



**CSM SUSTIANABILITY COMMITTEE**



















3401

SAN MATEO COUNTY  
COMMUNITY COLLEGE DISTRICT



# College of San Mateo



## College of San Mateo Sustainability Plan

Produced by the  
College of San Mateo  
Sustainability Committee

June 2013





# SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

## 4 QUALITY EDUCATION



### Goal 4: Ensure inclusive and quality education for all and promote lifelong learning

Obtaining a quality education is the foundation to improving people's lives and sustainable development. Major progress has been made towards increasing access to education at all levels and increasing enrolment rates in schools particularly for women and girls. Basic literacy skills have improved tremendously, yet bolder efforts are needed to make even greater strides for achieving universal education goals. For example, the world has achieved equality in primary education between girls and boys, but few countries have achieved that target at all levels of education.



# Helping Meet the SMCCCD Strategic Plan Goals

Goal 1	Develop and strengthen educational offerings, interventions, and support programs that increase student access and success
Goal 2	Establish and expand relationships with school districts, 4-year college partners, and community-based organizations to increase higher education attainment in San Mateo County.
Goal 3	Increase program delivery options, including the expanded use of instructional technology, to support student learning and success.
Goal 4	Ensure necessary resources are available to implement this strategic plan through sound fiscal planning and management of allocations. Protect community-supported status and undertake the development of innovative sources of revenue that support educational programs beyond that which is available from community and state allocations.



# Helping Meet CSM's Strategic Goals

1. Improve Student Success
2. Promote Academic Excellence
3. Develop Responsive, High-Quality Programs and Services
4. Support Professional Development
5. Implement the Integrated Planning Cycle and Ensure Fiscal Stability and the Efficient Use of Resources
6. Enhance Institutional Dialog





