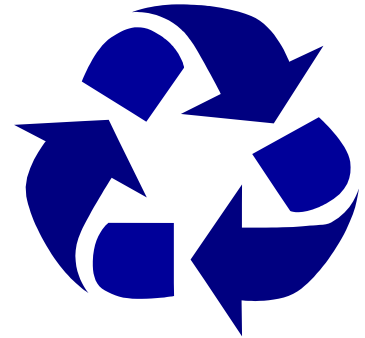


**Xavier University
Recycling Report and
Recommendations
November 28, 2023**



Study performed by

**Bob Gedert, Adjunct Professor, Arts and Sciences Department
with assistance by**

**Savannah Mays, senior majoring in Economics, Sustainability, and
Society; and**

**Luke Frigo, senior majoring in Environmental Science with a Peace
and Justice Studies minor.**

**Special thanks to Tim Sundrup, Associate Director of Mission and
Identity/University Sustainability Coordinator**

Xavier University

Recycling Report and Recommendations

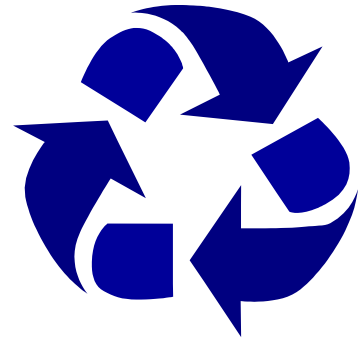


Table of Contents

<u>Section</u>	<u>Page</u>
Introduction	3
Executive Summary	3
1. Waste and Recycling Audit	6
2. Interviews	9
3. Exemplary Examples of Recycling on the XU Campus	15
4. Why Recycle on Campus	18
5. Special Areas of Concern	20
6. Recommendations	20
7. Prioritizing the Recommendations	23
8. Recommended Container Styles	24
APPENDIX A: XU Campus Resources Available	25
APPENDIX B: Local Resources Available	27
APPENDIX C: National Resources Available	30
APPENDIX D: Economic Resources	32
APPENDIX E: Waste and Recycling Audit – Attached Spreadsheet	
APPENDIX F: Container Styles Currently On Campus – Attached Doc	
APPENDIX G: Recommended Container Label – Attached Document	

Introduction: Recycling & Trash Audit of the XU Campus

This study of Xavier University Campus trash disposal and recycling activities was submitted to the Associate Director of Mission and Identity/University Sustainability Coordinator, with the intended purpose of presenting these findings to the Laudato Si Committee Steering Committee. This campus-wide audit was conducted by Bob Gedert, Adjunct Professor of Arts and Sciences Department; Savannah Mays, senior majoring in Economics, Sustainability, and Society; and Luke Frigo, senior majoring in Environmental Science with a Peace and Justice Studies minor.

The study aims to find ways to improve the visibility and effectiveness of Xavier's campus recycling activities. The goal is to move the campus from an "invisible" recycling program to a cultivated comprehensive recycling plan that would set a high recycling standard for all sectors of the Xavier campus. To achieve this goal, we designed and moved forward with a comprehensive review of all trash and recycling collection activities and selected individuals to interview regarding the existing comprehensive collection program that involves the participation of the Xavier University Administration, Staff, Faculty, and Students.



The methodology used in this investigation was an observational study of the campus. Specifically, the team walked the campus, documenting waste and recycling receptacles, tracking the path of waste flow, and discussing current waste flows and methods with students, faculty, and staff. The results are summarized below.

The study included every building of the entire Xavier Campus, inventorying the trash disposal and recycling activities. This involved five significant activities:

- A walking inventory of all campus recycling, organics, and trash collection receptacles was conducted from August 3rd through August 16th.
- A tour and inventory of all "back of the house" recycling, organics, and trash collection (i.e., physical plant activities, vendor activities, loading docks, etc.)
- Interviews with staff collecting and administrating campus-wide recycling, organics, and trash collection.
- Interviews with select staff, faculty, and administration who can offer their opinion and suggestions for improvements. The interviews were held on August 30th and September 1st.
- Collecting data from the past several years regarding recycling, organics, and trash collection volumes.
- The campus recycling report was finalized with observations and recommendations, possible grant funding sources, and a PowerPoint presentation.

Executive Summary

The goal of this study is to move the campus from an "invisible" recycling program to a cultivated comprehensive recycling plan that would set a high recycling standard for all sectors of the Xavier campus. To achieve this goal, we designed this campus study to research how the staff, faculty, and students were utilizing and reacting to the current recycling and trash

collection program. Our primary objective was to seek out reasonable means of improvement of the standard array of services provided, recognizing the limited economic resources available.

The study began with a physical inventory of assets utilized to collect recyclables and trash on campus. This is the "face" of the campus trash and recycling collection program. A walking audit of the campus yielded a comprehensive spreadsheet of interior and exterior waste and recycling collection services (Appendix E). The quantification of interior trash and recycling containers revealed an imbalance of containers, a more significant level of trash containers than recycling containers.

Best practices from successful campus recycling programs display an equal number of recycling containers to trash containers, paired side-by-side. With recycling containers displayed side-by-side with trash, it becomes apparent that the visual choice to the individual is how to "dispose" of the item in their hands in a convenient manner. When containers are separated, the individual will utilize the nearest container, regardless of the labeling, causing significant contamination issues.

The study also revealed significant variations in the labeling of containers on campus. As we sought out the experiences and opinions of staff regarding the on-campus recycling program, the lack of consistent labeling was the most common response we received, confirming our visual observations. Again, best practices from other campus programs suggest the consistent and simplistic labeling of interior and exterior containers. The Recommendations section addresses the labeling concerns raised in this report.

Throughout the formal interviews and the informal contacts with staff, as we asked for opinions, we heard of the strong desire to invest more in the campus recycling program. Those offering advice wanted to see a successful recycling collection program. However, many expressed concerns and desired changes. These issues are presented in the Interview section and addressed in the Recommendations section.

In addition to the campus audit, we discovered some hidden gems that deserve praise. We note the Exemplary Examples of Recycling on the XU Campus section of this report. Xavier University hosts the Montessori Lab School on Dana Ave.- a hidden gem on the XU campus and a service to the community. The Montessori students collect specialized recyclable items taken to the Cincinnati Recycling and Reuse Hub. The Montessori Lab School Recycling program is an exemplary example of the recycling spirit on campus. May this example of recycling enthusiasm spread campus-wide!

Xavier also hosts the XU Office Swap, a program aimed at reducing office waste and exchanging and providing supplies for free on campus. We also note the NEXUS Community Garden and Urban Farm, located on Xavier University's campus and managed by Belamine Chapel in partnership with Brick Gardens. In addition, Xavier University was selected as a 2023 Laudato Si Community. All these programs are highlighted in the Exemplary Examples of Recycling on the XU Campus section of this report.

This report offers 29 recommendations for the enhancement of the campus recycling programs. We recognize the University budget conditions, requiring the need to seek additional funding resources. It should be recognized that an enhanced university environmental platform will increase student enrollment as students look for climate-friendly campuses to further their education studies.

These recommendations are aligned within the X200 2023 Strategic Plan Cura categories. The Top 12 ranked recommendations are:

Cura Propria: Building a profound culture of belonging and inclusive excellence

1. * Create a Replacement schedule to replace exterior and interior trash and recycling containers on campus with one design, color-coded and more visible than currently utilized containers. See the recommended containers later in this report. Funding sources are available through state and federal grants.
2. Provide recycling training at Maressa Orientation. Manresa is a great opportunity to educate first-year students on recycling opportunities and create higher expectations on recycling habits. Xavier Student Sustainability (XSS) could assist.
3. Provide campus-wide education regarding recycling opportunities, including the reconstruction of a website explaining the various features of recycling and waste reduction on campus.

Cura Apostolica: Operational strength and effective stewardship

1. * Relabel every recycling and trash bin on campus for clarity and consistency. Labels should be clear in language and offer pictures of items acceptable for collection. Funding grants are available for the labels, and student leadership can assist in the relabeling.
2. Establish a quarterly custodian contractor training program to develop the proper collection standardization of contractors working for the Office of Physical Plant.
3. * Establish and phase in a Large Venue Recycling Program to include the events at the Cintas Center and the Athletic Program. For every ton of material recycled, there is a more significant savings from trash collection than the recycling cost, as Rumpke noted. Funding may be available in the Beverage sales contract. Research the successful models of the University of Cincinnati Athletics Recycling Program (Rumpke Recycling) and the Loyola University Athletics Recycling Program.

Cura Studiorum: Striving for excellence in innovation and academics

1. * Research capital investment and funding sources – State, Federal, and Private Foundation grants for recycling infrastructure and education.
2. Develop an annual waste and recycling report. Compile recycling and trash collection data for educational use and yearly reporting.
3. Require an annual diversion calculation when renewing or negotiating the subsequent recycling and trash contracts.

Cura Personalis: An unsurpassed campus experience that transforms the mind, body, and spirit

1. Establish a campus administrative order that requires recycling all paper. All offices on campus generate paper waste, and the audit spotted large quantities of high-quality office paper in the waste stream. Many campus offices lack blue recycling bins to collect office recyclables, including office paper.
2. Establish a campus administrative order that requires recycled-content paper. (Staples and Office Depot offer 100% recycled content paper for approximately \$83 for ten reams) Utilizing recycled content paper helps support the domestic recycling markets to rebuild and consume our paper recycling. (Specifications: 100% recycled content, 20 lb copy paper, 92 bright), 8 ½ x 11 and 8 ½ x 14)

3. Establish photocopying guidelines that encourage the use of double-sided copies. Pre-program desktop computers to send print orders as double-sided unless otherwise specified. Discourage excessive and unnecessary copying of materials.

1. Waste and Recycling Audit

A walking audit of the campus yielded a comprehensive spreadsheet of interior and exterior waste and recycling collection services (Appendix E). Although the visual waste audit was comprehensive, only a few select buildings (privately operated) were inaccessible for the audit. In addition, the audit required a visual of every classroom and office, with some locked. As such, we made accurate counts of classrooms and offices with a fair estimation of waste receptacles. As a result of this estimation, some waste and recycling containers may not be accounted for in this audit. We believe the numbers presented are 97% accurate based on statistical analysis.

In addition, new trash and recycling collection standards were issued on September 1st, after the official audit. These new cleaning standards have altered the number of containers placed throughout campus; however, the new collection standards will not affect the observations and recommendations of this report.

Observations and Findings

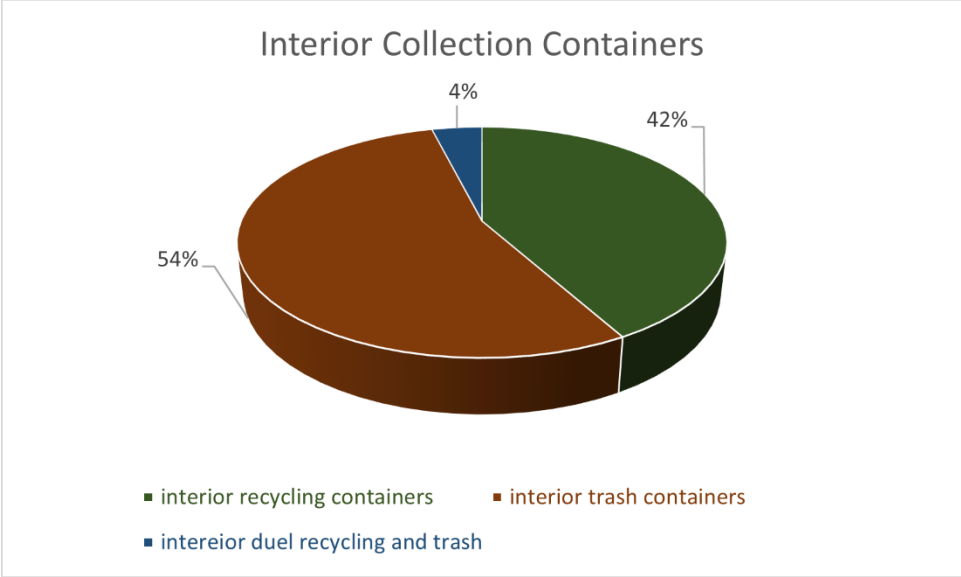
A full scope of the waste and recycling audit can be found in Appendix E (excel spreadsheet). A summary of the findings are as follows:

4,032 interior waste and recycling containers were audited, representing small 10-gallon office receptacles up to 96-gallon larger waste cans. Of those interior containers counted, **1847** interior recycling containers were audited, ranging from 13 gal tall containers to 32-gallon round containers converted to recycling. Thirty-three (33) recycling containers were restricted to paper collection only and had a sleeved slotted top to indicate paper only. We counted 14 paper shredders and assumed that the paper shreds were recycled by the company that services the shredders. (There may be additional paper shredders in the financial and confidential areas of the University.) 159 of the interior recycling containers served a dual purpose, collecting both recycling and trash (Note labeling recommendation later in this report).

