

FORMAT FOR FINAL REPORT

Name of Grant Recipient SEA-DISC, Sir Francis Drake H.S. Date 6/11/2007
Contact Person Susan L. Fox Telephone 415-945-3600 x4414

1. Accomplishments:

- We restored a 150 meter section of the Sleepy Hollow Creek on Sir Francis Drake High School's property, San Anselmo. The restoration was based on students' survey of the current plant species demographics, soil analysis, and water quality assessment. Approximately 190 native plants replaced the non-natives removed; the area of the previous year was given care also. Wattles were added to reinforce sliding or eroded banks and a set of log steps were added down slope to prevent erosion of the path. Irrigation was added to help maintain the new plants, with the help of Charlie Kennard.
- Water quality data was taken along with Benthic Macroinvertebrate samplings in the Spring. The data was analyzed for PTI, EPT richness, and overall WQI. There was WQ monitoring at the source (Cascade Canyon), and Drake H.S. to help us make better comparisons this Flood year. The students presented their findings with display boards, which are available to display at any MCSTOPPP function upon request.

2. Products:

- Students generated individual restoration plans which can be used as templates for future restorations.
- Some SEA-DISC interns, using their knowledge learned from our project, aided K-8th students in creek restoration projects (Laura Honda's Class). The juniors made displays on several features of WQ that were studied this year: WQI, BMI, Physical Features, and History of this Watershed.

3. We revegetated the first quarter section of the Sleepy Hollow Creek (closest to Sir Francis Drake) which runs through Drake High. SEA-DISC WQ monitored the San Anselmo Creek, which also runs through Drake and its source the Cascade Canyon Creek. These are both part of the Corte Madera Watershed.

4. Forty students worked directly on the revegetation, and along side Charlie Kennard an adult volunteer from Friends of Corte Madera Creek. Twenty-Eight students participated in WQ monitoring.

5.

- Our school benefited in several ways. First and most importantly the students participating in the project gained a profound understanding of the riparian habitat and the importance of biodiversity. Other students on campus benefited by the exhibition of effort they witnessed SEA-DISC student put forth towards a community service. As role models for stewardship, SEA-DISC encouraged other students at Drake to participate in community service.

As many staff have mentioned, "the creek area appears much nicer" which makes for improved community relationships

- Our Community benefits from this revegetation by having a long term monitoring of the health of the creek. Creeks are not only a resource to the community by increasing property value for aesthetics, they are fundamental parts of the water cycle. With the erosion loss that was occurring property was being lost, and we all know land = \$! This project also adds to the greater community of Marin by improving water quality, and therefore decreasing loss of aquatic biodiversity, not to mention increased native plants leading to stable ecosystems. Steelhead Trout adults were witnessed in both creeks this year. Unfortunately, the trout in the San Anselmo Creek was witnessed out of water at the fish ladder.

6. We encountered a new problem with watering of the creek plants to help them establish this year, due to the school's renovation. Previous water hook-ups were eliminated and a new one will be added this summer.

7. This project used both water sampling and insect sampling.

- Water sampling was done using several different pieces of equipment. The Sleepy Hollow Creek was monitored using LaMotte Kits and probeware. The San Anselmo Creek was monitored using LaMotte water sampling test kits purchased with previous SEA-DISC moneys and added to with MCSTOPPP moneys in previous years. These kits appear to give more exact numbers, however, following directions is required to get accurate numbers. Several trials were done to ensure valid results. These kits are expensive, as are the refills and replacement pieces. We have received a grant from Buck Institute for Palm Pilots which we used with Probes to do more precise measurement. They have shown to be much better than the kits, and do not use chemicals which are bad for the environment. Aquatic Macro invertebrate sampling has occurred on the San Anselmo Creek (both sites mentioned above) for the seventh year. The protocol from the EPA was used for sampling, Pollution Tolerance Indexing (PTI) and Percent Compassion data. Two scientific display boards were produced on this topic. Drake has shown to be the worst WQ of the two sites.