Academic  
Excellence

Facilities  
Excellence

Community  
Engagement

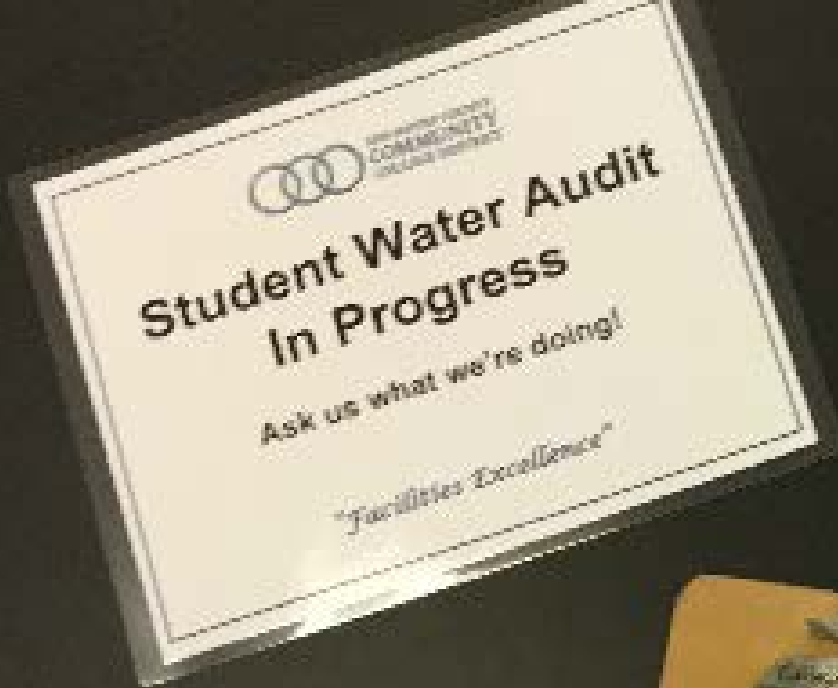
**SUSTAINABILITY**



ENGAGE

ENRICH