We counted **2185** interior containers solely dedicated to trash collection. As noted above, an additional 159 containers served a dual purpose, collecting both recycling and trash.

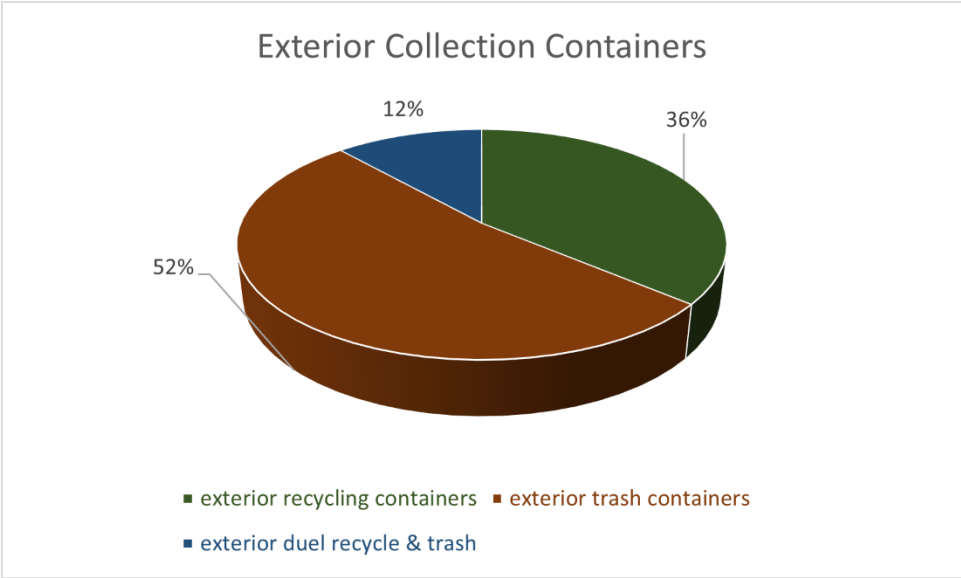
54% of interior collection containers were for trash. In comparison, **42%** of interior collection containers were dedicated solely to recycling, and **4%** of interior collection containers served a dual purpose of collecting trash and recycling (with labeling challenges).

A summary of the interior trash and recycling containers is summarized in the chart below.



As a snapshot of the exterior containment, there were **155** trash containers, from 20 to 40 gallons, throughout the campus, primarily centered around the entrances of buildings, parking lots, and courtyards. Fifty-six (56) exterior containers were for recycling only, representing **36%** of the overall exterior containers. 81 (**52%**) exterior containers served for trash collection and 18 (**12%**) for dual collection of recycling and trash.

A summary of the exterior trash and recycling containers is summarized in the chart below.



The interior waste collection involves more than 20 different container styles. The exterior waste collection involves more than 10 different container styles. A sampling of the waste and recycling containers found on campus is displayed in Appendix F. There were some interesting observations by the team in the use of the receptacles throughout campus:

Our visual waste audit notes approximately 41 paper-only collection containers, usually designated in a slender blue container with a slotted top. In addition, we observed 51 cans and bottle-only collection containers designated with a singular hole opening. These containers are serviced through Facilities with the recycling collection route. However, office staff questioned

the frequency of pickups and had a variety of responses, indicating confusion over the pick-up schedule. In addition, most offices did not have paper recycling services. Our survey noted that these containers are poorly labeled, and staff is uncertain what recyclables can be collected in these specialized containers.

We also observed cardboard collected at various locations around the campus. Although not collected from students and general staff, cardboard is recycled from the general operations of the university, and vendors on campus are encouraged to recycle their cardboard discards. Areas where we observed active recycling of cardboard include the HUB building, Kuhlman Residence Hall, the Village Free Store, Innovation Center Book Depot, the Justice Center Hoff Dining Commons, and the McDonald Library. There are likely more numerous areas of the campus where cardboard is generated and recycled, but this was not observed on the days of this walking audit.

Although beverage containers represent only a tiny percentage of the observed recycling flow in our audit, the actual volume of beverage containers is much higher. Many cans and bottles are disposed of in the classroom trash containers as students enter their classes. As of September 1st, the newer collection rules have removed most classroom containers, which may be advantageous for collecting beverage containers – if there are convenient recycling containers in nearby hallways. This is important as there may be inadequate *convenience* in making beverage recycling containers available to students and staff.

As noted above, changes were made to the quantity and placement of containers in private areas, including classrooms, study areas, and staff offices. Beginning on September 1st,

The collection of trash and recyclables from private areas was discontinued. The Office of Physical Plant memo notes that “daily collection of trash will be done from central locations in buildings, offering a more efficient way for the cleaning staff to collect trash and recycle. Individuals may keep their trash and recycling cans, but everyone will be responsible for taking their trash and recycling to the central location in their area. Can liners, if desired, are available from the building coordinators. Upkeep of the individual containers will be left up to each individual.”

The changes have affected the physical count and distribution of the trash and recycling containers throughout the campus since the audit was performed. However, this change does not influence the final recommendations of this report. We have reflected on the changed distribution and service levels before finalizing our conclusions. In addition, we recognize that the change in service levels was precipitated by careful considerations of the University budget, a strong concern as we consider the recommendations for this report.

The statistics gathered in this report cannot gauge the campus's accurate recycling and diversion percentages because the service frequency per container was not audited. A complete waste stream composition study was not performed, as that was not the intent of this study. The study's objective was to find ways to improve the visibility and effectiveness of Xavier's campus recycling activities. The goal is to move the campus from an “invisible” recycling program to a cultivated comprehensive recycling plan that would set a high recycling standard for all sectors of the Xavier campus.

2. Interviews

To seek out the experiences and opinions of staff regarding the on-campus recycling program, we formally interviewed eight (8) campus employees. The following is a sampling of the comments and suggestions we heard from the staff interviews. These comments have led to numerous recommendations within this report.



What are your current impressions and observations of the Xavier Campus Recycling Program?

More/Better Recycling Education

- More recycling education is needed. Contamination is discouraging.
- Need for improvement in staff and faculty user education.
- 25% new students every year – we haven't kept up with the transition
- Need campus-wide specialized targeted messages
- Bins available, but additional info on recycling is needed. Address why we need to recycle.
- There are a lot of misconceptions among staff and students regarding the recycling program

Container Labeling

- Labeling seems to make it difficult, especially with different bin styles – too many receptacle types
- Label containers that can be recycled
- The proper labeling needs to be more prominent on cans across campus.
- Labeling bins should reduce contamination.
- Need more labeling – partner recycling containers with trash containers – Dummy-proof recycling

Contamination Issues

- Recycling bins have food contamination issues
- Contaminants a problem
- Many recycle bins are primarily used for trash.
- Recyclables going straight to trash – seen it directly with contract workers
- I witness recycling being placed directly into the trash
- In Schmidt Bldg, I have observed that the cleaning crews keep recycling and trash separate, but they dump everything in one bag in Cohen.
- Physical Plant staff treats it as a two-can system, while the contractors may be treating it as a one-can system at times with two-liners. It is upsetting to hear stories of recycling being combined with trash.

Other Comments

- Needs to be a Top-Down priority – currently, we are caboose-led
- The campus can do a lot better.
- Efficient in operations – central trash collection and process is efficient.
- I have seen miscommunication about the understanding of the liner colors paired with the type of waste
- I kept the paper separate and asked why, with no answer given.
- We need to get “Xavier Buy In” from Chartwell (cafeteria) and cleaning contractors, as students and staff have daily contact with these contractors.
- New Sept 1st rules might offer better efficiency.
- Walking trash/recyclables to the central area may cause grumbling and a transition – may create a pathway for rethinking waste flows while walking trash.

What changes would you recommend to the Xavier Campus Recycling Program?

Education / Outreach Changes

- Focus on students – Residence Halls
- Manresa is a great opportunity for recycling training of incoming students – Create higher expectations on recycling habits
- Maressa Orientation provides an opportunity to educate first-year students on recycling opportunities
- Learn how to do it right from the other 27 Jesuit Universities
- Move from central trash to recycling messaging – change habits – flip the mindset – changing human behavior – will take time
- It needs to be both mission-driven and with practical education.
- People need to be assured that their choice of bin matters.
- Need clear pictures of the recycling bins – Is it separated from mixed recyclables? Not known by staff. Need clear messaging – Need better training of collection crews
- Clearer messaging on recycling – better education – posters – Need more information about what is recyclable
- Make recycling more available to students – resident halls need more recycling education
- Need messaging through email – More about recycling, care more, education action plan
- Need recycling signage and better bin labeling.
- Consider student's experience with Care for the Common Home
- Tie into Laudato Si Action Plan – Tie into Ignatian Gifts – put wall poster near collection bin.
- Change the thoughts of people – motivations. Through education

- Need marketing campaign – passive signage and messaging and Maressa messaging
- Need recycling and reuse and waste reduction messaging on posters
- Need messaging at printers to avoid printing meeting agendas, book chapters, handouts, etc – too much getting printed
- Encourage an end-of-semester report of how well we did in recycling collection
- Road to Xavier – Know the details of recycling

Program / Services Changes

- Move In/Out opportunities
- Flipping the script – need more recycling opportunities – good growth potential – but through baby steps
- Program needs better visibility – regular reporting out of program statistics – Affirmation of recycling results – example of shred day and report of pounds collected and recycled.

Physical / Structural Changes

- The recycling program should be more extensive than it currently is. More action needs to take place.
- There should be recycling opportunities at athletic events.
- The cleaning folks need to execute—and project their partnership back to the users.
- Flip messaging – need more extensive recycling containment rather than trash
- We could possibly make the transition to use larger recycling bins and smaller waste bins. This may take some time to get used to, but it could have a positive long-term change.
- How can we work with ResLife on improving recycling service?
- Offices are covered, but we may need better coverage at the dorms.

What additional recycling programs do you wish to recommend for the Xavier Campus?

- Cardboard throughout the campus
- Fabric and clothing
- Left-over paint (recycle and/or reuse)
- Fluorescent ballasts, fluorescent tubes, all light bulbs
- Batteries, cell phones, unused tablets and computers (e-waste)
- Printer and toner cartridges
- e-waste collection campus-wide – recognizing budgetary constraints. There is a cost with e-waste collection programs.
- Collect Terra-cycle items (collected through Cincinnati Recycling and Reuse Hub)
- Add education first before we add new material.

Do you have any thoughts on Food Waste collection?

- Plenty of food waste in the cafeteria – kitchen food waste and plate scrapings
- Composting service needed – Nexus Services could benefit from food-waste composting
- Clean Plate Club – Educate regarding methane gas emissions from food waste
- Show off the average daily food waste generation at the cafeteria



Thoughts on Reuse and Waste Reduction

- We should be limiting the amount of waste we produce while recycling more often
- More reduction and reuse on campus
- Promote a reuse culture
- Eliminate plastic cups – begin a reusable refillable water/soda canister program with the campus food vendors
- Reusable cups throughout campus
- Promote Office Swap – Surplus Supplies – Reuse – Collection Boxes of donations for reuse
- Office supplies website: XU Office Block
- More purchasing opportunities with recycled content
- Move Out/Move In – Previously tried Restore Truck with Habitat for Humanity and Salvation Army. There must be a way to manage the waste.
- Utilize the services of Mathew 25
- Utilize the services of the Cincinnati Recycling and Reuse Hub

Thoughts on Branding the Recycling Collection Program?

- More Xavier (+X symbol), More Recycling (recycling symbol)
- More Xavier, "Less Waste"
- More Xavier, Care More
- Toss to the Marketing Department
- Learn how to do it right from the other 27 Jesuit Universities
- More Earth-friendly? But I'd let the marketers do the marketing
- Xavier is unique – utilize Jesuit value themes

Additional Comments?

- Change in thinking - All our actions have consequences
- The cost of NOT recycling is an unknown – we are hurting the Earth through disposal – impacting climate change
- Offer and train "Recycling Champions" or "Recycling Ambassadors"

- Montessori School collaboration with campus
- Bringing in non-profit organizations to run the possible waste drives.
- How can we bring recycling into the Jesuit mission of the university, into our lives, and overall being a part of recycling at Xavier?

Additional Comments

In addition, as we canvassed the campus performing the container inventory, we also encountered staff and faculty and received comments. The following is a sampling of the comments and suggestions we heard on our travels throughout the campus.

