



WILLIAM & MARY

CHARTERED 1693

COMMITTEE ON SUSTAINABILITY

# Integrated Waste Management Report

## 2016-2017

A special thanks to:

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This document was constructed by the Committee on Sustainability Diversion Working Group, consisting of students and staff from across the campus and co-chaired by Natalie Steinberg '17 and operations director, Gregg Shipp. It outlines the structure of the W&M diversion program, how it functions, what is diverted, responsible parties involved, and suggestions for the future.

## **Introduction**

William & Mary is a public research university dedicated to sustainability through environmental, social and economic initiatives. An important step on our path towards a zero waste campus is a robust diversion program.

Founded by royal charter in 1693 by King William III and Queen Mary II of England, W&M is the second-oldest institution of higher education in the country. Its campus size is 1,200 acres with an average undergraduate enrollment of 6,000 and graduate enrollment of 2,000. The college has more than 30 undergraduate programs and more than 10 graduate/professional degree programs. In any given year, there are 5000 students in residence on campus during the academic year, living in the 70 residence halls and eating at the 3 dining halls and 7 coffee shops. The majority of the other 100 buildings on campus are academic, office or athletic buildings.

The Virginia Institute of Marine Science (VIMS), housing the W&M marine science graduate school, is located in Gloucester, Va. Its campus size is 45 acres with the majority of its 68 buildings on campus dedicated to research and office space. There are no residence halls or dining facilities for the graduate students that frequent the campus.

## **Program Overview**

W&M practices single-stream recycling at both indoor and outdoor locations on the main campus (all standard recyclables are collected in one container, then sorted at the facility). Facilities Management oversees the collection of indoor/outdoor waste and recycling for the majority of campus with the exception of dorm rooms, which students are responsible for. Sadler Center/Campus Center, Athletics and Dining Services each have their own staff that service their waste and recycling containers on a day-to-day basis.

The Office of Procurement and Facilities Management oversee the W&M contract with recycling provider Tidewater Fibre Corporations, and waste provider Waste Management, while the Office of Sustainability and Committee on Sustainability work to communicate the services provided to the university under these contracts. The Environment, Health, and Safety (EH&S) team handles many non-standard disposals, including unusual recycling efforts, but plays little role in managing the standard commodities recycling system.

Through the dining halls on campus, Sodexo contracts the pick up of pre- and post-consumer food waste, collecting food preparation scraps and anything remaining on returned trays, for composting off-site.

Niche diversion practices have also developed in different offices and departments, depending on the materials. No specific individual or department is officially responsible for recycling, thus changes to the system must spread quite far to achieve implementation.

Historically, the VIMS campus was dual stream (paper separated from plastics/glass/cans) and Facilities Management not only collected recyclables from containers but also transported them to the local collection facility. Recently, VIMS added one single stream dumpster through the W&M provider, TFC, as a pilot project to streamlining the diversion system on the Gloucester campus.

## Recycling Guidelines

Recycling guidelines were developed to help clarify the diversion message being communicated as well as increase diversion efficiency. These guidelines apply to all waste and recycling receptacles in common areas and should be adhered to whenever possible.

- **Recycling and waste containers should be paired** to reduce contamination of recycling and loss of recyclables to the landfill
- **Recycling should have some form of blue designation** as this color is widely associated with recycling
- **Lids to recycling containers should feature a universal opening** (circle and slit) to convey that all recycling containers are mixed and thus accept paper, plastics, glass and metal
- **Collection Bag Colors**
  - Recycling: **CLEAR** plastic bags (if any)
  - Waste: **BLACK** plastic bags
  - Organics: **GREEN** compostable bags

\*available for events through Dining Services



## W&M Diversion at a Glance

Materials	Location/Responsible Party
Clean: paper (you can tear, they can take it), wax lined cartons, cardboard, glass, plastics #1-7, metals	Any recycling container on campus
Organics, compostables, food soiled paper and cooking oil	Commons Dining Hall, Sadler Dining Hall, Public Compost Bin (between Sadler and the Health Center, map in Compost section) Marketplace (publicly accessible)
Batteries (in house), small electronics, plastic bags, shoes, books, clothes, ink cartridges	Swem Library, Sadler Center *locations vary by year **batteries collected by EH&S ***plastic bags collected by Alpha Phi Omega
Shoes, plastic bags	Campus Recreation Center
Electronics, office furniture, vehicles	Surplus, Finance
Mattresses	Residence Life
Dorm items	DormMania, a COS working group
Solo cups	Solo Cup Campaign (SEAC)
Scrap metal	Residence Life, Facilities Management, Parking & Transportation
Landscaping organics & tires	Facilities Management
Bicycles	Parking & Transportation
Reusable Water Bottles	Parking & Transportation, Cohen Career Center, Take Back the Tap (SEAC), Sadler, Campus Center, Swem Library
Hazardous chemicals, cleaners, CFL bulbs	Environmental Health & Safety (EH&S)