EMPOWER



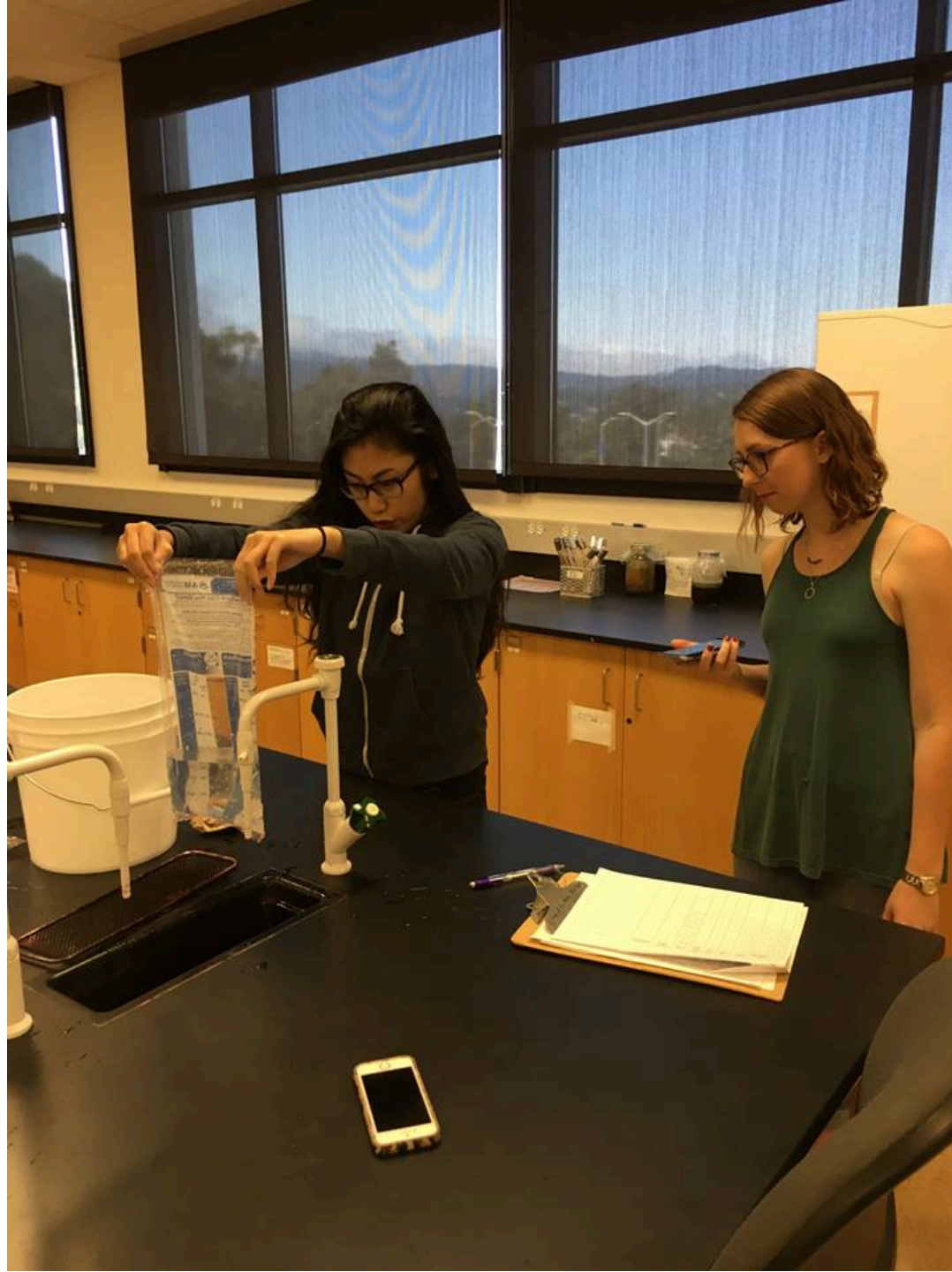
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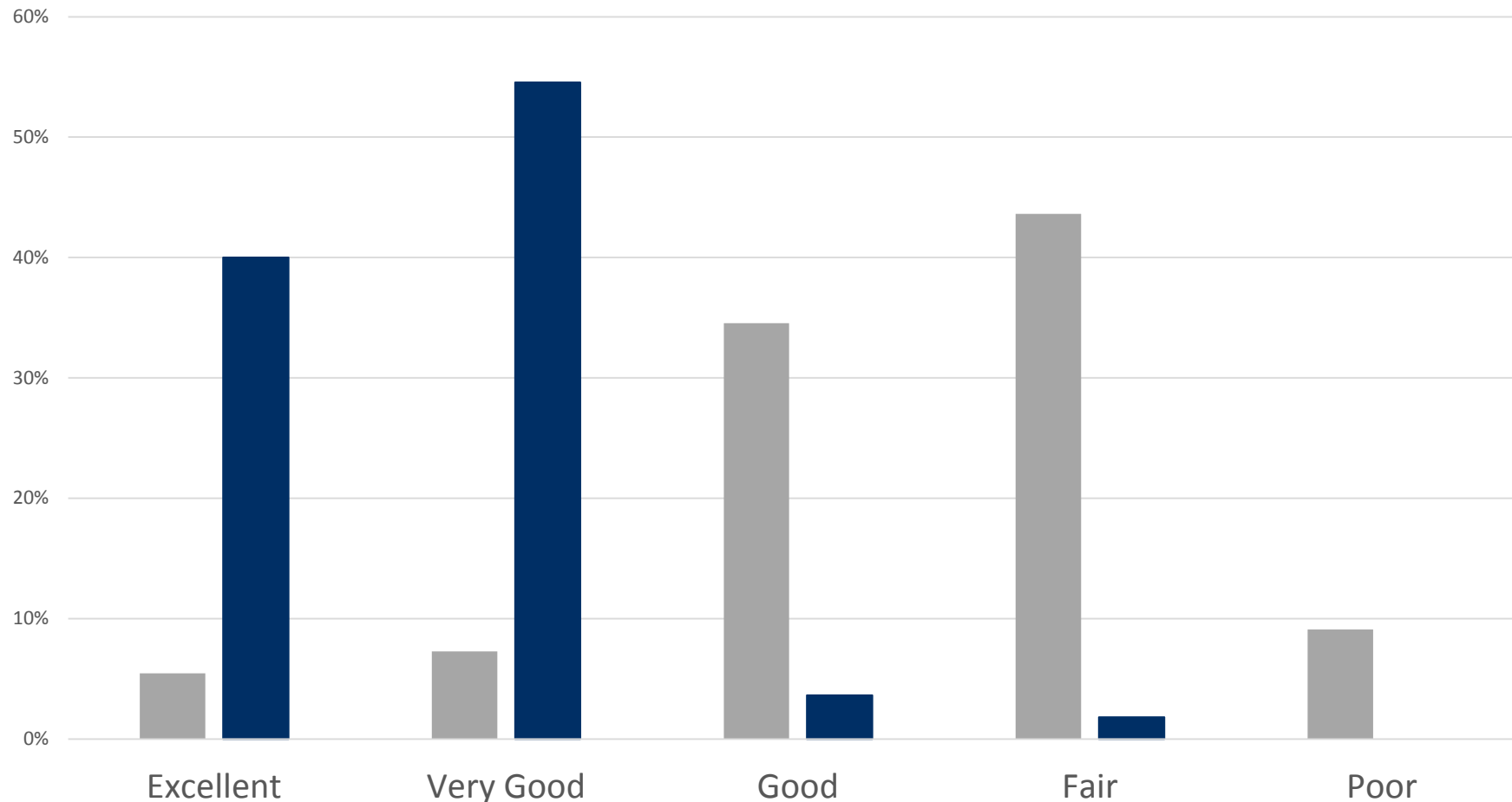