- He lives in Khulman and doesn't like how the dumpsters are filled with things that can be reused and are being thrown out. He is also concerned that things aren't being sorted.
- "The bins were removed from rooms and entries and replaced with a dumpster in the parking lot." (referencing Sycamore House)
- "The only thing in the teacher's office/lounges are small black bins with no labels." (referencing Lindner Building)
- Wants to know where the recycling goes
- Wants social media at XU to be used for recycling awareness
- "As a community, we have a responsibility."
- "I observe a lot of cardboard from vendors being tossed into trash dumpsters. Why can't we place cardboard collection dumpsters on campus for the vendors?"
- "Cintas offices and events do not have recycling, even during game days. Everything is tossed into trash dumpsters."
- Concern for mixed messaging for recycling – need a singular message and better labels
- "Consider promoting the Do Nothing Project" to promote less waste – waste reduction and reuse before recycling."
- "Give staff better instructions on the use of the recycling program."
- "No one has told us what can be recycled."
- "We place our recyclables in the office trash cans because they did not supply us with recycling containers."
- "We place our trash in the office recycling containers because they did not supply us with trash containers." (Observation note: the last two comments were made from faculty offices on the same floor of Smith Hall)
- "We do not know what plastics to place in the recycling containers."
- "I have seen the janitorial staff collect trash and recycling and pour them into one container." (The individual was uncertain if observing a contractor or staff.)
- "I take my office recyclables home to ensure it really gets recycled."
- "How much gets recycled University-wide? I would be interested in an Annual Report."



The staff and faculty comments are thoughtful and revealing observations and have been impactful in developing this report's recommendations. We thank everyone who has been generous with their time and offered their thoughts and suggestions.

Rumpke Recycling Interview

A Rumpke Recycling representative was interviewed for this report. Rumpke services the campus with trash and recycling dumpster service via a long-term contract with the university. The Physical Plant staff provides the on-campus pickup of recycling and trash throughout the campus and deposits it in the nearest Rumpke dumpsters. The dumpsters are serviced on a regular schedule throughout each week, depending on the fill rate of each dumpster.

The Rumpke trucks also serve surrounding businesses and apartment complexes, so gathering specific statistics and weights of outgoing trash and recycling from the campus is impossible. Therefore, we cannot calculate a diversion rate for the campus at this time due to current business practices. This can be addressed through a contractual change in a future contract with an annual diversion rate assessment.



The following are some relevant notes from the Rumpke representative interview:

- The campus-wide recycling contamination rate is approximately 13-15%
 - The best way to combat contamination and confusion is by tagging containers with picture guides and consistent labels
 - Xavier has not been IDed as having a higher-than-average contamination rate
 - Food contamination common in the residential areas
 - Water and soda bottles with liquid still in them
 - Bottles with wrappers inside of them (or other trash stuffed inside)
 - Pizza boxes – remove pizza and grease-stained cardboard
 - Single-use bags – snags equipment
 - Batteries - Fire hazard
 - Textiles – Not collected by Rumpke - Take to Hub
 - Scrap metal – not collected by Rumpke
- Solutions and approaches to increase recycling
 - Financial viewpoint
 - There is a ~25% franchising fee for trash across the city, so increasing true recycling that decreases trash leads to cost savings
 - Education is key
 - Show what goes to landfill and what goes to recycling with pictures
 - Always look to make things easier and closer
- Location and Labeling

- 1:1 ratio of trash to recycling where both bins are next to each other and clearly labeled (this was noted as a key point)
 - Always have them next to each other so that recycling doesn't have to be searched out
 - Picture guides
- Cintas Center
 - Mostly comes down to who is cleaning the bowl after games
 - If that staff is trained to have to gather both trash and recycling bags there, it is generally successful
 - Referenced success with volunteer green teams cleaning up after Bengals, Reds, and UC games
 - Suggested connecting with the UC Sustainability Office to ID what has worked for them
 - Advertising
 - There is a message about recycling before Reds games and before the 7th inning
 - Rumpke is a sponsor of Xavier Athletics and has an advertisement
 - As changes are made to Cintas, that advertisement could be tweaked to help increase awareness/education

3. Exemplary Examples of Recycling on the XU Campus

Recycling Station at the Xavier University Montessori Lab School

Xavier University hosts the Montessori Lab School on Dana Ave. - a hidden gem on the XU campus and a service to the community. Xavier University Montessori Lab School was established in 1966 as a demonstration project to reflect the philosophy and teaching methods of the Montessori Teacher Education Program at Xavier University. The program has grown over the decades and currently serves 150 students.

Specific educational practices common to Montessori programs include multi-age groupings, beautiful and carefully designed learning environments, emphasis on teacher observation and research, a focus on the development of the whole child's selection of materials from within an appropriate range, and consistent social and behavioral guidelines and expectations. A unique learning service provided by the caring teachers of the Montessori Lab School is a centralized area for collecting recyclable items. The designated collection area comprises a wood cabinet with 12 openings containing 12 baskets. Each basket is well labeled on the type of product or packaging that can be placed in it. Once a week, a "Recycling Ambassador" (volunteer parent) collects the baskets and drives them to the Cincinnati Recycling and Reuse Hub for recycling or reuse. The empty baskets are returned by Monday morning.



The Montessori Lab School Recycling program is organized and supported by teachers Tori Pinciotti and Donna Hutchinson-Smyth, with the support of the Head of School, Ericka Eicholz. Tori and Donna note that 8-10 families are directly involved in support of the recycling program, and all the students bring home periodic recycling messages to their families.

A sampling of items collected by the students include:

- Granola Bar Wrappers
- Drink Pouches
- Straws and Bread Twist Ties
- Coffee Bags and Netting
- Kroger Brand packaging
- Writing or School Tools
- Oral Care items
- Used or Unused Cutlery
- Styrofoam
- Tinfoil & Metal
- Entenmann's packaging
- Taki Brand, Late July Brand packaging



In addition to these specialized items taken to the Hub, the students also collect the traditional recyclables on the Rumpke recycling list and place those recyclables in the campus-supplied recycling bins.

As we inventory the recycling habits across the campus, we offer the Montessori Lab School Recycling program as an exemplary example of the best example of the recycling spirit on the campus. May this example of recycling enthusiasm spread campus-wide!

NEXUS Community Garden & Urban Farm

The NEXUS Community Garden and Urban Farm is a collaborative learning and garden space located on Xavier University's campus and managed by Belamine Chapel in partnership with Brick Gardens.

The mission is to serve as a collaborative, growing space that brings together diverse stakeholders from St. Robert Bellarmine parish, Xavier University campus, and neighboring communities to develop genuinely transformative relationships, address food insecurity and hunger, educate about the importance of urban agriculture, and promote sustainability.

The vision is to grow a culture of encounter and mutual belonging amongst all participants, centered on organic gardening, healthy food, environmental justice, and our sacred connections to one another and the Earth.

The NEXUS Community Garden is located east of the C-2 parking lot and across the street from the Health United Building.

The NEXUS Community Garden is an exemplary activity involving countless volunteer hours, land dedicated and cultivated by XU faculty, staff, and community organizations, and an excellent learning experience for the local community youth. During our conversations with numerous staff and faculty, many suggested that a cafeteria food waste collection program could support the NEXUS Community Garden.

<https://www.xavier.edu/green/campus-initiatives/urban-farm>

Xavier University was selected as a 2023 Laudato Si Community

The Archdiocese of Cincinnati recognized Xavier University and Mount Notre Dame High School as [2023 Laudato Si Communities](#) at its Our Care for Creation – Feast of St. Francis, new Laudato Si' Communities, and intro to *Laudate Deum* Celebration on Wednesday, Oct. 25th. University Sustainability Coordinator Tim Sundrup accepted the award on behalf of the university.

The Archdiocese Catholic Social Action Office and Care for Creation Task Force annually recognize Catholic parishes and schools that live out Pope Francis' Laudato Si' message of caring for God's creation. To earn this designation, parishes/schools have:

- Complete a facilities assessment and meet a target score for environmental stewardship practices
- Have 10 percent of its member-households complete their own household assessment
- Host or provide a Care for Creation formation program to parishioners/students

This recognition is a step on the road toward living out the XU Laudato Si Action Goals as outlined at www.xavier.edu/green

XU Office SWAP – Campus Reuse Program

XU Office Swap is a program aimed at reducing office waste and exchanging and providing supplies for free on campus. The program offers University faculty and staff opportunities to swap new and gently used office supplies instead of buying new ones. There is no cost for any of the items. This initiative not only helps to save valuable university resources but also creates a circular system for supplies and reduces the amount of waste sent to landfills.

In the first year of the XU Office Swap over 1,000 items were salvaged and 450 items were repurposed, resulting in thousands of dollars in savings.

Faculty and staff can access the online catalog of supplies through the Xavier Buy system.

For her work in starting the XU Office Swap, Cathy Baker received the Brian Yeoman Sustainable Procurement Award from the National Association of Educational Procurement. Cathy stated, "The nomination was quite a surprise! It makes me feel like a valued member of the team," she said. "I am so very honored to be recognized for my work on XU Office Swap. Not only does sharing our resources save money for the university, but it reduces the waste that goes into landfills. We need to all work together to create a healthy living environment for the generations of the future. I believe the sustainability efforts across campus truly represent All for One. We are in this together."

In addition, student Luke Bernsen assists in collecting and swapping office supplies and equipment throughout the campus. For more information on XU Office Swap and other Laudato Si's sustainability initiatives, see Xavier.edu/green.

Greening Your Office – Resource Guide

The XU Greening, Your Office Resource Guide is an online guide with tips on reducing, reusing, and recycling for campus offices. The guide can be accessed at:

<https://www.xavier.edu/green/documents/greening-your-office-guide.pdf>

4. Why Recycling On Campus

College campuses across the nation have the potential to play an enormous role in community environmental stewardship.

- It's just plain "Smart Economics" - It costs less to recycle than to send it to the landfill.
- Universities educate future leaders to use resources efficiently and effectively.
- Day-to-day operations serve as an example to students and the greater community.
- Recycling programs create hands-on experience for students.
- Collecting materials for recycling and purchasing recycled content products will enhance the school's operations.
- Staff and Faculty support recycling as the first step in a campus sustainability program.

Recycling is often criticized as a weak environmental platform. However, recycling is viewed as a first green step to more substantial environmental activism – it gives us the training wheels and confidence to move forward to build a larger university environmental platform.

Recycling Is A Resource – And Trash is An Inefficiency

"Any waste as an output from a business is an operational inefficiency." Buckminster Fuller

"Remember, when a garbage truck takes your trash away, it doesn't disappear. It is landfilled – and there are socioeconomic concerns to landfilling." Robert Bullard

Recycling gives materials a second life –businesses utilize the recyclables as raw material input to produce new products and packaging. If we throw recyclables in the trash, we increase our trash disposal expense and throw economic resources into landfills. By **NOT** maximizing recycling, we unknowingly suppress economic activity that could and should be generated when those materials stay in circulation.

ISRI states that 8,376 jobs were supported by Ohio's manufacturing and brokerage operations in the scrap recycling industry in 2017. These are good jobs paying an average wage of \$61,200. In addition, the scrap recycling industry, through suppliers and the indirect impact of the industry's expenditures, supports 21,722 jobs. All of this activity generates \$6.7 billion in economic benefits in Ohio. (Institute of Scrap Recycling Industries, Inc. by John Dunham and Associates, 2017)

A 2001 economic study stated that Ohio hosts approximately 3,200 recycling and reuse establishments employing nearly 100,000 people, generating an annual payroll of \$3.6 billion and \$22.5 billion in annual revenues. (Ohio Recycling Economic Information Study, Prepared for the Ohio Department of Natural Resources, by The National Recycling Coalition in association with R. W. Beck, Inc.)

Research and Collaborate

A waste and recycling audit reveals the inadequacy of the current recycling collection program. *The audit does not demonstrate a poor collection system but displays how we can improve.* Although there is strong interest in recycling on campus and good intent in operating the current program, *the recycling audit demonstrates the need to increase recycling activity at various campus levels.*

Where to begin? This report is intended to provide suggestions that impact various points of material generation around the campus. This report is not fully comprehensive but provides a

starting point. Research into how other universities have expanded their collection program would help gain operational efficiencies.

Resource-conserving Hierarchy

A successful waste management policy supports a resource-conserving hierarchy:

1. source reduction and reuse at the highest of the hierarchy;
2. composting and recycling as primary resource management methods;
3. Landfilling is the last effort for waste disposal.

In today's world, we should be concerned about the declining climate and add an element of measure for CO₂ and methane reduction. An effective recycling collection program can be climate-friendly, unlike landfilling, which releases large volumes of methane and carbon dioxide.

My Laudate Deum Action Pledge

In Laudate Deum, Pope Francis calls "all people of goodwill" to take action on the climate crisis and "move beyond the mentality of appearing to be concerned but not having the courage needed to produce substantial changes." (LD 56) He particularly calls on us in the United States to make personal changes to our consumerist lifestyles, reduce our fossil fuel use, and advocate for systemic actions to address the climate crisis.