\* For additional, decentralized collections, see Niche Recycling Tabl

## **Campus-Wide Waste & Recycling**

W&M contracts the services of Waste Management for waste disposal and Tidewater Fibre Corporation (TFC) for our campus-wide recycling program, implemented through recycling containers placed outdoors, in common areas, and blue bins located by most desks and office commons. The Waste Management and TFC contracts are managed by senior procurement officer, Kathy Mabe ([klmabe@wm.edu](mailto:klmabe@wm.edu)), and facilities management coordinator, John Dutro ([jwdutro@wm.edu](mailto:jwdutro@wm.edu)), whom also receive waste and recycling data from the providers. However, responsibility for collection of these materials is spread throughout multiple departments depending on the location of the bins.

## **Collection of Waste and Recycling**

The responsibility of collecting waste and recyclables from standard containers across the campus varies depending on location. Once collected these items are deposited in their appropriate dumpster for pick-up by providers, most waste and recycling dumpsters are located together behind specific buildings on campus (Appendix B). Waste containers are always lined with black bags and recycling (if lined at all) are done so with clear. Any non-clear bags sent to TFC are discarded, unopened, as waste.

<b>Diversion Responsibilities</b>	
<b>Facilities Management</b> Director of Building Services, Bob Morman <a href="mailto:rwmorman@wm.edu">rwmorman@wm.edu</a>	
Indoor/outdoor waste and recycling (academic buildings, offices, dorm common areas)	
<b>Sadler Center and Campus Center</b> Sadler Center Director Bob Knowlton <a href="mailto:rcknow@wm.edu">rcknow@wm.edu</a>	<b>Resident Students</b>
Waste and recycling of Sadler Center and Campus Center	Responsible for emptying their own dorm room waste and recycling
<b>Sodexo, Dining Services</b> Directors of each facility	<b>Athletics</b> Adam Andrusyszyn
Waste, recycling, and compost for Marketplace, Center Court, Students' X-change, Commons Dining Hall	Waste and recycling for Kaplan Arena, Zable Stadium, Martin Family Stadium, Plumeri Park, Busch Field, Millie West Tennis Facility, Laycock Football Center

**Campus Containers**

Outdoor waste and recycling locations are paired, when space allows, and a metal aesthetic has been adopted as a standard for most locations. Some exceptions to the metal aesthetic do exist, such as in athletic areas. W&M logos are prohibited from use on waste and recycling containers, both indoor and out, as of Fall 2016. Offices may request recycling and waste containers from Work Control in Facilities Management. A recycling container, not waste, is furnished with each dorm room. The initial purchase of student dorm room recycling containers was completed through a student Green Fee grant, but since, Residence Life has undertaken the responsibility of maintaining and replenishing dorm room recycling bins.

Accepted in the Blue Bins	NOT Accepted in the Blue Bins
<p><b>Clean, dry paper</b></p> <ul style="list-style-type: none"> <li>• mixed, cardboard, newspaper, magazines, junk mail</li> </ul> <p><b>Plastics #1-7</b></p> <p><b>Wax-coated cartons</b></p> <ul style="list-style-type: none"> <li>• milk and juice cartons</li> </ul> <p><b>Aluminum, steel, tin cans, foil</b></p> <p><b>Glass bottles and jars</b></p>	<p><b>Food soiled paper</b></p> <ul style="list-style-type: none"> <li>• PIZZA BOXES *clean lids recyclable</li> </ul> <p><b>Aerosol cans and mirrors</b></p> <p><b>Plastic bags and electronics</b></p> <ul style="list-style-type: none"> <li>• Recyclable on campus. See Diversion at a Glance or Niche Recycling Table</li> </ul> <p><b>Plastic packaging, bubble wrap and styrofoam</b></p>