# Knowledge of Water Resources and Conservation Before vs After

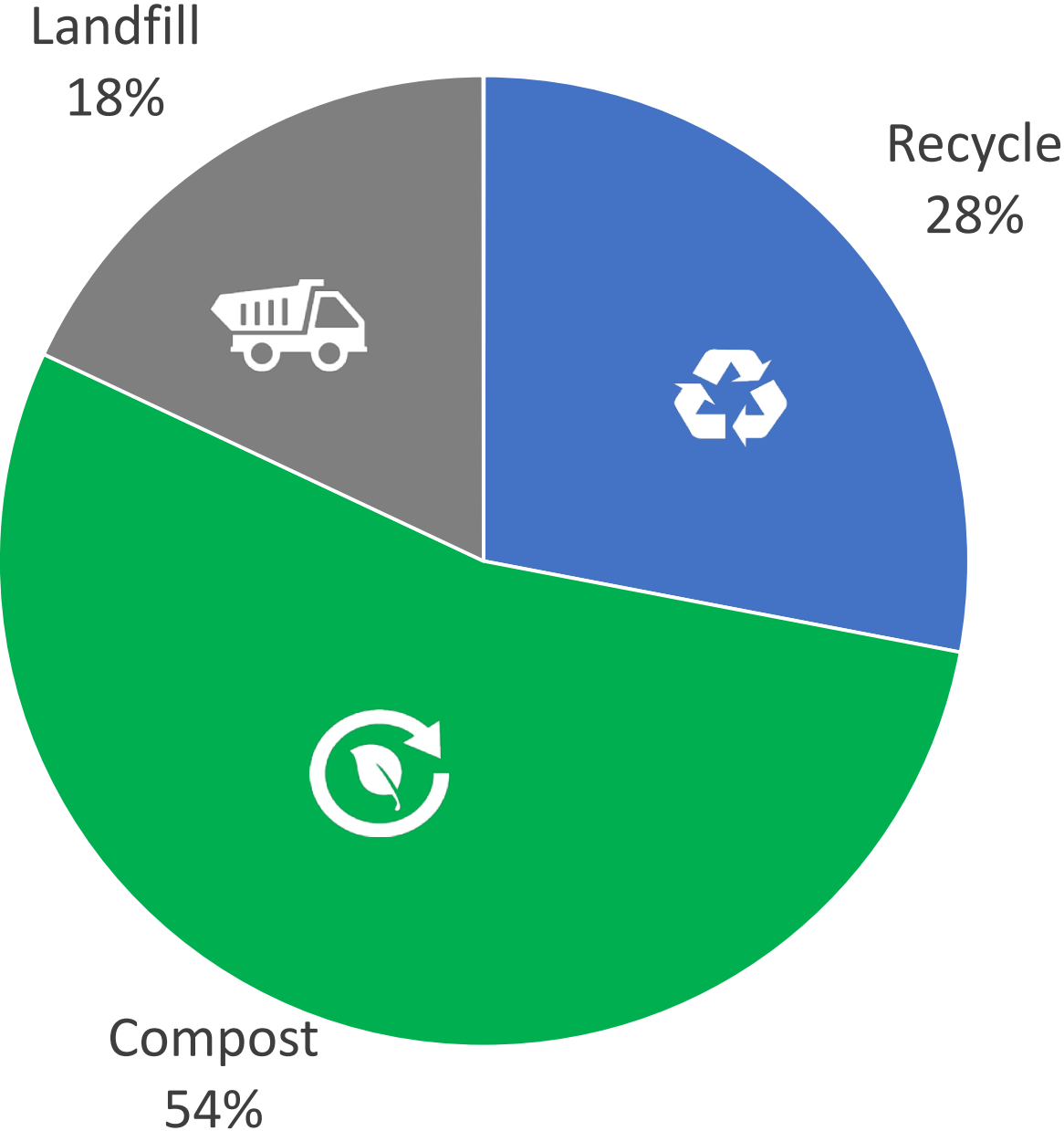


- Question 1: Level of knowledge about local and global water resources and the importance of water conservation BEFORE this lecture and lab.
- Question 2: Level of knowledge about local and global water resources and the importance of water conservation AFTER this lecture and lab.





# College of San Mateo Waste Audit Results April 2017





Landfill	Recycling	Compost
		
		
		
		

	
Garbage / Trash	Mixed Recycling

Starbucks uses **4 BILLION DISPOSABLE CUPS** every year...

...that means **ONE MILLION TREES ARE CUT DOWN** to make those cups...

...and **75 PERCENT** of them will end up in a landfill.

Each cup takes **500 YEARS OR MORE** to decompose.