The Catholic Climate Covenant invites everyone to take a pledge of action and to respond directly to Pope Francis' call for change: <https://catholicclimatecovenant.org/my-laudate-deum-action-pledge/>

Universal Apostolic Preferences

The Universal Apostolic Preferences offer advice and motivation for on-campus environmental stewardship. Released on February 19, 2019, the Jesuit Superior General, Fr. Arturo Sosa, S.J., announced four Universal Apostolic Preferences for the Society of Jesus over the next decade. The 4 Preferences are:

- To show the way to God through the Spiritual Exercises and discernment;
- To walk with the poor, the outcasts of the world, those whose dignity has been violated, in a mission of reconciliation and justice;
- To accompany young people in the creation of a hope-filled future;
- To collaborate in the care of our Common Home.

We are reminded by these Universal Apostolic Preferences, not only of the care we need to provide for our Common Home but also of the care we should provide to our fellow neighbors.

Recycling, rather than disposing of everything in the trash, offers a second chance for products and packaging to have another life. A disposal path may lead toward polluting another's neighborhood, where the landfill is located. That can be said of this local area.

Robert Bullard, a Distinguished Professor at Texas Southern University, has demonstrated that most waste disposal facilities in the US are located in economically disadvantaged populated areas by intent. This placement strategy of disposal facilities is now known as environmental racism. A progressive recycling program helps counter the effects of this legacy of environmental racism.

5. Special Areas of Concern

Areas of concern identified in the Waste and Recycling Audit include the following:

- Too many styles of trash and recycling bins – confusing to staff and students
- Labels on containers are inconsistent and confusing
- Collection of recycling inconsistent and confusing
- Lack of advertising/promotion of the program
- Desire by staff and students for a larger collection program
- Lack of recycling collection at athletic events
- Lack of reuse opportunities at student Move-in / Move-out
- Desire for food waste collection on campus
- Grant funding is needed to improve and expand the campus program

Please note our suggestions in the Recommendations section.



6. Recommendations

We offer the following recommendations in consideration of the University budget conditions and the need to seek additional funding resources. It should be recognized that an enhanced university environmental platform will increase student enrollment as students look for climate-friendly campuses to further their education studies.

* The recommendations requiring external funding sources are indicated by an * at the beginning of the recommendation.

These recommendations are arranged within the 2023 Strategic Plan Cura categories.

Cura Propria: Building a profound culture of belonging and inclusive excellence

1. * Create a Replacement schedule to replace exterior and interior trash and recycling containers on campus with one design, color-coded and more visible than currently utilized containers. See the recommended containers later in this report. Funding sources are available through state and federal grants.
2. Provide recycling training at Maressa Orientation. Manresa is a great opportunity to educate first-year students on recycling opportunities and create higher expectations on recycling habits. Xavier Student Sustainability (XSS) could assist.
3. Provide campus-wide education regarding recycling opportunities, including the reconstruction of a website explaining the various features of recycling and waste reduction on campus.

4. Be consistent with Rumpke's list of recyclables. Current XU Recycling Website: <https://www.xavier.edu/green/campus-initiatives/recycling1>
5. Post posters above recycling bins to provide additional information, and change every year to add new images and information. Student leadership (XSS) can assist.
6. Develop a more robust on-campus recycling program in the residential apartments in collaboration with the Office of Residential Life, The Resident Student Association, and Xavier Student Sustainability (XSS). Posters are suggested. Justice Hall's paired trash/recycling Station setup is an ideal residential recycling program (Figure 4).
7. Be inclusive through annual surveys for improvement and suggestions. The input received in this report demonstrates that staff, faculty, and students have strong misconceptions about the campus recycling program. Better signage and labeling will help. However, an annual survey of needs will assist in improvements to the program and develop better communications.
8. Provide clear updates of what is recyclable in the campus recycling program in the "Today at Xavier" e-newsletter and the "Newswire Weekly."

Cura Apostolica: Operational strength and effective stewardship

1. * Relabel every recycling and trash bin on campus for clarity and consistency. Labels should be clear in language and offer pictures of items acceptable for collection. Funding grants are available for the labels, and student leadership can assist in the relabeling.
2. Establish a quarterly custodian contractor training program to develop the proper collection standardization of contractors working for the Office of Physical Plant.
3. * Establish and phase in a Large Venue Recycling Program to include the events at the Cintas Center and the Athletic Program. For every ton of material recycled, there is a more significant savings from trash collection than the recycling cost, as Rumpke noted. Funding may be available in the Beverage sales contract. Research the successful models of the University of Cincinnati Athletics Recycling Program (Rumpke Recycling) and the Loyola University Athletics Recycling Program.
4. Expand the cardboard collection to include all contractors and vendors across the university footprint—train vendors to recycle cardboard in the nearest cardboard recycling bin. Locate cardboard recycling bins in convenient locations for vendors.
5. When renegotiating soda vending contracts, include recycling collection containers as a featured benefit from the vendor. Both Pepsi and Coca-Cola offer large-scale beverage collection container benefits to college campuses.
6. * When contracting with food vendors, incorporate recyclable containers as a contract requirement, restricting or eliminating non-recyclables such as styrofoam or single-use plastics. Reduce the use of disposable items as much as possible. This is becoming a common-place contract restriction in food vendor contracts.
7. Request food services contractors to encourage reusable mugs or cups, allowing a discount on coffee and cold beverages. Reusable mugs are still experimental but gaining strength. XSS could assist in this project.



8. Using mapping programs like ArcGIS to visualize bins and their locations. This will provide the opportunity for assessments and action to take place for the evolving needs of the campus in the management, location, and use of disposal and recycling containers.

Cura Studiorum: Striving for excellence in innovation and academics

1. * Research capital investment and funding sources – State, Federal, and Private Foundation grants for recycling infrastructure and education.
2. Develop an annual waste and recycling report. Compile recycling and trash collection data for educational use and yearly reporting.
3. Require an annual diversion calculation when renewing or negotiating the subsequent recycling and trash contracts.
4. Research campus waste reduction, reuse, and recycling opportunities. Engage the Sustainability students in research projects regarding how to build a better campus program. Encourage waste reduction and reuse on campus before recycling.
5. Seek out best practices from the other 27 Jesuit Universities. An excellent program to model is the Loyola University of Chicago. Learn from their sustainability model and their financial model. <https://www.luc.edu/sustainability/sustainabilityatloyola/takeaction/recycling/>
6. * Expand the collection of hard-to-recycle items, including, but not restricted to, Fabric and clothing, Left-over paint (recycle and/or reuse), Fluorescent ballasts, fluorescent tubes, all light bulbs, Batteries, cell phones, unused tablets and computers (e-waste), Printer and toner cartridges, e-waste collection campus-wide – recognizing budgetary constraints. Collect Terra-cycle items (collected through Cincinnati Recycling and Reuse Hub). Add education first before we add new material. As each of these materials has a recycling expense, funding is needed to establish such a collection program. Hamilton County R3Source offers periodic grants for such collection programs.

Cura Personalis: An unsurpassed campus experience that transforms the mind, body, and spirit

1. Establish a campus administrative order that requires recycling all paper. All offices on campus generate paper waste, and the audit spotted large quantities of high-quality office paper in the waste stream. Many campus offices lack blue recycling bins to collect office recyclables, including office paper.
2. Establish a campus administrative order that requires recycled-content paper. (Staples and Office Depot offer 100% recycled content paper for approximately \$83 for ten reams) Utilizing recycled content paper helps support the domestic recycling markets to rebuild and consume our paper recycling. (Specifications: 100% recycled content, 20 lb copy paper, 92 bright), 8 ½ x 11 and 8 ½ x 14)
3. Establish photocopying guidelines that encourage the use of double-sided copies. Pre-program desktop computers to send print orders as double-sided unless otherwise specified. Discourage excessive and unnecessary copying of materials.
4. Purchasing contracts should require using or purchasing recycled content products. Purchasing recycled products is environmentally sound, encouraging resource and energy

conservation and, at the same time, supporting a market for recycled materials collected on campus. Ask vendors if their packaging is recyclable through the college recycling program.

5. * Expansion of the XU Office Swap, with the possibility of a permanent Campus Reuse Center. The expanded XU Office Swap can partner with the Central Procurement Office and the Cincinnati Recycling and Reuse Hub as a collaborative partner in assisting the establishment of an extensive on-campus reuse exchange network.
6. * Establish a Move-In and Move-Out Reuse Program for students and faculty moving into/out of their residential suites or offices. (A restoration and enlargement of the Muskie Move Out Program.) Many items are tossed away in the dumpsters – adding to waste disposal costs – that could be reused by others. A temporary reuse setup could be utilized to determine the feasibility and volume of the material exchanged, leading to a permanent program setup if successful. Funding is available through the State of Ohio and Federal Grants. The Cincinnati Recycling and Reuse Hub could be a collaborative partner in assisting the establishment of an on-campus Reuse Exchange Network.
7. * Establish a restaurant food waste collection program and compost the food waste in collaboration with the Nexus Community Garden Program. This recommendation comes with caution of learning from the past and utilizing the experiences of fellow Jesuit Universities. In addition, USDA grant opportunities could offer funding support.

* The recommendations requiring external funding sources are indicated by an * at the beginning of the recommendation.

7. Prioritizing the Recommendations

Recognizing that the above list of recommendations is daunting, we recommend that the University evaluate and prioritize these recommendations and establish an implementation schedule. As a suggestion, we offer the following order of priorities.

Recommendations that do not require new funding sources

These recommendations are primarily administrative and education-based and can be implemented within the current academic year.

Recommendations that do require new funding sources

These recommendations require the application of outside funding, yet they are significant recommendations and are timely toward restructuring the recycling program. Moving forward toward grant funding applications as quickly as possible is recommended.

Given that the 29 recommendations cannot be implemented within one academic year, we offer ranking guidance through the numeric scoring noted before each recommendation.

Recommendations are ranked within each strategic plan category for implementation purposes.

We recommend the discussion of assignments for implementation as specific recommendations are operational, while others are research-oriented, and others require deployment of education and marketing.

8. Recommended Container Styles



Figure 1- Recommended Exterior Trash Container



Figure 2- Recommended Exterior Recycling Container



Figure 3- Recommended Interior Recycling and Trash Containers - Paired



Figure 4- Recommended Student Residential Trash-Recycling Station

We recommend creating a replacement schedule to replace exterior and interior trash and recycling containers on campus with one design, color-coded and more visible than currently utilized containers. Funding sources are available through state and federal grants.

Figures 1 and 2 represent the recommended exterior trash and recycling containers we recommend. Figure 3 illustrates the interior trash and recycling containers we recommend. Note they are separated containers to avoid confusion and should include labeling of what is recyclable.

Figure 4 represents the presentation style of trash collection and recycling preferred in the residential floor hallways on campus. Although some buildings have closets established for collecting recycling and trash, those closets can also be fitted with this style of presentation for collection. Residential Halls are equipped with trash and recycling collection seven days per week. While the weekend (Sat, Sun) coverage is lighter, trash and recycling locations are checked and emptied twice daily, one in the AM and the other in the PM before dismissal. It must be noted that trash and recycling on the weekend have always been heavier, which could be attributed to social gatherings within the halls. This often results in the weekend collection

overflows for trash and recyclables. We recommend additional training for the on-site residential staff to monitor and bag the overflow and keep the area tidy over the weekends.

We also recommend placing a prominent label on the front side of each container, indicating what is recyclable and including pictures within the labels. It is also a national best practice to post replaceable posters above the interior bins with recycling information and why Xavier recycles – and replace these posters annually for a refreshed view of the program each year.

APPENDIX A: XU Campus Resources Available

Edward B. Brueggeman Center for Dialogue

Today, the mission of the Edward B. Brueggeman Center for Dialogue is concentrated on promoting the Four Universal Apostolic Preferences of the Jesuits (Society of Jesus), who established the University.

The Center continues, as it has in the past, to seek partners—regionally, nationally, and globally—to collaborate in the essential work of deepening interfaith understanding and promoting systemic change on social and environmental justice issues.

<https://www.xavier.edu/dialogue/>

Laudato Si' Action Platform Steering Committee

The Laudato Si' Action Platform, or LSAP, is divided into seven working groups, each focusing its sustainability initiatives on one of the seven goals defined in Pope Francis' 2015 encyclical. These working groups are each supported by leadership from across the university. The groups and leadership are as follows:

Response to the Cry of the Earth - Peter Smith (Physics Department)

Response to the Cry of the Poor - Dr. O'neil Van Horn (Theology Department)

Ecological Economics - Dr. Julie Hoffmann (Business Analytics and Information Systems)

Adoption of Sustainable Lifestyles - Marybeth Sullivan (Health and Wellness)

Ecological Education - Dr. Mollie McIntosh (Biology Department)

Ecological Spirituality - Fr. Eric Sundrup (Mission and Ministry)

Community Empowerment and Resilience - Beth Boland (Accounts Payable)

This leadership is further supported in an advisory capacity by JP Parham (Student-Athlete Academic Support Services), Bob Sheeran (Financial Administration/Facilities), and Tim Sundrup (University Sustainability Coordinator).

