facebook posts about the program and LWD received several online discussions about the program.

As a result of these efforts, the District received the following three applications by the deadline:

Received Teacher Grant Applications:

Applicants	School	Amount Requested:	Project
June Honsberger	La Costa Canyon High School	\$2,000	Native Plant Garden / Outdoor Classroom
Nancy Jois	Capri Elementary	\$1,000	Rain Garden Project
Jennifer Smith	El Camino Creek Elementary	\$1,091	Hydroponic Garden
TOTAL:		\$4,091	

Staff has reviewed all applications and each qualifies for a grant based on the program's criteria. Also, the total costs for all four grant requests is under the FY 20 budget of \$6,000. Staff is recommending that the grants be awarded to all three applicants. The applications are attached for your review.

Staff recommends that the CAC review the teacher grant applications and forward applications to the Board of Director's at the December 11, 2019 Board meeting for their approval.

th:PJB

Attachments



LEADERS IN ENVIRONMENTAL PROTECTION



Grant Application Form

During the 2019-2020 school year Leucadia Wastewater District will award grants to teachers in local elementary, middle, and/or high schools in LWD's service area. The District anticipates awarding up to three grants up to \$2,000 each.

Use this cover sheet as page one of your application. Identifying information is to be included on the cover sheet only. **IN YOUR PROJECT NARRATIVE DO NOT INCLUDE YOUR NAME, THE NAME OF YOUR SCHOOL, OR THE NAME OF YOUR DISTRICT.** Completed applications **MUST BE** emailed to mbrechbiel@lwwd.org or received by Friday, October 25, 2019.

IDENTIFYING INFORMATION

June Honsberger

Teacher's name

Grades 9-12

Earth Science

Grade

Subject

La Costa Canyon High School

San Dieguito Union High School District

School name

District

1 Maverick Way, Carlsbad, CA 92009

School address, including street, city and zip

Reno Medina

760-436-6136

Principal's name

School phone number

La Costa Canyon High School Foundation

Name of parent organization (i.e. PTA or school foundation)

Native Plant Garden and Outdoor Classroom \$2000

Project title

Grant amount requested

June Honsberger

Teacher's signature

Please tell us how you heard about this program:

- Poster/Flyer Web site Another Educator Newsletter Other

Native Plant Garden and Outdoor Classroom

A. Description of Project:

This water use project will have students plant and maintain a new drought tolerant garden area that will become the backdrop for our school's outdoor classroom. The garden will surround a patio and a meadow near our schools 1300's building. The project will be a joint endeavor between the earth science classes and our schools native plant club.

The earth science students will team up with members of the native plant club and they will begin by removing the invasive species in the area. Next, the earth science students will research low-water plants and trees to discover which varieties will grow in our arid climate. The science students will work in groups to design and choose plants for the different areas. They will then meet with the student in the native plant club to share their designs and revise the plans as needed. Once the designs are finalized, the supplies will be ordered, and all of the students will work together to install the new garden.

After the garden is installed the science students and club members will be responsible for maintaining the plants for the duration of the school year. Additionally, science students will investigate the benefits of providing a habitat for native wildlife through a variety of garden activities and experiments. They will keep detailed records of plant growth and use the data to make the connections between local climate, native plants and the water use.

This garden project will involve two classroom teachers and 100 high school science students and native plant club members, grades 9-12. The project will be on going, with planting beginning in the Spring of 2020. These hands on activities require garden tools, soil, compost, plants, trees, seeds, and mulch. Funds are needed to make this garden project a success. The grant would be used to purchase necessary supplies. Our parent foundation will provide outdoor tables and umbrellas.

Photos below show the patio, garden areas and meadow that will be transformed by this project.



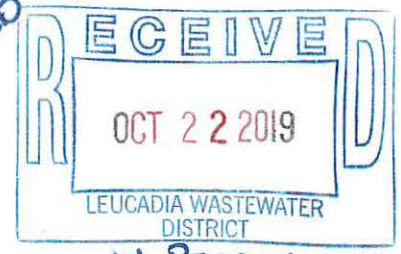
B. Learning Objectives

Students will study the relationship between local climate, native plants and water use. Students will research and choose low-water plant varieties that will thrive in our arid Southern California climate. Students will monitor and record growth patterns in plant varieties to determine the characteristics of successful gardening.