**DO YOUR PART TO PREVENT WASTE- USE REUSABLE CUPS!**

Info collected from www.starbucks.com and www.earthday.org

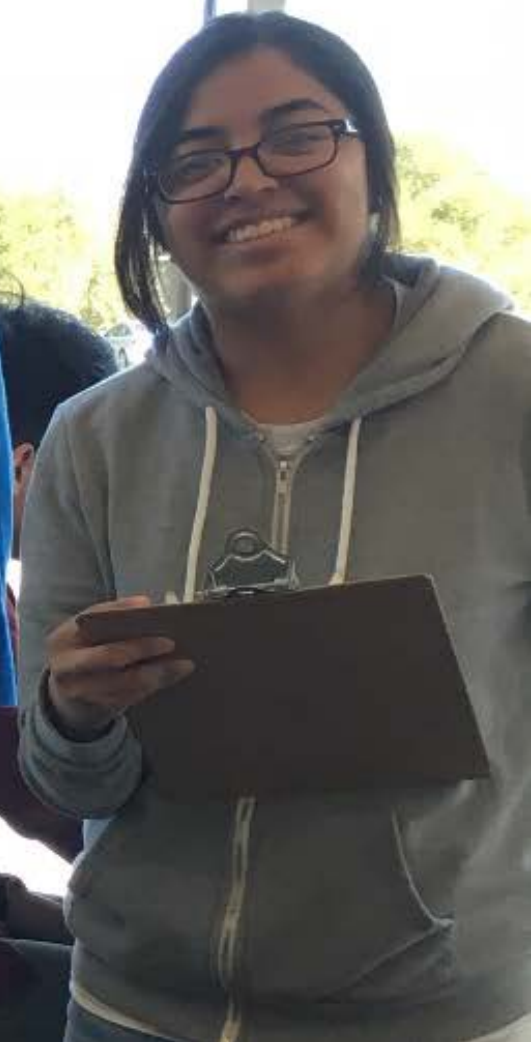


*Iced*  
**COCONUT MOCHA MACCHIATO**



GIVE









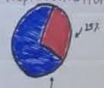
**DON'T BE TRASHY RECYCLE**

**Poster A**

1. To affect the behavior of individuals in a community, it is important to understand the reasons for their behavior. This is especially true for recycling.

For Poster A, 25% of students used the community, 10% of students used the community, 10% of students used the community, 10% of students used the community, 10% of students used the community.

**Data Representation**



■ 75% of correct waste disposal  
■ 25% of correct waste disposal

# SUSTAINABILITY THROUGH INFOGRAPHICS

Isabelle Tapia, Aiza Chynra Irua, Marisa Franke, Amani Kharroub

**Hypothesis:** If we display a visual infographic, people will be more likely to recycle. Our infographic will be more effective than a text-based infographic. We will know that our infographic is more effective if we see a higher rate of recycling in the community after we display it.

**Reasons:** Infographics are a great way to communicate information. They are easy to understand and they are visually appealing. They are also easy to share and they are easy to use.

The infographic was designed to be visually appealing and easy to understand. It was designed to be visually appealing and easy to understand. It was designed to be visually appealing and easy to understand.

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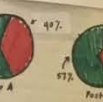
Interview



Visual Audit



Interview



Poster A



Poster B

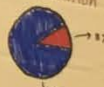


**Poster B**

1. To affect the behavior of individuals in a community, it is important to understand the reasons for their behavior. This is especially true for recycling.

For Poster B, 43% of students used the community, 10% of students used the community, 10% of students used the community, 10% of students used the community, 10% of students used the community.

**Data Representation**



■ 43% of correct waste disposal  
■ 57% of correct waste disposal







# GOAL 1: CURRICULUM INTEGRATION

Support the integration of sustainability into current and future curriculum.

## OBJECTIVES

	Year 1	Year 3	Year 5
Develop CSM Sustainability Network as collective of faculty that integrates sustainability projects, activities and experiences into their courses.	<p>Define criteria and actions for success of network.</p> <p>Develop Sustainability Network website and interdisciplinary Inquiry Group focused on classroom research.</p> <p>Create tools to operate Network.</p>	<p>Develop talking points about network.</p> <p>Develop relationships with community partners.</p> <p>Market the application process to prospective faculty to join the network.</p>	<p>Execute operating plan and recruitment.</p> <p>Begin creating capstone project/annual workshop in sustainability.</p> <p>Build a research document (data, metrics, model programs, job information).</p>



## SOCIAL IMPACT

According to the Community College survey of Student Engagement, "active and collaborative learning is linked with higher grader and course completion measures as well as long-term persistence and degree completion" (2007). Persistent collaboration within the CSM campus and greater community would promote student success and other positive outcomes.

## MEASURING AND REPORT SUCCESS

✓ STARS Credits EN 1-9

✓ LEED School as a Teaching Tool Credit



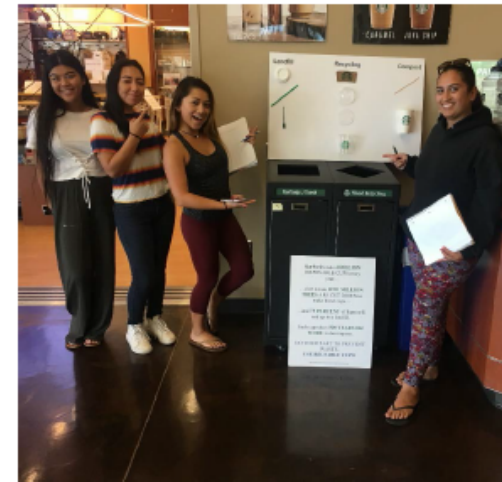


## GOAL 2: CAMPUS AND COMMUNITY ENGAGEMENT

Facilitate participation in campus sustainability efforts and awareness of sustainability issues; establish CSM as a cultural center for sustainability and social justice; and influence the behaviors of the campus community so they may embrace and champion sustainability at CSM, in the greater community and in their personal lives.