**Tidewater Fibre Corporation**

TFC provides to the College a commodity recycling service that includes paper, cartons, cardboard, steel and aluminum cans, and plastics #1-7. Prior to April, 2017, TFC did not take plastics #3-9 or wax papered items, like cartons. TFC’s contract with William & Mary is renewed annually on January 31, with the last extension ending on January 31, 2018. This service is single-stream (also called “co-mingled” or “mixed”), which means that items do not need to be sorted into categories beyond being separated from trash. TFC services thirty-four 8-cubic yard containers (“dumpsters”) across campus twice a week (on Tuesdays and Fridays) during the academic year, and brings the collected recycling to its Material Recovery Facility located at 1958 Diamond Hill Rd, Chesapeake VA 23324. This facility uses automated sorting to separate paper, aluminum, plastics #1-7, and mixed plastics before compacting the material into massive bales and shipping it to specialized plants (not owned by TFC) which will further sort and prepare it for re-use.



TFC is contractually obligated to gather and report some information on quantity of recycling collected on William & Mary's campus. TFC collects data during 12 collections each spring and autumn; extrapolation is required to obtain an annual estimate. The calculation is based around two types of data: approximate volume of material per dumpster (estimated to the nearest ¼ dumpster by TFC truck drivers during emptying) and the total weight of TFC's truck upon arrival at the Material Recovery Facility in Chesapeake, Virginia. Since TFC trucks usually collect William & Mary's waste along with other local customers ("milk-run" collection), most truck-weights are not representative of William & Mary alone; to combat this, TFC collected and weighed three samples of exclusively William & Mary waste (prior to Spring 2014). After summing the approximate volumes of material per dumpster from this sample to obtain the total volume of waste collected, TFC divided the truck weight by total volume and obtained an estimate of weight per full dumpster (waste density). Since this time, the calculated density is used as a multiplier for summed dumpster volume estimates to obtain total quantity recycled per collection.

## Compost

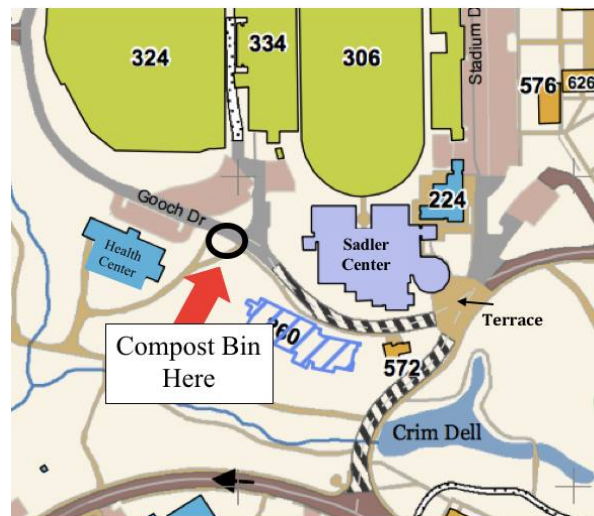
Dining Services, housed within Auxiliary Services, is managed by Sodexo Inc. Sodexo contracts Natural Organic Process Enterprises (NOPE, <http://nopeva.com/>) as a third party provider to collect organics from the campus every Monday, Wednesday and Friday and deliver these materials to McGill Composting (<https://www.mcgillcompost.com/>), an industrial compost facility in Waverly, VA. Food waste is collected from the dining halls of Sadler Center, Commons Dining, Campus Center and Williamsburg Campus Child Care. Behind each of these facilities, food waste is stored in 48 gallon containers, which are tipped into a truck by NOPE employees, often the owner, Chip Hall. W&M is provided compost credits through

NOPE where every ton of food waste removed from campus provides the institution 40lbs worth of compost, delivered free of charge. Credits may also be donated locally.

Within Sadler and Commons, all food preparation scraps are collected as well as any food remaining on returned trays. All food waste collection at these locations is done by Sodexo staff, diners do not have the opportunity to actively participate. In addition to back of the house food waste collection, in Spring 2017, Marketplace was outfitted with a set of waste containers that allows diners to separate their own trash, recycling and compost. This is a pilot project in allowing diners to actively compost and great strides have been taken to provide education in what should be placed in each container.