C. Budget

Item	Quantity/vendor	Amount	Non-Consumables
Shovels	20 @ 10.00- Home Depot	\$200	x
Pitch forks	5 @ 15.00- home depot	\$75	x
100' garden hose	2 @ 75.00 – Home Depot	\$150	x
Watering cans	10 @ 15.00 – Home Depot	\$150	x
Water key	5 @ 12.00 – Home Depot	\$ 60	x
Wheel barrow	2 @ 90.00 – Home Depot	\$ 180	x
Garden Soil	15 @ 10.00 – Home Depot	\$ 150	
Mulch/compost	60 bags @ 5.00 – Home Depot	\$300	
Plants, Trees & Seeds	Sunshine Gardens/Andersons	\$735	
	Total	\$2000	

mb



LEADERS IN ENVIRONMENTAL PROTECTION

Grant Application Form

During the 2019-2020 school year Leucadia Wastewater District will award grants to teachers in local elementary, middle, and/or high schools in LWD's service area. The District anticipates awarding up to three grants up to \$2,000 each.

Use this cover sheet as page one of your application. Identifying information is to be included on the cover sheet only. **IN YOUR PROJECT NARRATIVE DO NOT INCLUDE YOUR NAME, THE NAME OF YOUR SCHOOL, OR THE NAME OF YOUR DISTRICT.** Completed applications **MUST BE** emailed to mbrechbiel@lwwd.org or received by Friday, October 25, 2019.

IDENTIFYING INFORMATION

Nancy Jois
Teacher's name

Kindergarten
Grade

Subject

Capri Elementary School Encinitas Union School District
School name District

941 Capri Road Encinitas CA 92024
School address, including street, city and zip

Carrie Lancon (760) 944-4360
Principal's name School phone number

Name of parent organization (i.e. PTA or school foundation)

The Rain Garden Project \$1,000
Project title Grant amount requested

Nancy P. Jois
Teacher's signature

Please tell us how you heard about this program:

Poster/Flyer Web site Another Educator Newsletter Other

To whom it may concern,

I am applying for a grant in the amount of \$1000 to teach my kindergarten students about water conservation and water use in landscaping in our dry Southern California climate to meet the Next Generation Science Standards for their grade. With these funds my class would participate in a project learning about rain gardens, xeriscaping, and, specifically, how to create a rain garden on our school campus and what types of native drought resistant plants would be best suited for a rain garden. My class would be placed into 4 groups, each with a specific function. They will be interviewing local experts using pre-scripted questionnaires to learn about local vegetation and rain gardens.

The first group would interview SWPP students at our school and ask how we get water for landscaping. This would provide a baseline of understanding from which my students could extend their learning at various water locations within our community. The second group would be in charge of interviewing docents at Batiquitos Lagoon about native plant life in and around the lagoon. The third group would be in charge of interviewing the owners of Sunshine Gardens, learning about succulent plants, xeriscaping, and purchasing succulents for our school rain garden. The fourth group would be in charge of interviewing a local landscape architect to get their feedback on the soundness of the location of the rain garden, how many plants it should hold, and what the benefit would be to having a rain garden on campus.

These interviews would occur on location at our school, Batiquitos Lagoon, and Sunshine Gardens. The interviews would be videotaped by a parent volunteer and then edited by a parent volunteer into an educational video. The resulting video would then be used to teach other primary grades about water conservation and landscaping in San Diego. The video could also be shown at the Encinitas Library. My students would also make presentations to the community to encourage the creation of rain gardens in our Encinitas neighborhoods. At the conclusion of this project not only would my class understand how water conservation can help the community, but their video would aid their peers and the community in understanding the importance of rain gardens and xeriscaping, through the eyes of children.

This project consists of 23 students, 1 teacher, 6 parent volunteers, and roughly 10 community members. We would use \$550 of the funds to provide transportation to and from the 2 locations outside our school (Batiquitos Lagoon and Sunshine Gardens) and \$200 for processing of our video footage into a formal presentation, \$100 for technical advice for creating water related questions, and \$150 for native plants. Our project would begin in January 2020 and filming would conclude by the end of February 2020. Our footage would be sent out for processing by March 1st and be ready for presentation by March 20th.

As a result of this project my students will be able to: 1. Understand the importance of clean water and that it is finite, 2. Understand that they can make a contribution to water resource management by creating a rain garden, 3. Understand that the water they divert to the rain garden will not go down the storm drain, 4. Understand that some succulents are the best choice for a rain garden because they are drought resistant and become aware of the vegetation in their neighborhoods in terms of their relative water consumption needs, and 5. Understand that their knowledge can be used to teach others.

Budget:

\$550 for transportation

\$200 for video production

\$150 for purchasing succulents for the rain garden

\$100 for Advisor, Environmental Engineering graduate student

Gratis Advisor- Environmental Engineering Consultant

Thank you for your time and consideration.



LEADERS IN ENVIRONMENTAL PROTECTION

Grant Application Form

During the 2019-2020 school year Leucadia Wastewater District will award grants to teachers in local elementary, middle, and/or high schools in LWD's service area. The District anticipates awarding up to three grants up to \$2,000 each.