<https://www.xavier.edu/green/laudato-si-action-platform-steering-committee>

Center for Mission and Identity

The Center for Mission and Identity engages faculty, staff, and administrators in understanding Ignatian spirituality and Jesuit education as the foundation of the University's mission of

intellectually, morally, and spiritually forming students as they cultivate lives of reflection, compassion, and informed action.

The Center for Mission and Identity now houses the campus sustainability programs, with Tim Sundrup as the Associate Director of Mission and Identity/University Sustainability Coordinator.

Xavier is the first Association of Jesuit Colleges and Universities school to house its chief sustainability officer in its mission office, boldly claiming that sustainability is integral to our identity as a Jesuit Catholic university.

<https://www.xavier.edu/mission-identity/about-us/index>

Office of Residential Life

Living on campus should be a highlight of your college experience. At Xavier, the Office of Residential Life team is committed to providing students with a residential environment that supports their social and academic experiences. This Office manages all on-campus residential units.

<https://www.xavier.edu/residence-life/index>

Resident Student Association

The Resident Student Association (RSA) is a campus-wide programming and advocacy group for all residential students. RSA is responsible for designing and implementing residential students' social and educational programs. These programs are created by students, for students. If you are interested in learning about the event planning process or have ideas you think can improve your hall community, contact your Hall Director to discuss involvement in your RSA. Look for fliers and emails regarding upcoming RSA events in your community.

<https://www.xavier.edu/residence-life/pathways>

Student Government Association

The Xavier University Student Government Association exists to continuously improve the University and develop all students, undergraduate and graduate, part-time and full-time, traditional and nontraditional alike, as responsible and involved members and leaders of society. It provides a forum for civic training and student participation in University governance and strives to preserve the rights and freedoms of all students.

<https://www.xavier.edu/student-involvement/sga/index>

Xavier Student Sustainability (XSS)

Xavier Student Sustainability (XSS) is a student program founded in the Dorothy Day Center for Faith and Justice but has transformed into a student club. They promote sustainability and uphold sustainable initiatives within the Xavier community and the greater Cincinnati area, foster an environment where students can explore and learn about sustainable topics and practices, and engage in discussion with other students interested in sustainability. Membership is open to all Xavier students!

<https://www.xavier.edu/green/student-sustainability-involvement/index>

Sustainability Academic Majors

Xavier is proud to offer two academic majors in Sustainability.

Economics, Sustainability, and Society ([BA in ECOS](#))

Focuses on sustainable economies and includes studying natural resources, ecological and environmental problems, processes, and policies at local, national, and global levels. Students will integrate economic analysis with cultural studies, international economic development, policy studies, and management as they gain skills to conceptualize and solve sustainability problems. Students will critically examine the goal of ever-greater material consumption and the notion of natural capital as a mere storehouse of natural resources waiting to be used.

For more information, <https://www.xavier.edu/economics-sustainability-and-society/index>

Environmental Science ([BS in ENSC](#))

Focuses on the impact of human systems on our natural environment and how, in turn, these natural systems affect the human environment. The program offers strong scientific foundations and an understanding of the economic, political, and human social systems necessary to implement policies and technologies.

Program Options

Students can obtain a Bachelor of Science in Environmental Science in two ways from Xavier University. The first is a traditional undergraduate four-year degree at Xavier. The second is through [Xavier's Environmental Science with a concentration in Environmental Management](#) Program, where students attend Xavier and Duke University to obtain both their Bachelor of Science and graduate degree in 5 years.

For more information, <https://www.xavier.edu/environmental-science/index>

APPENDIX B: Local Resources Available

Cincinnati Recycling and Reuse Hub

The Hub's purpose is to reduce the amount of waste going to landfills through our one-stop drop-off location, where they accept items and materials that are recyclable and reusable, many of which are not permitted in traditional recycling bins. The one-stop model is unique in that it allows for more items to be recycled or reused than the current waste/recycling/reuse infrastructure for the Greater Cincinnati Area does. The Hub is the only organization in Greater Cincinnati accepting such a vast amount of items for the general public to recycle in one place.

Please visit the Hub's website to understand everything collected at their facility.

The Hub is located at 911 Evans Street,
Cincinnati, OH, 45204

Mailing Address: P.O. Box 58087, Cincinnati,
OH, 45258-0087

Colleen McSwiggin, Executive Director and
Recycler-in-Chief, 513-629-9040

<https://www.cincinnati recycling and reuse hub.org/>



City of Cincinnati – Office of Environment and Sustainability

The OES staff provides recycling resources and other environmental and sustainability programming throughout the city. OES is the home and administrator of the Green Cincinnati Plan.

The City of Cincinnati provides trash and recycling collection to City residents in single-family homes and apartments up to four units. City workers service the trash collection, while Rumpke services the recycling through a contract.

Apartments, five units and larger, as well as commercial businesses and industries, are serviced by private haulers and must contract individually with a hauler for trash and recycling services. This affects many students, staff, and faculty that live off campus. OES regulates private haulers serving within the city limits of Cincinnati.

Oliver Kroner, OES Director, 513-352-6992
Sue Magness, Recycling Coordinator, 513-352-3200
<https://www.cincinnati-oh.gov/oes/>

Green Umbrella

Green Umbrella: A network of people, organizations, and governments committed to taking decisive action in the face of climate change. Green Umbrella leads cross-sector collaboration to accelerate climate action across Greater Cincinnati. Xavier University is an active member of Green Umbrella and sponsors many activities and events for GU.

Ryan Mooney-Bullock, Executive Director, Ryan@GreenUmbrella.org
PO Box 14270, Cincinnati, OH 45250.
<https://greenumbrella.org/>

Hamilton County R3sources (aka Recycling and Solid Waste Department)

Hamilton County R3source's mission is to reduce reliance on landfills through waste reduction, reuse, and recycling programs. To accomplish this mission, Hamilton County R3Source works closely with communities, schools, businesses, and institutions to provide technical assistance, education, and tools designed to reduce waste and capture valuable resources through recycling and composting.

R3sources also provides periodic grant rounds for the local support of reuse, recycling, and composting. The staff is an excellent resource on education and outreach tools.

250 William Howard Taft Rd, First Floor, Cincinnati, OH 45219
Michelle Balz, Solid Waste Manager,
513-946-7789,
Michelle.Balz@hamilton-co.org
<https://hamiltoncountyr3source.org/>

Habitat for Humanity – Restore

Habitat ReStores are independently owned reuse stores operated by local Habitat for Humanity organizations. ReStores accepts donations and sells a constantly changing inventory of diverse, high-quality merchandise to the public at a fraction of the retail price while diverting reusable household items and building materials from area landfills.

Sales of donated items help Habitat for Humanity partner with local families to build, rehabilitate, and repair safe and affordable homes in your community and worldwide — a good deal for you, your community, and the environment. They can help families achieve the strength, stability, and self-reliance they need to build a better future while creating stronger neighborhoods.

As XU considers any reuse or excess material collection, Restore can assist in the pickup on-site if the quantity is large enough.

HFH of Greater Cincinnati ReStore- Bond Hill
4910 Para Dr., Cincinnati, OH 45237
513-621-0061

<https://www.habitatcincinnati.org/restore>

Matthew 25: Ministries

They accept monetary and product donations of misprinted, slightly damaged, over-stocked, or gently used supplies from corporations, organizations, and individuals nationwide. They also supplement outside donations by manufacturing, assembling, and blending products in-house, including school notebooks, pencils, rice-soy meals, and paint.

With the help of our volunteers, these goods are processed at our over 300,000 square-foot Processing Center in Cincinnati, Ohio, and then shipped via forty-foot seagoing containers and semi-trailers to the poorest of the poor and disaster victims. The work of Matthew 25: Ministries helps the poorest of the poor and disaster victims throughout the United States and around the world.

DONATION DROP-OFF
11083 Kenwood Road, Blue Ash, OH 45242
513-793-6256

<https://m25m.org/help/product-donations/>

St. Vincent DePaul Charities

The Mission of the Society of St. Vincent de Paul is “a network of friends, inspired by Gospel values, growing in holiness and building a more just world through personal relationships with and service to people in need.” At the National Council, we provide Vincentians across the United States with training, education, spiritual formation, and financial support as they assist millions of our most vulnerable neighbors.

Services provided relevant to reuse, recycling, and waste reduction:

Disaster Services Corporation

Focusing on systemic change in long-term recovery through person-to-person support services, the Disaster Services Corporation (DSC) helps people in situational poverty brought about by natural and artificial disasters get their lives back in order.

Food Pantries

Many families cannot consistently put food on the table. Serving neighbors in need in communities across the United States, our food pantries provide fresh and non-perishable goods in neighborhoods impacted by poverty.

Thrift Stores

Providing meaningful employment and volunteer opportunities, our thrift stores are a significant driver of the Society's mission and effectiveness. Profits from our stores contribute millions of dollars for Councils and Conferences to use in their communities.

1125 Bank Street, Cincinnati, OH 45214

513-562-8841

<https://www.svdpcincinnati.org/>

APPENDIX C: National Resources Available

The Recycling Partnership

The Recycling Program Solutions Hub is a free resource for local recycling staff to access and use critical recycling program data to optimize their recycling programs. Created by The Recycling Partnership, with support from the Walmart Foundation and Milliken, the Hub is powered by the National Recycling Database and centers around data, connectivity, and actionable suggestions. Users have a first-hand opportunity to co-create a more robust recycling system.

The Recycling Partnership assisted the City of Cincinnati in public education and programming and could offer similar services (for free) to Xavier University. In addition, the Recycling Partnership periodically provides grants.

20 F Street NW, 7th Floor, Washington, D.C. 20001

877-514-8774

<https://community.recyclingpartnership.org/home>

National Recycling Coalition (NRC)

The National Recycling Coalition is a non-profit organization focused on promoting and enhancing recycling in the United States. They are 23-affiliated recycling organizations strong and have a network of more than 6,000 members that extends across waste reduction, reuse, recycling, and composting. The organization works to maintain a prosperous and productive recycling system that is committed to conserving natural resources and accelerating sustainable approaches to the management of discarded materials.

The Coalition represents and advocates for every sector of the recycling industry across the country on the local, state, and federal levels. The NRC provides its members with the tools and resources they need to convey to their community members, decision-makers, and news media the essential benefits that recycling provides to our economy and environment. The NRC also develops meaningful partnerships with corporate, government, and nonprofit leaders to bring about essential changes in how we use, manage, and recycle natural resources.

Being a member of the NRC offers education opportunities, national grant training, and an annual Congress (national conference).

Box 314, 1151 Eagle Drive, Loveland, CO 80537

<https://nrcrecycles.org/>

Association of Ohio Recyclers (AOR)

The Association of Ohio Recyclers (AOR) is a 501(c)(6) non-profit trade organization founded in 1989 that promotes waste reduction, reuse, and recycling. AOR is nonpolitical and nonpartisan. AOR prides itself on promoting sound solid waste management practices incorporating source separation and recycling of marketable materials in the waste stream.

AOR aims to promote and advance waste reduction, reuse, and recycling through statewide leadership, communication, research, education, and networking opportunities. AOR members receive annual education opportunities through a yearly conference rotating around Ohio's major cities. Members of AOR are automatic members of the National Recycling Coalition (NRC).

P.O. Box 14737, Columbus, OH 43214

<https://www.ohiorecycles.org/>

Upstream

Upstream is a US-based nonprofit that sparks innovative solutions to plastic pollution by helping people, businesses, and communities shift from single-use to reuse. From model policies to playbooks and toolkits to training – all the resources you need to support reuse advocacy in your community. Upstream provides the resources and support you need to make the case that reuse wins for people, planet, and businesses' bottom line.

As Xavier educates its campus staff, faculty, and students on waste reduction, reuse, and recycling, Upstream can provide educational resources regarding reuse.

For general inquiries, you can reach us at info@upstreamolutions.org
<https://upstreamolutions.org/join>

US Plastic Pact

The U.S. Plastics Pact connects diverse public-private stakeholders across the plastics value chain to rethink the way we design, use, and reuse plastics to create a path forward to realize a circular economy for plastic in the United States. The U.S. Plastics Pact works with Activators to take measures to eliminate 11 problematic and unnecessary resins, components, and formats by 2025 in order to accelerate progress toward a circular economy for plastic packaging in the United States.

As Xavier educates its campus staff, faculty, and students on waste reduction, reuse, and recycling, the "plastics problem" should and can be addressed with educational material from the US Plastic Pact regarding the elimination and avoidance of common single-use plastics.