A public outdoor compost bin is also being piloted behind the Sadler Center. This bin is marked for compost, accessible at all times, and marketed to the audience most likely to request access to a compost bin. The Dining Services sustainability interns are tracking the use of the bin and possible contamination levels.

Public Composting Bin placement:



Sodexo has created a catering option that emphasizes sustainability through family style meals, avoidance of individually packaged products, all compostable flatware and materials, drinking stations for easy filling of reusable bottles, and compost containers where the majority, if not all, waste can be deposited. These compost containers remain manned during the event to help avoid confusion, and the contents are returned to the Sadler Center loading dock for collection by NOPE.

## **Niche**

Some departments and offices have taken the initiative to create systems to divert items, sometimes unique to their field, from the landfill through reuse or recycling. The chart located in Appendix A delineates the breadth of known voluntary diversion practices compiled through voluntary responses to an email inquiry and interviews.

## **Suggestions for the Future**

### **Reduce Reuse Recycle**

Place an emphasis in the diversion program on first reducing initial resource use, then reuse of materials, and finally recycling.

### **Recycling or Waste Management Coordinator**

A recycling coordinator can act as a point person that manages and drives progress in diversion across a campus. Having a single individual responsible for coordination of these efforts ensures cohesion, longevity, and representation of the initiative; critical components when the moving pieces of diversion are spread through so many departments. Alternatively, condensing all waste matters (recycling and waste management, compost reporting) under one individual would also serve to streamline reporting, management, efficiency and progress.

## **Diversion Consultant**

Confusion about diversion at W&M is the most common concern expressed to the Sustainability office from faculty, students, staff and visitors, every year. The W&M community is well intentioned and frustrated with what, they believe, should be a relatively simple process. The reality, demonstrated by this document, is that diversion at W&M has many moving pieces and stakeholders, making it a challenging topic to address, but not impossible. To make efficient and informed strides in this area the procurement of a consultant is highly recommended. The desire would be for an organization to, with the help of this baseline document, evaluate diversion at W&M, determine where improvements could be made, what those improvements could look like, effort/cost required and to what benefit, as well as help construct a tailored diversion plan and process for the campus.

## **Zero Waste Goal**

When envisioning what a sustainable institution or business entails, one of the first responses is usually zero waste. Although challenging, recognizing that in the end, this is the goal we are aiming for will provide incentives to drive progress, demonstrate our commitment, and encourage strategic thinking and planning with this goal in mind.

## **~~Centralize Diversion Staff~~ \*Complete as of Summer 2017**

The current system of staff from Facilities Management and Residence Life visiting the same outdoor locations to pick up waste (FM) or recycling (ResLife) and then taking it to the same location to dispose of it in the appropriate dumpster is redundant and inefficient. Centralizing reporting of staff responsible for at least outdoor disposal of items could free hours to be put towards expanding the diversion program to include other items (see Expand Pick-ups: Plastic Bags). Centralization in any way would also make training easier.

## **Desk Side Recycling Container Audit and Implementation**

Not all office desks are equipped with recycling containers, often individuals request containers from Facilities Management on a person-by-person basis. An audit of containers on campus would reveal how many desktside trash cans are missing a recycling counterpart. The key to recycling is often ease, so ensuring that recycling is an option within reach at the same time as waste, would likely improve diversion rates. Green Fee funds could be a possible avenue of meeting the shortfall in recycling bins.

## **Deskside Recycling with Waste Saddles**

Most items disposed of at a desk can be recycled, to place emphasis on this fact, multiple institutions have provided recycling containers with waste side-saddles, instead of full sized waste containers. This conveys the message that more room is likely needed for recycling at a desk, and suggests an unconscious behavior shift towards recycling.



## **Sustainability Catering**

W&M Catering launched a sustainability dining option in the fall of 2016. The option was to include composting bins, all compostable flatware and cups, an emphasis on low-waste by serving family style and forgoing disposable containers when possible, and the featuring of local/sustainable food choices. In its infancy, the program has great potential, but large strides could be made in the implementation of this program through consistency (ensuring flatware/cups provided really are compostable), appearance (the procurement of event appropriate compost containers), and clear instructions (signage for the event that can be displayed on the table and on the composting container). Marketing would also be beneficial, as the options is little known, such as featuring a quick link to it on the website, encouraging staff to explicitly offer it when departments book catering, and creating a graphic that can be provided to those who choose this options so it can be included on the marketing of their event.