Use this cover sheet as page one of your application. Identifying information is to be included on the cover sheet only. **IN YOUR PROJECT NARRATIVE DO NOT INCLUDE YOUR NAME, THE NAME OF YOUR SCHOOL, OR THE NAME OF YOUR DISTRICT.** Completed applications **MUST BE** emailed to mbrechbiel@lwwd.org or received by Friday, October 25, 2019.

IDENTIFYING INFORMATION

Jennifer Smith

Teacher's name	
4th	General education
Grade	Subject
El Camino Creek	Encinitas
School name	District
7885 Paseo Aliso Carlsbad, CA 92009	
School address, including street, city and zip	
Jodi Greenberger	760-943-2051
Principal's name	School phone number
Allison Banks--PTA president	
Name of parent organization (i.e. PTA or school foundation)	
Hydroponics	1,091.00
Project title	Grant amount requested
Jennifer Smith	
Teacher's signature	

Please tell us how you heard about this program:

Poster/Flyer
 Web site
 Another Educator
 Newsletter
 Other

October 23, 2019

We are asking for you to please fund our class's hydroponic project. Our 4th grade class is currently growing hydroponic crops of butter leaf lettuce, kale and basil. The subject areas and academic activities associated with our project include the Science of growing hydroponically with lessons on Ph and conductivity and comparisons of water use when growing in soil, human impacts on the planet and the need to conserve and re-use water, social science studies to include access to nutritional food and food waste, and last but not least, for the students to experience the phenomenon of growing their own food, eating it and appreciating the effort that went in to growing it. The students are responsible for tending to their crops.

Our project not only benefits our class of 29 students, but the entire school, as our crops are placed outside in a high traffic area where all the students can walk by to see the crops growing in the systems. We also harvest and sell our crops to families in our school community. Our principal is very enthusiastic about our project and we have support from a hydroponic farmer to maintain and clean the systems. We are using 3 existing hydroponic systems and can grow 30 plants at a time.

The location is outside near our classroom. We have an ongoing timeline that consists of: planting and germinating the seeds- transferring the seedlings to the bato buckets, daily observations and water nutrient level data collection, adding nutrients and Ph solution of needed, harvesting, selling and cleanup. These crop cycles can occur in an 8 to 10 week cycle throughout the school year. We hope to have 3 and maybe 4 crops this year.

The objective of our project is to have an appreciation of the resources, effort and energy that go into growing food.

Please see attached itemized budget.

Thank you for your consideration.

ECC HYDROPONIC GROWING SUPPLIES- 2019-20

Item	Cost per unit	Quantity	Total	Link	Reusable
Grow Buckets		20	\$40	https://growershouse.com/premium-square-black-plastic-pots-container#	y
Crop Covers	\$22	3	\$66	https://www.gardeners.com/buy/garden-row-covers-growth-accelerator/8591990.html	y
Ph up and down	\$16	2	\$32	https://www.bwgs.com/Item/Details/12073	n
grow plugs	\$23	2 bags	\$46	https://www.bwgs.com/Item/Details/8732	n
propagation tray no holes	\$1.50	1	1.5	https://www.bwgs.com/Item/Details/2528	y
propagation tray with holes	\$2.20	1	\$2.20	https://www.bwgs.com/Item/Details/14150	y
Hydrocorn grow media	36	1	\$36.00	https://www.bwgs.com/Item/Details/10282	y
Cooler	\$80		\$80.00	https://www.walmart.com/ip/Coleman-100-QUART-XTREME-5-Day-Heavy-Duty-Cooler-With-Wheels-Blue/5192860?wmlspartner=wlp&selectedSellerId=1383&adid=2222222227009134313&wl0=&wl1=g&wl2=c&wl3=40970509472&wl4=pla-56842980887&wl5=9031286&wl6=&wl7=&wl8=&wl9=pla&	y
Seeds- Kale, lettuce, basil	\$25	1	\$25.00	https://www.amazon.com/Simple-Green-SMP11001-All-Purpose-Concentrate/dp/B01LT23KZO/ref=sr_1_5?ie=UTF8&qid=1539638761&sr=8-5&keywords=SIMPLE+GREEN	n
SIMPLE GREEN	\$12.48	1	\$12.48		n
Total Supplies			\$341		

HOURS TO MAINTAIN (per crop about 10 weeks)	Total Labor Hours per crop
system overview, plant seeds, transfer, train hydro kids,	2
Edmodo or power school daily	1
System maintenance 1x per week	5
harvest and System clean	2
Total	10 hours
	\$25 per hour
	= \$250 per crop

3 to 4 crops per school year possible

Total Amount Requested \$1,091.00