U.S. Plastics Pact, P.O. Box 772, Walpole, NH 03608-0772
<https://usplasticspact.org/>

APPENDIX D: Economic Resources

Hamilton County R3sources

Hamilton County R3sources (noted in local resources also) provides periodic grant rounds for the local support of reuse, recycling, and composting. The staff is an excellent resource on education and outreach tools. Impact grant application is due April 3, 2024, with details noted at: <https://hamiltoncountyr3source.org/186/Grants>

250 William Howard Taft Rd, First Floor, Cincinnati, OH 45219
Michelle Balz, Solid Waste Manager,
513-946-7789,
Michelle.Balz@hamilton-co.org
<https://hamiltoncountyr3source.org/>

OHIO EPA

Ohio EPA offers grants to academic institutions on an annual basis. Of interest is funding for recycling container labeling, container replacement, special event recycling, and student move-in/move-out reuse events. Grant due date is annually every December.

<https://epa.ohio.gov/divisions-and-offices/environmental-financial-assistance/recycling/grants/academic-institution-grants>

ReFED

ReFED is a national nonprofit dedicated to ending food loss and waste by advancing data-driven solutions. With our holistic view of the food system, we're working to achieve a 50% food waste reduction in accordance with the United Nations' 2030 Sustainable Development Goals. They're doing it by fostering informed action – action that's driven by solutions to specific challenges, that's grounded in data, that's targeted to where it can benefit the most, and that's coordinated across multiple stakeholders and evaluated to ensure success. They believe it's possible to solve the food waste crisis. And informed action will get us there.

ReFed partners with USDA Funding opportunities to support food waste collection.
<https://refed.org/about/who-we-are/#mission>

The Recycling Partnership

The Recycling Partnership offers grants to Local governments, solid waste authorities, or federally recognized tribes. XU can receive Partnership funding through the Hamilton County R3Sources or the City of Cincinnati. The Recycling Partnership funds only recycling containers and education.

20 F Street NW, 7th Floor, Washington, D.C. 20001
877-514-8774

<https://recyclingpartnership.org/recycling-cart-grant/>

USEPA

The USEPA Grant for Education and Outreach allows for funding for recycling and trash containers and the education that goes with it. Congress authorized 5 rounds of funding in the IRA (Inflation Reduction Act), but they have not announced the dates for Round 2 yet. For this grant opportunity, it is best to demonstrate "regional" cooperation. A limited number of grants per EPA Region - we are in Region 5. Possibly pair up with the City of Cincinnati, Hamilton County, and other regional units.

<https://www.epa.gov/infrastructure/consumer-recycling-education-and-outreach-grant-program>

The USEPA Recycling Infrastructure grants may offer funding for container funds as well. Round 1 grants were recently announced and will soon begin on Round 2, but no Round 2 dates have been announced yet. The Infrastructure grants are highly competitive across the country. Again - it is best to demonstrate "regional" cooperation. A limited number of grants per EPA Region - we are in Region 5. Possibly pair up with the City of Cincinnati, Hamilton County, and other regional units.

<https://www.epa.gov/infrastructure/solid-waste-infrastructure-recycling-grants-communities>

Check in with Region 5 folks for advice, timing, and advice for both grant opportunities.

USDA

The USDA Office of Urban Agriculture and Innovative Production (OUAIP) offers funding under the Composting and Food Waste Reduction cooperative agreements. In 2022, \$10.2 million will be awarded to fund pilot projects that develop and implement strategies for food waste reduction and compost plans. OUAIP solicited applications from local governments, school districts, and Native American tribes. Priority is given to projects that include food waste reduction strategies, incorporate a plan to make compost easily accessible to agricultural producers, anticipate or demonstrate economic benefits, and involve multiple partners.

<https://www.usda.gov/foodlossandwaste/funding>

APPENDIX E: Waste and Recycling Audit - Spreadsheet

Attached

APPENDIX F: Container Styles Currently On Campus

Attached

APPENDIX G: Recommended Container Label

Attached

APPENDIX E: Waste and Recycling Audit - Spreadsheet

EX / IN	EX Location / IN Building	Floor	Container Type	Recycle / Trash	Quantity	Area	Notes
IN	Albers	0	In4s	Trash	4	Office	
IN	Albers	1	In14	Duel / Mixed Recycling & LF	1	Common Area	
IN	Albers	1	In14	Duel / Mixed Recycling & LF	1	Hallway	
IN	Albers	1	In4s	Trash	1	Office	
IN	Albers	1	Recycle Bin	Recycle	1	Office	Dean's Office
IN	Albers	1	In4t	Trash	3	Office	Dean's Office
IN	Albers	1	In4t	Trash	10	Office	
IN	Albers	1	In4t	Trash	3	Classrooms	
IN	Albers	1	In4t	Trash	1	Hallway	
IN	Albers	2	In4t	Trash	5	Classrooms	
IN	Albers	2	In4s	Trash	5	Office	
IN	Albers	2	In4t	Trash	1	Hallway	
IN	Albers	2	In2	Triple2 / Trash & Paper & Cans	1	Hallway	
IN	Albers	3	In4t	Trash	5	Classrooms	
IN	Albers	3	In4s	Trash	5	Office	
IN	Albers	3	In4t	Trash	1	Hallway	
IN	Albers	3	In2	Triple2 / Trash & Paper & Cans	1	Hallway	
EX	Albers	G	Ex5	Trash	1	Exterior	
EX	Albers	G	In7	Recycle	1	Exterior	
IN	Alter	0	In1	Triple1 / Cans & Paper & Trash	3	Hallway	
IN	Alter	0	In4t	Trash	4	Hallway	
IN	Alter	0	In4t	Trash	7	Classrooms	
IN	Alter	1	In4t	Trash	5	Hallway	
IN	Alter	1	Markers	Marker Recycling	2	Hallway	
IN	Alter	1	In2	Triple2 / Trash & Paper & Cans	1	Hallway	
IN	Alter	1	In1	Triple1 / Cans & Paper & Trash	2	Hallway	
IN	Alter	1	In4t	Trash	8	Classrooms	
IN	Alter	2	In4t	Trash	3	Office	
IN	Alter	2	In1	Triple1 / Cans & Paper & Trash	2	Hallway	
IN	Alter	2	In2	Triple2 / Trash & Paper & Cans	1	Hallway	
IN	Alter	2	In4t	Trash	7	Classrooms	
IN	Alter	2	In3s	Recycle	9	Office	
IN	Alter	2	In4s	Trash	9	Office	
IN	Alter	2	photo 7 - 8/4	Trash	1	Office	
IN	Alter	2	In3s	Recycle	1	Office	
IN	Alter	3	In1	Triple1 / Cans & Paper & Trash	3	Hallway	
IN	Alter	3	In4t	Trash	8	Classrooms	
IN	Alter	3	In4t	Trash	3	Office	
IN	Alter	3	In4t	Trash	1	Office	
EX	Alter - Entrance	1	Ex3	Duel / Trash & Recycling	1	Exterior	Water Bottles in Recycling side
EX	Alter -Entrance	1	Ex3	Duel / Trash & Recycling	1	Exterior	Water Bottles in Recycling side
IN	Alumni Center - Basement	0	In3s	Recycle	6	Classrooms	
IN	Alumni Center - Basement	0	In4s	Trash	9	Classrooms	
IN	Alumni Center - Basement	0	In2	Triple2 / Trash & Paper & Cans	2	Hallway	
IN	Alumni Center - Basement	0	In4t	Trash	4	Hallway	
IN	Alumni Center - Basement	0	Ex5	Trash	1	Hallway	
IN	Alumin Center	1	In3s	Recycle	11	Office	
IN	Alumin Center	1	In4s	Trash	11	Office	
IN	Alumin Center	1	In4t	Trash	1	Common Area	
IN	Alumin Center	1	In3t	Recycle	1	Common Area	
IN	Alumin Center	1	In5	Paper slot - Recycling	1	Common Area	
IN	Alumin Center - Engaged Learning	1	In3s	Recycle	6	Office	
IN	Alumin Center - Engaged Learning	1	In4s	Trash	12	Office	
IN	Alumin Center - Engaged Learning	1	In4t	Trash	2	Common Area	
IN	Alumin Center - Engaged Learning	1	In5	Paper slot - Recycling	1	Common Area	
IN	Alumin Center - Engaged Learning	1	In1	Triple1 / Cans & Paper & Trash	1	Common Area	
IN	Alumin Center - Marketing	1	In3s	Recycle	23	Office	
IN	Alumin Center - Marketing	1	In4s	Trash	23	Office	
IN	Alumin Center - Marketing	1	In10	Trash	2	Common Area	
IN	Alumin Center - Marketing	1	In4t	Trash	1	Common Area	
IN	Alumin Center - Photographer	1	In4t	Trash	1	Office	
IN	Alumin Center - Photographer	1	In4t	Trash	1	Hallway	
IN	Alumin Center - Sports	1	In3s	Recycle	2	Office	
IN	Alumin Center - Sports	1	In4s	Trash	2	Office	
IN	Alumin Center - Sports	1	In4t	Trash	1	Office	
IN	Alumin Center - Strategic Brand	1	In3s	Recycle	2	Office	
IN	Alumin Center - Strategic Brand	1	In4s	Trash	2	Office	
IN	Alumin Center - Strategic Brand	1	photo 11 - 8/10	Pair - Recycle and Trash	1	Common Area	Stainless Steel pair
IN	Alumin Center - Welcome Center	1	Photo 10 -8/10	Trash	3	Common Area	Beige Trash Can
IN	Alumni Center -HR Offices	1	In3s	Recycle	13	Office	
IN	Alumni Center -HR Offices	1	In4s	Trash	13	Office	
IN	Alumni Center -HR Offices	1	In4t	Trash	2	Common Area	
IN	Alumni Center -HR Offices	1	Shredder	Shredder - paper	2	Common Area	
IN	Alumni Center -HR Offices	1	In5	Paper slot - Recycling	1	Common Area	
IN	Alumni Center -HR Offices	1	In3t	Recycle	2	Common Area	
IN	Alumni Center -2nd Floor Offices	2	In3s	Recycle	20	Office	
IN	Alumni Center -2nd Floor Offices	2	In4s	Trash	20	Office	
IN	Alumni Center -2nd Floor Offices	2	In4t	Trash	7	Hallway	
IN	Alumni Center -2nd Floor Offices	2	Tall toter gray	Trash	1	Common Area	
IN	Alumni Center -2nd Floor Offices	2	Cans & Bottle Cont	Recycle	1	Common Area	
IN	Armory	0	In13	Duel / Recycling & Trash	1	Hallway	
IN	Armory	0	In3s	Recycle	3	Common Area	
IN	Armory	0	In4s	Trash	3	Common Area	
IN	Armory	0	In4T	Trash	2	Common Area	
IN	Armory	1	In13	Duel / Recycling & Trash	2	Hallway	
IN	Armory	1	In4t	Trash	2	Classrooms	
IN	Armory	1	Cans & Bottle Cont	Recycle	2	Classrooms	
IN	Armory	1	In3s	Recycle	1	Classrooms	
IN	Armory	1	In4s	Trash	1	Classrooms	
IN	Armory	2	In3s	Recycle	1	Common Area	