In addition to the specific sustainability catering option, which also includes staff to help ensure items are disposed of properly, a simple, but important change could be made in all catering that provides disposable drinks, like bottled water and soda. Although the hope is that the items are in addition to a drink stations where reusable bottles or glasses can be filled, the addition of a recycling container would go a long way at events, especially large, annual, university sponsored affairs. Automatically embedding the addition of recycling into the catering program whenever disposable drinks are booked is a simple operational shift that many would notice and would impact the perception of sustainability at W&M both on and off campus.

## **Training**

Sustainability is contacted multiple times each year about custodial staff seen throwing recycling into waste containers. Although not all complaints are founded, there are some common mistakes, such as using black bags in recycling containers, which then

result in recycling being sent to the landfill. Annual required training of all diversion staff would help reduce diversion mishaps and emphasize the importance of the group's role on campus. Coordinating that training to include all diversion staff would provide consistency, a sense of community, and an opportunity for interaction, especially if there was a desire to involve other stakeholders such as providers or students.

## **Orientation**

When students first arrive to campus is the perfect time to set new behaviors. It is important that W&M is conveying clear information about how to recycle as well as our commitment to that cause. Parents have informed Sustainability that they take their cardboard boxes home because they do not see available recycling on campus. In 2014, then operations director Bob Avalor, discovered that staff posted at dumpsters to breakdown boxes were doing so only to reduce space and were then disposing of those boxes in waste bins.

### Suggestions:

- 1:1 ratio of waste dumpsters to recycling dumpsters, including temporary dumpsters on campus only during orientation
- Staff at dumpsters that are ensuring the appropriate items are recycled, or at least that the cardboard boxes are making into the recycling bin
- Signage waiting for the students that easily conveys what can be recycled in their room and possibly at other locations on campus (door hang tags? Flier in the bin? Magnet on the fridge?)

## Waste Containers for Dorm Rooms

Residence Life has heroically taken on the Green Fee funded pilot project that provided recycling containers to all dorm rooms. However, with no provided waste container, students often repurpose the recycling container for waste. Studies have shown that the most effective programs offer waste and recycling simultaneously. Perhaps another Green Fee grant could be procured for the initial purchase of matching waste containers, or side-saddles (mentioned in Deskside Recycling with Waste Saddles). Information provided at the time of the bin handout, or waiting in the container upon arrival, would also help clarify the purpose and uses of the containers (see Orientation).

## Expansion of Composting Collection: Pizza Boxes

A perhaps easily addressed waste stream on campus is pizza boxes. Currently these items cannot be recycled due to food contamination, but they can be composted, if only we created a structure that connected our students' pizza boxes with our current compost provider, NOPE. NC State has implemented a successful [pizza box composting project](#) with receptacle dumpsters located strategically across their campus and a marketing campaign to match. This would likely require discussions with Sodexo, as NOPE is contracted through Dining Services, and funding for containers and marketing, but holds great potential for high impact and effectiveness.





## Tailgating

Tailgating for athletic events poses a challenge for waste and diversion control.

Currently, trash bags are handed out by student workers to tailgaters, who are asked to pack-out or dispose of their waste. Providing a recycling bag in addition to the waste would be a hopefully unburdensome addition. From an efficiency standpoint, additional changes could be made, such as bag dispensers that could hold both waste, recycling, and even compost bags, as well as information on the use of each. Programs worth exploring could be those at NC State and Penn State.



## Working with coffee shops

Sustainable steps have been taken in many of the dining halls on campus, but there is room for stronger partnerships with the coffee shops on campus to encourage more sustainable practices. Composting, reusable mugs and flatware are just a few possibilities that collaboration could foster, as well as possible Green Fee proposals to help address hurdles or pilot projects.

## **Expand Pick-ups to Plastic Bags**

Plastic bags are currently collected at a few locations on campus (Sadler, Swem, Campus Rec). The student service fraternity, APO, currently collects the plastic bags and takes them to the nearest drop-off location for recycling. This system is not ideal, as it relies entirely on student volunteers, which fluctuate through the year, resulting in multiple calls to the Sustainability office about overflowing plastic bag receptacles. There is clearly a demand for plastic bag recycling and institutionalizing their pick-ups would provide a much needed service. Perhaps hours saved by staff not duplicating pick-ups at outdoor locations could be reallocated towards expanding and strengthening the diversion program in this way.