### OBJECTIVES

	Year 1	Year 3	Year 5
Provide sustainability professional development opportunities; Develop marketing materials for both digital and print media.	Host one event or advertising campaign per year.	Host two events or advertising campaigns per year.	Host 3 or more events or advertising campaigns per year.
Identify courses that may integrate sustainability into the curriculum.	Facilitate one "Campus as a Living Lab" course partnership per year.	Facilitate two "Campus as a Living Lab" course partnerships per year.	Facilitate three or more "Campus as a Living Lab" course partnerships per year.
Partner with CSM Cultural and Learning Communities for sustainability events on campus	Recruit Puente, Umoja, and Mana to all present at the Earth Day Celebration as exhibitors.	Partner with Puente, Umoja, and Mana for Earth Day and at least one other event.	Partner with Puente, Umoja, and Mana for Earth Day and at least two other events.



### SOCIAL IMPACT

Preparing students for a world that increasingly relies on highly sustainable systems will increase their rates of success. Understanding the benefits of sustainability across all sectors and industries will drive society forward as "innovating to zero", efficient, clean energy, and urbanization are among the top 10 mega trends in the next decade. Education that emphasizes holistic perspectives will foster an inclusive and adaptable campus culture within the College of San Mateo.

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### MEASURING AND REPORT SUCCESS

✓ STARS Credits EN 1-9

✓ LEED School as a Teaching Tool Credit



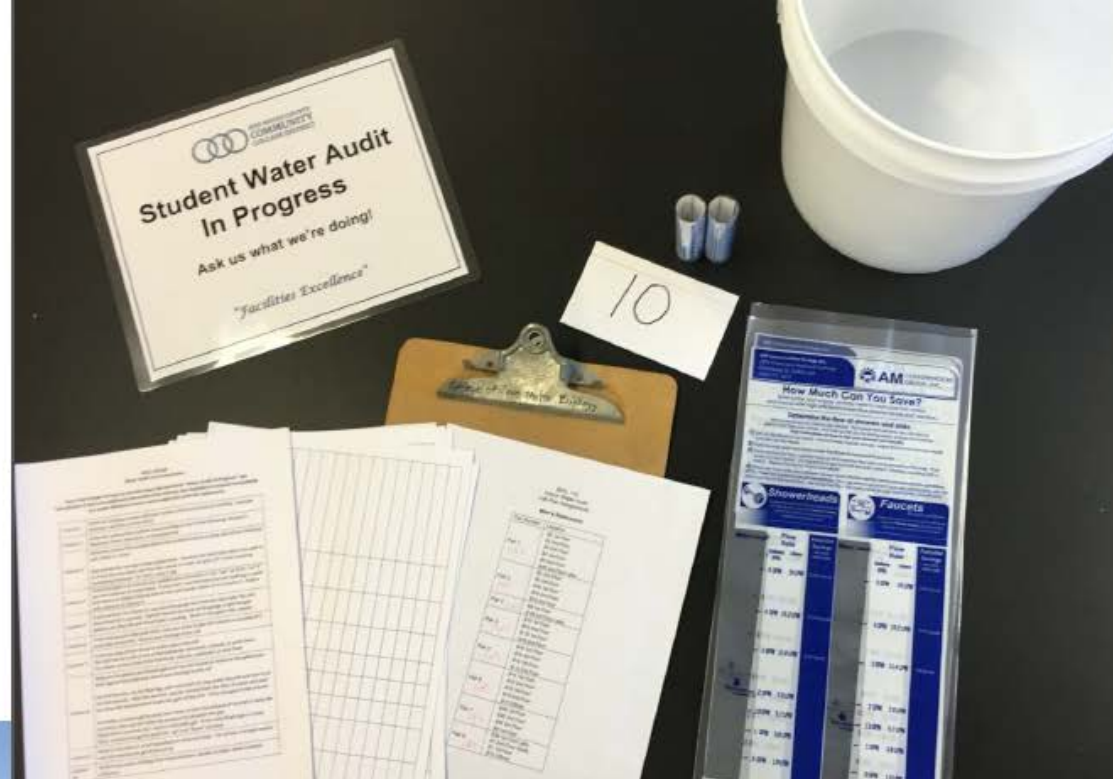


# GOAL 4: WATER SYSTEMS

Reduce freshwater consumption per square foot of building space by 50% by 2025 compared to 2013 baseline.