APPENDIX E: Waste and Recycling Audit - Spreadsheet

EX / IN	EX Location / IN Building	Floor	Container Type	Recycle / Trash	Quantity	Area	Notes
IN	Armory	2	In4s	Trash	1	Common Area	
IN	Armory	2	In4T	Trash	1	Common Area	
EX	Baseball Field	G	Ex5	Trash	3	Exterior	
EX	Baseball Field	G	Ex4	Recycle	3	Exterior	
IN	Bellarmino Chapel	1	photo 1 - 8/4	Recycle	2	Common Area	
IN	Bellarmino Chapel	1	In3t	Recycle	6	Office	
IN	Bellarmino Chapel	1	In4s	Trash	4	Office	
IN	Bellarmino Chapel	1	In3s	Recycle	4	Office	
IN	Bellarmino Chapel	1	In5	Paper slot - Recycling	1	Common Area	
IN	Bellarmino Chapel	1	photo 2 - 8/4	Recycle	1	Common Area	
IN	Bellarmino Chapel	1	In4t	Trash	1	Common Area	
IN	Bellarmino Chapel	1	photo 4 - 8/4	Recycle	1	Common Area	
IN	Bellarmino Chapel	1	Tall Round Gray	Trash	1	Common Area	
IN	Bellarmino Parish Center	1	In3t	Recycle	1	Hallway	
IN	Bellarmino Parish Center	1	In4s	Trash	1	Office	
IN	Bellarmino Parish Center	1	Kitchen Trash Can	Trash	1	Kitchen	
IN	Bellarmino Parish Center	1	In3s	Recycle	2	Office	
IN	Bellarmino Parish Center	1	In4s	Trash	2	Office	
IN	Bellarmino Parish Center	1	In5	Paper slot - Recycling	1	Common Area	
IN	Bellarmino Parish Center	1	Shredder	Shredder - paper	1	Common Area	
IN	Bellarmino Parish Center	2	In4t	Trash	4	Office	
EX	Bellarmino- porch	G	Gray Waste Bin	Trash	1	Exterior	
EX	Bellarmino- porch	G	Blue Outdoor Bin	Recycle	1	Exterior	
EX	Bellarmino- porch	G	In8	Trash	1	Exterior	
IN	Brockman - Residential	0	In3s	Recycle	29	Residential	dorm rooms
IN	Brockman - Residential	0	In4s	Trash	29	Residential	dorm rooms
IN	Brockman - Residential	0	Large Trash Can	Trash	1	Trash Closet	4 Trash Closets per floor
IN	Brockman - Residential	0	Large Recycle Can	Recycle	1	Trash Closet	4 Trash Closets per floor
IN	Brockman - Residential	1	In4s	Trash	18	Residential	dorm rooms
IN	Brockman - Residential	1	In3s	Recycle	14	Residential	dorm rooms
IN	Brockman - Residential	1	In3t	Recycle	1	Common Area	
IN	Brockman - Residential	1	Shredder	Shredder - paper	1	Common Area	
IN	Brockman - Residential	1	Tall Bin	Trash	1	Common Area	
IN	Brockman - Residential	1	Trash can	Trash	2	Common Area	
IN	Brockman - Residential	1	In5	Paper slot - Recycling	1	Common Area	
IN	Brockman - Residential	1	Ex5	Trash	1	Common Area	
IN	Brockman - Residential	1	In5	Paper slot - Recycling	1	Common Area	
IN	Brockman - Residential	1	In4t	Trash	1	Common Area	
IN	Brockman - Residential	1	In3s	Recycle	34	Residential	dorm rooms - City Services ?
IN	Brockman - Residential	1	In4s	Trash	34	Residential	dorm rooms
IN	Brockman - Residential	1	Large Trash Can	Trash	1	Trash Closet	4 Trash Closets per floor
IN	Brockman - Residential	1	Large Recycle Can	Recycle	1	Trash Closet	4 Trash Closets per floor
IN	Brockman - Residential	2	In3s	Recycle	36	Residential	dorm rooms
IN	Brockman - Residential	2	In4s	Trash	36	Residential	dorm rooms
IN	Brockman - Residential	2	Large Trash Can	Trash	1	Trash Closet	4 Trash Closets per floor
IN	Brockman - Residential	2	Large Recycle Can	Recycle	1	Trash Closet	4 Trash Closets per floor
IN	Brockman - Residential	2	In4t	Trash	1	Common Area	
IN	Brockman - Residential	2	Cans & Bottle Cont	Recycle	1	Common Area	
IN	Brockman - Residential	3	In3s	Recycle	49	Residential	dorm rooms
IN	Brockman - Residential	3	In4s	Trash	49	Residential	dorm rooms
IN	Brockman - Residential	3	Large Trash Can	Trash	1	Trash Closet	6 Trash Closets on 3rd floor
IN	Brockman - Residential	3	Large Recycle Can	Recycle	1	Trash Closet	6 Trash Closets on 3rd floor
IN	Brockman - Residential	3	In5	Paper slot - Recycling	1	Common Area	
IN	Brockman - Residential	3	In4t	Trash	2	Common Area	
EX	Brockman - Residential	G	Ex5	Trash	1	Exterior	
EX	Brockman - Residential	G	Ex4	Recycle	1	Exterior	
EX	Brockman - Residential	G	Rumpke Brown	Trash	10	Exterior	
EX	Brockman - Residential	G	Rumpke Green	Recycle	8	Exterior	
IN	Bruggeman Center	1	In3s	Recycle	4	Office	
IN	Bruggeman Center	1	In4s	Trash	4	Office	Includes 2nd floors offices
IN	Bruggeman Center	1	In4t	Trash	1	Common Area	
IN	Bruggeman Center	1	In4t	Trash	1	Kitchen	
IN	Bruggeman Center	1	Recycle crate	Recycle	1	Kitchen	
IN	Bruggeman Center	1	In5	Paper slot - Recycling	1	Kitchen	
EX	Buenger - entrance	G	Ex5	Trash	2	Exterior	
EX	Buenger - entrance	G	Ex4	Recycle	2	Exterior	
IN	Buenger - Residential	1	In1	Triple1 / Cans & Paper & Trash	1	Common Area	Common Room
IN	Buenger - Residential	1	In3s	Recycle	1	Common Area	Conference Room
IN	Buenger - Residential	1	In4s	Trash	1	Common Area	Conference Room
IN	Buenger - Residential	1	Industrial Waste	Trash	3	Trash Closet	Trash Closet
IN	Buenger - Residential	1	Square Recycling Blue	Recycle	1	Trash Closet	Trash Closet
IN	Buenger - Residential	1	In1	Triple1 / Cans & Paper & Trash	1	Common Area	Common Room
IN	Buenger - Residential	2	Industrial Waste	Trash	3	Trash Closet	Trash Closet
IN	Buenger - Residential	2	In3t	Trash	1	Trash Closet	Trash Closet
IN	Buenger - Residential	2	In1	Triple1 / Cans & Paper & Trash	1	Common Area	Common Room
IN	Buenger - Residential	3	Industrial Waste	Trash	3	Trash Closet	Trash Closet
IN	Buenger - Residential	3	In3t	Trash	1	Trash Closet	Trash Closet
IN	Buenger - Residential	3	In1	Triple1 / Cans & Paper & Trash	1	Common Area	Common Room
IN	Buenger - Residential	4	Industrial Waste	Trash	3	Trash Closet	Trash Closet
IN	Buenger - Residential	4	In3t	Trash	1	Trash Closet	Trash Closet
IN	Buenger - Residential	4	In1	Triple1 / Cans & Paper & Trash	1	Common Area	Common Room
IN	Buenger - Residential	1-4	In3s	Recycle	88	Residential	dorm rooms
IN	Buenger - Residential	1-4	In4s	Trash	88	Residential	dorm rooms
EX	C2 Parking	G	Ex5	Trash	2	Exterior	
EX	C2 Parking	G	Ex4	Recycle	1	Exterior	Bottles Only
IN	Center for Innovation	1	In3s	Recycle	4	Office	
IN	Center for Innovation	1	In4s	Trash	8	Office	
IN	Center for Innovation	1	In4t	Trash	2	Hallway	
IN	Center for Innovation	1	In1	Triple1 / Cans & Paper & Trash	1	Common Area	
EX	Center for Innovation - back entr	1	Ex4	Recycle	1	Exterior	

APPENDIX E: Waste and Recycling Audit - Spreadsheet

EX / IN	EX Location / IN Building	Floor	Container Type	Recycle / Trash	Quantity	Area	Notes
EX	Center for Innovation - back entr	1	Ex5	Trash	1	Exterior	
EX	Cintas - Front	G	Ex1	Recycle	5	Exterior	Plastic Bottles
EX	Cintas - Front	G	Ex2	Trash	5	Exterior	Trash
EX	Cintas - Front	G	Ex3	Duel / Trash & Recycling	5	Exterior	Mixture in both sides
EX	Cintas - Loading Dock	G	Ex4	Trash	2	Exterior	No hole - Trash and Recyclables
EX	Cintas - Loading Dock	G	Ex2	Trash	1	Exterior	
IN	Cintas	1	Cans & Bottle Cont	Recycle	2	Common Area	
IN	Cintas	1	Tan - no label	Trash	2	Common Area	
IN	Cintas	1	Ex4	Trash	1	Common Area	raags
IN	Cintas	1	Silver Trash/Recycle	Trash	3	Common Area	Banquet Hall
IN	Cintas	1	In11	Trash	5	Common Area	Banquet Hall
IN	Cintas	1	In4t	Trash	2	Common Area	Banquet Hall
IN	Cintas	1	Grey Bin	Trash	1	Common Area	Entrance to Banquet Hall
IN	Cintas	1	Cans & Bottle Cont	Recycle	1	Common Area	Entrance to Banquet Hall
IN	Cintas	1	Tan - no label	Trash	1	Common Area	Entrance to Banquet Hall
IN	Cintas	1	In4t	Trash	1	Common Area	Entrance to Banquet Hall
IN	Cintas	1	Tan - no label	Trash	7	Common Area	1st Floor
IN	Cintas	1	Tan - no label	Trash	1	Dock	Dock Level
IN	Cintas	1	Cans & Bottle Cont	Recycle	1	Dock	Dock Level
IN	Cintas	1	In4s	Trash	1	Common Area	Dippin Dots
IN	Cintas	1	Silver Trash/Recycle	Trash	1	Common Area	Dart Deck
IN	Cintas	1	Silver Trash/Recycle	Trash	2	Common Area	Traditions Room
IN	Cintas	1	In11	Trash	1	Common Area	Traditions Room
IN	Cintas	1	Black bin	Trash	1	Classrooms	
IN	Cintas	1	Silver Trash/Recycle	Separate bags for recycle/trash	3	Common Area	Student Athlete / Academic Support
IN	Cintas	1	In4s	Trash	3	Common Area	Student Athlete / Academic Support
IN	Cintas	1	Large Square trash	Trash	2	Kitchen	
IN	Cintas	1	Recycle Container	Trash	1	Common Area	SA Lounge / Plastic Bottles
IN	Cintas	1	In4s	Trash	2	Common Area	Medical Facility
IN	Cintas	1	Industrial Waste	Trash	1	Common Area	Medical Facility
IN	Cintas	1	In4t	Trash	1	Common Area	Athletic Offices - Suite
IN	Cintas	1	In4s	Trash	1	Common Area	Athletic Offices - Suite
IN	Cintas	1	In5	Paper slot - Recycling	1	Common Area	Athletic Offices - Suite
IN	Cintas	1	In2	Triple2 / Trash & Paper & Cans	4	Common Area	Athletic Offices - Conference Rooms
IN	Cintas	1	Tan - no label	Trash	1	Common Area	Athletic Offices - Conference Rooms
IN	Cintas	1	In4t	Trash	2	Common Area	Athletic Offices - Conference Rooms
IN	Cintas	1	Stainless Steel bin	Trash	4	Common Area	Athletic Offices - Conference Rooms
IN	Cintas	Top	Tan - no label	Trash	1	Common Area	Bar Level
IN	Cintas	Top	Cans & Bottle Cont	Recycle	1	Common Area	Bar Level
IN	Cintas	Top	In4t	Trash	1	Common Area	Bar Level
IN	Cintas	Top	Green Food Waste	Recycle	1	Common Area	Bar Level
IN	Cintas	1	In4t	Trash	3	Common Area	Court
IN	Cintas	1	In4s	Trash	2	Common Area	Court
IN	Cintas	1	Ex4 (no hole)	Trash	1	Common Area	Court
IN	Cintas	1	Tan - no label	Trash	1	Common Area	Court
IN	Cintas	1	In3t	Recycle	1	Common Area	Court
IN	Cintas	1	In1	Triple1 / Cans & Paper & Trash	1	Common Area	Court
IN	Cintas	1	In2	Triple2 / Trash & Paper & Cans	1	Common Area	Court
IN	Cintas	1	Industrial Waste	Trash	3	Common Area	Court
IN	CLC - Digital Productions	3	In3s	Recycle	5	Office	
IN	CLC - Digital Productions	3	In4s	Trash	5	Office	
IN	CLC - Media Lab	3	In3s	Recycle	2	Office	
IN	CLC - Media Lab	3	In4s	Trash	2	Office	
IN	CLC - Media Lab	3	In4t	Trash	1	Office	
IN	CLC	4	In4t	Trash	8	Classrooms	
IN	CLC	4	In2	Triple2 / Trash & Paper & Cans	2	Hallway	
IN	CLC	4	Ex6	Trash	2	Hallway	
IN	CLC	4	In4t	Trash	3	Hallway	
IN	CLC	4	In5	Paper slot - Recycling	1	Hallway	
IN	CLC	5	photo 7 - 8/4	Trash	1	Hallway	
IN	CLC	5	Ex6	Trash	1	Hallway	
IN	CLC	5	In2	Triple2 / Trash & Paper & Cans	2	Hallway	
IN	CLC	5	In4t	Trash	2	Hallway	
IN	CLC	5	In5	Paper slot - Recycling	1	Office	
IN	CLC	5	photo 16 - 8/4	Trash	1	Office	
IN	CLC	5	In4t	Trash	14	Office	
IN	CLC	5	In3s	Recycle	15	Office	
IN	CLC	5	In4s	Trash	17	Office	
EX	CLC - Entrance	4	Ex3	Duel / Trash & Recycling	1	Exterior	Water Bottles in Recycling side
EX	CLC - Entrance	4	Ex3	Duel / Trash & Recycling	1	Exterior	Trash Both Sides
IN	CLC - Kennedy Aud	4	In4t	Trash	1	Common Area	
IN	CLC - Kennedy Aud	4	In2	Triple2 / Trash & Paper & Cans	1	Common Area	
IN	CLC - Veterans Center	5	In2	Triple2 / Trash & Paper & Cans	1	Office	
IN	CLC - Veterans Center	5	In4s	Trash	5	Office	
IN	CLC - Veterans Center	5	In4t	Trash	3	Office	
IN	CLC - Veterans Center	5	In3s	Recycle	1	Office	
EX	Cohen Center	G	In7	Recycle	1	Exterior	on sidewalk near Cohen / Plastic Bottles
EX	Cohen Center	G	In8	Trash	1	Exterior	on sidewalk near Cohen
EX	Cohen Center	G	Ex5	Trash	1	Exterior	Cohen entrance
EX	Cohen Center	G	Rumpke Brown	Trash	1	Exterior	East Side
EX	Cohen Center	G	Rumpke Green	Recycle	1	Exterior	East Side
EX	Cohen Center	G	Brown, Hand lid	Trash	1	Exterior	East Side - Court Yard - Luke Photo
EX	Cohen Center	G	Ex5	Trash	1	Exterior	Backside - Losading Dock
EX	Cohen Center	G	Ex4	Recycle	1	Exterior	Backside - Losading Dock
EX	Cohen Center	G	Ex5	Trash	1	Exterior	R-2 Under Power Pole
EX	Cohen Center	G	Ex5	Trash	1	Exterior	R-2 Under Power Pole
EX	Cohen Center	G	Ex4	Recycle	1	Exterior	West Side Cohen
EX	Cohen Center	G	Ex5	Trash	1	Exterior	West Side Cohen
EX	Cohen Center	G	Ex4	Recycle	1	Exterior	West Side Cohen - Entrance
EX	Cohen Center	G	Ex5	Trash	1	Exterior	West Side Cohen - Entrance