## **TFC recycling numbers**

The same three representative samples (and therefore the same waste density) are used year to year in TFC's extrapolation of our total recycling weight. This prevents the metric from reflecting changes in the composition of William & Mary's recycling, and causes its usefulness to rely exclusively on the diligence of truck drivers as they estimate dumpster quantities.

## **Waste audit**

A waste audit could help inform decisions about diversion in the future by revealing how much of our trash could have been recycled or composted. This could change provide valuable information to the diversion program about changes to be made in operations, logistics, and behavior. It would also serve as a good visual demonstration for the campus community on wasting less. Procuring the help of an outside organization in this audit would provide efficiency, reliable data and logistic support.

### **Compost Contract to Facilities Management**

As composting possibly expands beyond dining halls, it may be appropriate to house the composting contract more centrally with other waste management matters, within Facilities Management.

### **Future Editions of the Integrated Waste Management Report**

Additions to this plan could include a section on our waste provider, Waste Management, similar to what is included about TFC, as well as further detail on the graduate schools, particularly VIMS.

## Appendix A

Niche Recycling Programs at William & Mary						
(As of August 2015)						
<i>Department</i>	<i>Contact</i>	<i>Material</i>	<i>Process</i>	<i>Quantity</i>	<i>Contractor</i>	<i>Partner / Program</i>
Residence Life	Chris Durden	Mattresses	Recycle	11,000 lbs/year	LRP Recycling	
	Chris Durden	Metal	Recycle			Facilities Managemen t
	Chris Durden	Furniture	Re-Use		Blue Ridge Upholstery	
Procurement	Debra Acheson	Electronic Waste	Recycle	60,000 lbs/year	Computer Recycling of Virginia	Information Technology
	Debra Acheson	Office Furniture	Re-Use			Office Furniture Surplus
	Debra Acheson	Appliances	Re-Use	7,500 lbs/year		govdeals.co m

	Debra Acheson	Electronics	Re-Use	5,000 lbs/year		govdeals.com
	Debra Acheson	Specialty Furniture	Re-Use	10,000 lbs/year		govdeals.com
	Debra Acheson	Vehicles	Re-Use	20,000 lbs/year		govdeals.com
Facilities Management	John Dutro	Scrap Metal	Recycle			
	John McFarlane	Landscaping Scraps	Recycle	930,000 lbs (2000-01)		
		Tires	Recycle			
Parking & Transportation	Bill Horacio	Scrap Metal	Recycle		HIMCO	Facilities Management
	Bill Horacio	Bikes	Re-Use	100 bikes/year		Annual Bike Sale
	Bill Horacio	Disposable Water Bottles	Reduce			Office Water Cooler

Dining Services	Stephen Moyer	Organics	Recycle		NOPE Composting	
		Cooking Oil	Re-Use			Tribe Truck Farm
Environment, Health, and Safety	Sandra Prior	Batteries	Recycle	1,000 lbs/year		
	Sandra Prior	Compact Fluorescent Bulbs	Recycle	5000 lbs/year	AERC	
	Sandra Prior	Used Machine Oil	Recycle		FCC Environmental	
Information Technology		Unwanted Electronics	Re-Use		Dell Computers	Lease Program
Print Shop		Scrap Paper	Re-Use			Williamsburg Child Care
Hackworth Printing						
	Laurel Chapman	Toner	Recycle			Ricoh USA

	Laurel Chapman	Printer Paper	Reduce			Incentivize Two-Side Print
Cohen Career Center	Wendy Webb -Robers	Disposable Water Bottles	Reduce			Event Water Cooler
	Wendy Webb -Robers	Disposable Tablecloths	Reduce			Reusable Event Tablecloths
	Wendy Webb -Robers	Foamcore Board	Reduce			Re-Use for Multiple Events
	Wendy Webb -Robers	Keurig Cups & Disposable Dishes	Reduce			Regular Office Coffeemaker & Reusable Flatware
Athletics	Spencer Milne	Paper	Reduce			Paperless Ticket Options
	Spencer Milne					Zero-Waste Events
Muscarella	Melissa Parris	Wooden Crates	Re-Use			