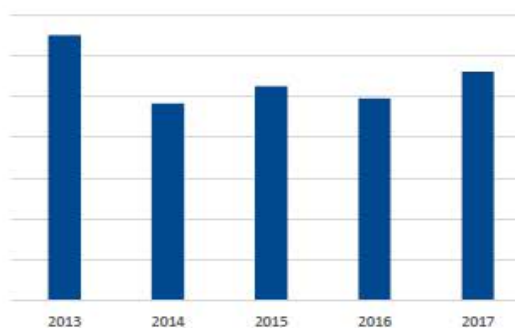
## OBJECTIVES

	Year 1	Year 3	Year 5
Maintain constant 25% reduction characteristics compared to 2013 baseline	Reduce water consumption by 30% compared to the 2013 baseline	Reduce water consumption by 40% compared to the 2013 baseline	Reduce water consumption by 40% compared to the 2013 baseline
Normalize per square foot			



## SOCIAL IMPACT

CSM Water Consumption 2013-2017



College of San Mateo is committed to alleviate the economic and ecological risks of water resource availability in the Bay Area. Over the past decade, CSM took early steps to reduce water use through: natural turf replacement on athletic fields, adjusting irrigation schedules, implementing weather-based irrigation controllers, planting of native landscaping, and informational signage. Recently, CSM has taken this one step further by combining water efficiency and curriculum by utilizing the campus as a living lab to conduct water audits and collect a native plant inventory. Students gain hands on experience while identifying water efficiency opportunities for CSM.

## MEASURING AND REPORT SUCCESS

✓ STARS Ops Points 22 and 23

✓ LEED Water Category

✓ Energy Star





# GOAL 5: ZERO WASTE

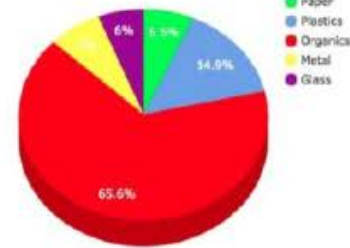
Accomplish Net Zero Waste by 2025. Engage students, employees, and the community in goal setting, challenges, and accomplishments. Report at established intervals on progress and waste diversion lessons learned.

## OBJECTIVES

	Year 1	Year 3	Year 5
Reduce waste production	Establish waste diversion baselines and reduce overall waste by 10%	Reduce overall waste by 15% compared to baseline	Reduce overall waste by 25% compared to baseline
Increase waste diversion	Increase diversion to 75%	Increase diversion to 85%	Increase diversion to 95%



Materials That Could Have Been Diverted from Landfill



TOTAL OF 83 POUNDS COULD HAVE BEEN DIVERTED (82% OF WHAT WAS SORTED!)

## SOCIAL IMPACT

College of San Mateo is committed to doing their part to divert waste hauled to the landfill by offering indoor and outdoor recycling. In compliance with Assembly Bill 1826 (Mandatory Commercial Organics Recycling), starting in Spring 2017 composting will be introduced campus wide. Education and engagement are vital to waste diversion efforts, therefore, CSM students in the Botany Club, Honor's Program, Fine Arts Department, and others are working together to educate the campus community.

## MEASURING AND REPORT SUCCESS

✓ STARS Ops Points 19, 20, 21

✓ LEED Waste Category

✓ Energy Star

# Next Steps

1. Feedback
2. Final draft review
3. Board Approval



# Thank You!

Questions?

Contact:

Hilary Ego

[egoh@smccd.edu](mailto:egoh@smccd.edu)

Next CSM Sustainability Committee Meeting:

Wednesday, April 11 in 10-401A, 2-3 PM

CSM Earth Day April 18<sup>th</sup> in Building 10 from 11AM – 1PM!