



Committee on Sustainability Green Fees Project Final Progress Report

Grantee name and email: Karen Duhring karend@vims.edu

Today's date: October 1, 2012

Project name: Floating Treatment Wetlands

Date awarded (semester and year): Spring 2011

Amount awarded: \$8,000

Amount spent to date: \$7,933.58

Briefly describe progress you have made on your project since your interim report:

Both floating treatment wetland projects at VIMS and the Williamsburg campus were launched in mid-April 2012. The 100 sq ft Grim Dell project features a variety of native wetland plants that are effective in pollutant removal as well as providing wildlife habitat value. The 180 sq ft VIMS project features a variety of native tidal wetland plants most with some salinity tolerance. Additional plants were added to the VIMS floating treatment wetland in September 2012 to supplement bare cover areas and to compare survival of spring and fall plantings.

Other activities include continued water quality analysis by W&M student Katherine Thomas at the "Grim Dell" pond. Karen Duhring developed outreach materials for the VIMS project, including an outdoor display next to the pond where the floating wetland is located and a workshop presentation about the project that is available for downloading. Randy Chambers and Karen Duhring both contributed to a press release in August 2012, which was distributed to other media outlets.

Is your project finished? Yes

How would you describe the success of your project or the impact your project made on the campus?

This pilot project was successful because it raised awareness about storm water pollution and the role of wetland plants to improve water quality. Both floating treatment wetlands gained a lot of attention from W&M people and the general public. The Grim Dell project is now part of Dr. Chamber's on-going storm water monitoring program in the community. The water quality data collected before and after launch were inconclusive during the first year. Continued monitoring will investigate if there are any measurable effects.

Useful information about wetland plant species selection and survival was obtained. Plant survival and recruitment will continue to be monitored at both locations. These projects will remain available for W&M undergraduate and VIMS graduate students to conduct their own research. The VIMS project is on display for tour groups and workshop participants. Both Randy and Karen have responded to numerous requests for additional information locally and from around the nation.

VIMS Teaching Marsh



Wetland Plants at VIMS Floating Treatment Wetland

- | | |
|--------------------|-------------------------|
| Arrow arum | Blueflag iris |
| Pickerelweed | Blueflag iris, southern |
| Bulltongue | Marsh hibiscus |
| Soft rush | Seashore mallow |
| Softstem bulrush | Swamp milkweed |
| Saltmarsh bulrush | Joe pye weed |
| Common threesquare | New York ironweed |
| Switch grass | Seaside goldenrod |

William & Mary Grim Dell Pond



Wetland Plants at W&M Floating Treatment Wetland

- | | |
|---------------|-----------------|
| Arrow arum | Marsh hibiscus |
| Pickerelweed | Cardinal flower |
| Shallow sedge | Blueflag iris |

Attach copies of receipts for funds you have spent since the interim progress report.

The attached receipts show payments for:

Floating Islands

180 sq ft (VIMS)	\$4500
100 sq ft (W&M)	\$2500
Shipping	\$ 425
Sub-Total	\$7425

Wetland Plants

Spring	\$189.88
Fall	\$267.90
Sub-Total	\$457.78

Anchors & Supplies **\$50.80**

TOTAL SPENT **\$7933.58**