	Melissa Parris	Display Materials	Re-Use			
Campus Recreation	James Holmes	Tennis Shoes				Nike
Swem Library		Batteries	Recycle			
		Cell Phones	Recycle			
		Toner Cartridges	Recycle			
		Plastic Bags	Recycle			
English	Melanie Dawson	Ink Cartridges	Recycle			
History	Daneene Kelley	Clothing	Re-Use	20 lbs/year		Goodwill
Art & Art History	Michael Draeger	Metal	Recycle			Facilities Management
	Michael Draeger	Plaster				



	Michael Draeger	Clay	Re-Use			Rehydrate
Theater		Scrap Wood	Re-Use			Art & Art History
Committee on Sustainability	Jesse Smyth (Class of 2018)	Plastic #6 (Solo Cups)	Recycle	115 lbs/year		TerraCycle
	Jaya Uppal (Class of 2018)	Dorm Furnishings	Re-Use	10,000 lbs/year		DormMania
Alpha Phi Omega	Abby Holcombe (Class of 2017)	Plastic Bags	Recycle			James City County Recycling Center
Take Back the Tap		Reusable water bottles	Re-use			Re-distribute lost bottle
Law School	Liz Jackson	Textbooks and study aids	Re-use			Sell to students at Law School
	Liz Jackson	Batteries	Recycle			EH&S

Business School	Josh Andelin?					
School of Education	Liz Kiewiet					
VIMS	Mark Brabham					

## Appendix B

8 yard receptacles on campus / location			
Building	Address	Number	Type
W&M ADAIR HALL	251 UKROP LANE	1	
W&M ADMISSIONS OFFICE	116 JAMESTOWN ROAD	1	
W&M ALUMNI HOUSE	500 RICHMOND ROAD	1	
W&M COLLEGE APTS	114 NORTH BOUNDARY ST	1	
W&M DINWIDDIE	100E WAKE DRIVE	1	
W&M DUPONT HALL	101 WAKE DRIVE	2	
W&M GILES HALL	500 UKROP WAY	3	
W&M GOOCH	100C WAKE DRIVE	2	
W&M GRAD HOUSING	713 SOUTH BOUNDARY	1	
W&M GREEN & GOLD	700A-J UKROP WAY	3	
W&M HUGHES HALL	221 IRONBOUND ROAD	1	
W&M ISC (INTEGRATED SCIENCE CTR)	540 LANDRUM DRIVE		Roll off
W&M JONES HALL	200 UKROP WAY	1	
W&M KING HEALTH CENTER	230 GOOCH DRIVE	1	4 yrd
W&M LAKE MATOAKA BOATHOUSE	113 UKROP WAY	1	4 yrd
W&M LANDRUM HALL	LANDRUM SERVICE DRIVE	4	
W&M LAYCOCK FOOTBALL	101 GOOCH DRIVE	1	

CENTER			
W&M MARSHALL WYTHE LAW SH	613 SOUTH HENRY ST	1	
W&M MATOAKA ART STUDIO	141 UKROP WAY	1	
W&M MCCORMICK NAG TENNIS CTR	805 SOUTH HENRY ST	1	
W&M MCGLOTHLIN-STREET HALL	251 JAMESTOWN ROAD	1	
W&M MILLER HALL	101 UKROP WAY	1	
W&M MORTON HALL	100 UKROP WAY	1	
W&M NICHOLSON	100D WAKE DRIVE	1	
W&M OLD DOMINION	201 JAMES BLAIR DRIVE	2	
W&M ONE TRIBE PLACE	415 RICHMOND ROAD	2	
W&M PBK HALL	601 JAMESTOWN ROAD	1	
W&M POP LAB	803 SOUTH HENRY ST	1	4yrd
W&M SCHOOL OF EDUCATION	301 MONTICELLO AVE.	1	
W&M SMALL HALL	300 UKROP WAY	1	
W&M SORORITY COURT	195 ARMSTEAD AVENUE	1	
W&M SPOTSWOOD	100A WAKE DRIVE	1	
W&M SWEM LIBRARY	400 LANDRUM DRIVE	1	
W&M SWEM OFFSITE STORAGE	301 TENNIS COURT ROAD	1	
W&M TRINKLE HALL	108 JAMESTOWN ROAD	1	
W&M TUCKER HALL	350 JAMES BLAIR DRIVE	1	
W&M W & M HALL	751 UKROP WAY	2	

W&M WASHINGTON HALL	341 JAMESTOWN ROAD	2	
W&M YATES HALL	600 UKROP WAY	2	
		52	