8. I feel this project was very successful in both repair and education. The vast majority of the plants have survived. The willow wattles have bloomed holding the banks during this long rainy season. This section had good tree canopy, however, had several barren sections which had erosion of varying degrees. The positive affect on our students is easily measurable now. They not only wrote very in-depth plans for recovery, but also final reports on the quality of the creek

9. Press coverage's (This is still almost impossible to get covered.) however, we publicize it on our website <http://drake.marin.k12.ca.us/academics/seadisc/>

10. Budget follows on next page and receipts are attached.

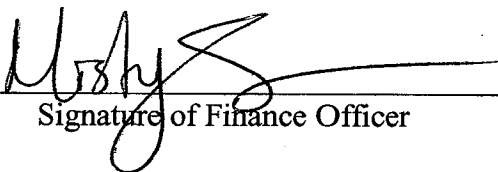
Request for Payment

Name of Organization SEA-DISC Drake H.S.
 Address 1327 Sir Francis Drake Blvd. San Anselmo Ca 94960
 Program Director Sue Fox (SEA-DISC) Misty Shore (Budget) Don Drake (Principal)
 Phone # 415-945-3600 x4414 (Fox)
 Total Grant Award Allocated: \$1700.00
 This request covers expenses for report period ending: June 2007

ITEM	COST
1. 60 Plants + Seed (O'Donnell's Nursery) + tax	\$812.70
2. 12 Bags Organic Compost (O'Donnell's Nursery)	Inc. above
3. 128 Plants (North Coast Natives)	\$753.91
4. Drip Irrigation supplies (Fairfax Lumber)	\$124.18
Total Requested=	\$1690.79

Total Amount of Reimbursement Requested \$1690.79
 Funds Remaining in Grant \$9.21

Certification: I certify to the best of my knowledge and belief that this report is correct and complete and that all outlays and obligations are for the purposes set forth in the services agreement.



 Signature of Finance Officer

8/6/07

 Date



6/29/07

NORTH COAST NATIVE NURSERY

PO Box 660
 PETALUMA, CA 94953

707.769.1213 FAX 707.769.1230
 WWW.NORTHCOASTNATIVENURSERY.COM

Invoice

RECEIVED

Tamalpais Union High School
 P.O. Box 605
 Larkspur, CA 94977
 ATTENTION; Accts Payable

NOV 9 2006
 TAMALPAIS UNION HIGH SCHOOL DISTRICT
 BUSINESS OFFICE

Date Of Bill November 6, 2006
Invoice # 1945
Order # 6-265
Terms net 15

Phone 415-945-3737

Fax

PO# 071117. Tamalpais Union High School District.
 SEA DISC Program.

Quan	Size	Latin	Common	Unit	Total
2	3 gal	<i>Acer macrophyllum</i>	big leaf maple	13.00	26.00
1	trpt	<i>Aesculus californica</i>	buckeye	5.75	5.75
12	D40	<i>Baccharis pilularis</i>	coyote brush	4.25	51.00
1	gal	<i>Calycanthus occidentalis</i>	western spicebush	4.35	4.35
4	D40	<i>Cornus sericea (= C. stolonifera)</i>	American dogwood	4.35	17.40
3	5 gal	<i>Corylus cornuta var. californica</i>	California hazelnut	18.00	54.00
12	gal	<i>Heteromeles arbutifolia</i>	toyon	7.00	84.00
7	gal	<i>Iris douglasiana</i>	Douglas iris	6.00	42.00
8	1ch	<i>Juncus patens</i>	blue rush	1.90	15.20
8	gal	<i>Lonicera hispidula var. vacillans</i>	vine honeysuckle	4.35	34.80
6	2"	<i>Lonicera involucrata</i>	twinberry honeysuckle	2.10	12.60
8	gal	<i>Mimulus aurantiacus</i>	sticky monkeyflower	4.40	35.20
10	gal	<i>Polystichum munitum</i>	western sword fern	6.25	62.50
8	gal	<i>Rosa californica</i>	wild rose	4.40	35.20
15	1ch	<i>Rubus ursinus (= R. vitifolius)</i>	California blackberry	2.10	31.50
2	1ch	<i>Symphoricarpos albus var. laevigatus</i>	snowberry	2.10	4.20
5	gal	<i>Rhamnus californica</i>	coffeeberry	4.40	22.00
4	5 gal	<i>Rhamnus californica</i>	coffeeberry	15.00	60.00
10	gal	<i>Calamagrostis nutkaensis</i>	sand reed grass	4.35	43.50
2	3 gal	<i>Vitis californica</i>	California wild grape	13.00	26.00

*OK to pay
 11/5
 Misty*

Subtotal 667.20
TaxRate 7.75% **Tax** 51.71
Tray / Container Deposit
Shipping 35.00
Current Charges \$753.91
Less Deposit
Total Due \$753.91