APPENDIX E: Waste and Recycling Audit - Spreadsheet

EX / IN	EX Location / IN Building	Floor	Container Type	Recycle / Trash	Quantity	Area	Notes
EX	Cohen Center	G	Ex5	Trash	1	Exterior	Cohen Art Gallery
IN	Cohen Center	0	In4s	Trash	1	Common Area	Laundry
IN	Cohen Center	0	In4t	Trash	1	Kitchen	
IN	Cohen Center	0	In2	Triple2 / Trash & Paper & Cans	1	Hallway	
IN	Cohen Center	0	In4s	Trash	1	Common Area	Conference Room
IN	Cohen Center	0	In4t	Trash	1	Common Area	mail room
IN	Cohen Center	0	Shredder	Shredder - paper	1	Common Area	mail room
IN	Cohen Center	0	In4t	Trash	3	Classrooms	
IN	Cohen Center	0	In3s	Recycle	3	Classrooms	
IN	Cohen Center	0	In4s	Trash	3	Classrooms	
IN	Cohen Center	0	Industrial circular	Trash	22	Classrooms	
IN	Cohen Center	0	Gray Waste Bin	Trash	1	Classrooms	
IN	Cohen Center	0	In4s	Trash	1	Office	
IN	Cohen Center	0	In3s	Recycle	1	Office	
IN	Cohen Center	1	In4s	Trash	1	Common Area	Cohen entrance
IN	Cohen Center	1	In2	Recycle	1	Common Area	Cohen entrance
IN	Cohen Center	1	Ex6	Trash	1	Common Area	Cohen entrance
IN	Cohen Center	1	Blue Outdoor Bin	Recycle	1	Common Area	Cohen entrance
IN	Cohen Center	1	In1	Triple1 / Cans & Paper & Trash	1	Common Area	Nurse Entrance - Cohen
IN	Cohen Center	1	In1	Triple1 / Cans & Paper & Trash	2	Hallway	
IN	Cohen Center	1	In2	Triple2 / Trash & Paper & Cans	2	Hallway	
IN	Cohen Center	1	In4t	Trash	5	Hallway	
IN	Cohen Center	1	In3s	Recycle	1	Office	Study Rooms
IN	Cohen Center	1	In4s	Trash	49	Office	
IN	Cohen Center	1	In3s	Recycle	42	Office	
IN	Cohen Center	1	In4t	Trash	2	Office	
IN	Cohen Center	1	Industrial Waste	Trash	1	Office	
IN	Cohen Center	1	In4s	Trash	2	Common Area	Copy Room
IN	Cohen Center	1	In4t	Trash	1	Common Area	Copy Room
IN	Cohen Center	1	In4s	Trash	12	Office	Social Services
IN	Cohen Center	1	In3s	Recycle	12	Office	Social Services
IN	Cohen Center	1	In4s	Trash	1	Kitchen	
IN	Cohen Center	1	In4t	Trash	1	Common Area	Conference Room
IN	Cohen Center	1	Gold Waste Bin	Trash	1	Common Area	Conference Room
IN	Cohen Center	1	In4t	Trash	1	Common Area	Art Gallery
IN	Cohen Center	1	In3s	Recycle	3	Classrooms	
IN	Cohen Center	1	In4t	Trash	10	Classrooms	
IN	Cohen Center	1	Circular Brown	Trash	3	Classrooms	
IN	Cohen Center	1	Industrial Waste	Trash	2	Classrooms	
IN	Cohen Center	1	Circular Metal	Trash	1	Classrooms	
IN	Cohen Center	1	Rumpke Green	Recycle	1	Classrooms	
IN	Cohen Center	1	Rumpke Brown	Trash	1	Classrooms	
IN	Cohen Center	1	In2	Triple2 / Trash & Paper & Cans	2	Office	Electrical room
IN	Cohen Center	2	In4t	Trash	1	Hallway	
IN	Cohen Center	2	In1	Triple1 / Cans & Paper & Trash	1	Office	Psych offices
IN	Cohen Center	2	In4s	Trash	7	Office	Psych offices
IN	Cohen Center	2	In3s	Recycle	4	Office	Psych offices
IN	Cohen Center	2	In4t	Trash	5	Office	Psych offices
IN	Cohen Center	2	Cans & Bottle Cont	Recycle	1	Office	Psych offices
IN	Cohen Center	2	purple bin	recycle	1	Office	Psych offices
IN	Cohen Center	2	In2	Triple2 / Trash & Paper & Cans	1	Common Area	Psych Hall
IN	Cohen Center	2	In4t	Trash	2	Common Area	Psych Hall
IN	Cohen Center	2	In3s	Recycle	2	Classrooms	Psych classrooms
IN	Cohen Center	2	In4t	Trash	4	Classrooms	Psych classrooms
EX	Composting	G	Ex5	Trash	1	Exterior	Plant waste
EX	Composting	G	Ex4	Recycle	1	Exterior	Newspaper
IN	Edgecliff	0	In3s	Recycle	5	Classrooms	Practice Rooms
IN	Edgecliff	0	In4t	Trash	5	Classrooms	Practice Rooms
IN	Edgecliff	0	In2	Triple2 / Trash & Paper & Cans	1	Hallway	
IN	Edgecliff	1	In2	Triple2 / Trash & Paper & Cans	1	Hallway	
IN	Edgecliff	1	In3s	Recycle	6	Office	
IN	Edgecliff	1	In4s	Trash	6	Office	
IN	Edgecliff	1	In4t	Trash	2	Classrooms	
IN	Edgecliff	1	In3s	Recycle	1	Classrooms	
IN	Edgecliff	2	In1	Triple1 / Cans & Paper & Trash	1	Hallway	
IN	Edgecliff	2	In3s	Recycle	6	Classrooms	
IN	Edgecliff	2	In4s	Trash	6	Classrooms	
EX	Edgecliff	G	Ex4	Recycle	1	Exterior	Water Bottles
EX	Edgecliff	G	Ex5	Trash	1	Exterior	
EX	Flynn Bldg	1	Ex4	Recycle	1	Exterior	
EX	Flynn Bldg	1	Ex5	Trash	1	Exterior	
IN	Flynn Bldg	1	In3s	Recycle	7	Office	
IN	Flynn Bldg	1	In4s	Trash	3	Office	
IN	Flynn Bldg	1	In3t	Recycle	6	Common Area	
IN	Flynn Bldg	1	In4t	Trash	4	Common Area	
IN	Flynn Bldg	1	In5	Paper slot - Recycling	2	Common Area	
IN	Flynn Bldg	1	In2	Triple2 / Trash & Paper & Cans	1	Common Area	
IN	Flynn Bldg	1	Shredder	Shredder - paper	4	Common Area	
IN	Flynn Bldg	1	Cans & Bottle Cont	Recycle	1	Common Area	
IN	Gallagher	0	In11	Trash	6	Common Area	
IN	Gallagher	0	In9	Recycle	5	Common Area	
IN	Gallagher	0	In5	Paper slot - Recycling	1	Common Area	
IN	Gallagher	0	In3s	Recycle	1	Common Area	
IN	Gallagher	0	In4s	Trash	1	Common Area	
IN	Gallagher	1	In4t	Trash	5	Common Area	
IN	Gallagher	1	In10	Trash	6	Common Area	
IN	Gallagher	1	In3t	Recycle	2	Common Area	
IN	Gallagher	1	In6	Trash	2	Common Area	
IN	Gallagher	2	In11	Trash	3	Common Area	
IN	Gallagher	2	In9	Paper slot - Recycling	4	Common Area	

APPENDIX E: Waste and Recycling Audit - Spreadsheet

EX / IN	EX Location / IN Building	Floor	Container Type	Recycle / Trash	Quantity	Area	Notes
IN	Gallagher	2	In3t	Recycle	2	Common Area	
IN	Gallagher	2	Tan - no label	Trash	1	Common Area	
IN	Gallagher	2	In4s	Trash	21	Common Area	
IN	Gallagher	2	In4t	Trash	2	Common Area	
IN	Gallagher	2	In3s	Recycle	16	Common Area	
IN	Gallagher	2	In5	Paper slot - Recycling	1	Common Area	
IN	Gallagher	3	In11	Trash	4	Common Area	
IN	Gallagher	3	In9	Paper slot - Recycling	3	Common Area	
IN	Gallagher	3	In4t	Trash	3	Common Area	
IN	Gallagher	3	In10	Trash	3	Common Area	
IN	Gallagher	3	In6	Trash	2	Common Area	
IN	Gallagher	3	In3s	Recycle	7	Common Area	
IN	Gallagher	3	In4s	Trash	13	Common Area	
IN	Gallagher	3	In3t	Recycle	1	Common Area	
EX	Gallagher	G	Ex5	Trash	2	Exterior	
EX	Gallagher	G	In7	Recycle	1	Exterior	
EX	Gallagher	G	Ex4	Recycle	1	Exterior	
IN	Hailstones	0	In2	Triple2 / Trash & Paper & Cans	6	Hallway	
IN	Hailstones	0	In4t	Trash	1	Common Area	
IN	Hailstones	0	In5	Paper slot - Recycling	1	Common Area	
IN	Hailstones	0	In4t	Trash	14	Classrooms	
EX	Hailstones	1	Ex4	Recycle	1	Exterior	Trash
EX	Hailstones	1	Ex5	Trash	1	Exterior	Trash
IN	Hailstones	1	photo 10 - 8/4	Trash	2	Hallway	
IN	Hailstones	1	In2	Triple2 / Trash & Paper & Cans	1	Hallway	
IN	Hailstones	1	In3t	Recycle	1	Classrooms	
IN	Hailstones	1	In4t	Trash	2	Classrooms	
IN	Hailstones	1	In4s	Trash	5	Office	
IN	Hailstones	1	In4s	Trash	2	Office	
IN	Hailstones	1	photo 10 - 8/4	Trash	1	Classrooms	
IN	Hailstones	1	photo 11 - 8/4	Recycle	1	Classrooms	
IN	Hailstones	1	In3s	Recycle	2	Classrooms	
IN	Hailstones	1	In4s	Trash	2	Classrooms	
IN	Hailstones	2	In3s	Recycle	14	Office	
IN	Hailstones	2	In4s	Trash	14	Office	
IN	Hailstones	2	In4t	Trash	2	Office	
IN	Hailstones	2	In5	Paper slot - Recycling	1	Office	
IN	Hailstones	2	wire bin	Trash	1	Office	
IN	Hailstones	3	In3s	Recycle	22	Office	
IN	Hailstones	3	In4s	Trash	22	Office	
IN	Hailstones	3	Shredder	Shredder - paper	1	Office	
IN	Hailstones	3	In1	Triple1 / Cans & Paper & Trash	1	Office	
IN	Hailstones	3	In4t	Trash	1	Office	
EX	Hailstones	G	Ex4	Recycle	1	Exterior	
EX	Hailstones	G	Ex5	Trash	1	Exterior	
IN	Heidt Family Champions Center	1	In3s	Recycle	8	Common Area	
IN	Heidt Family Champions Center	1	In4s	Trash	9	Common Area	
IN	Heidt Family Champions Center	1	In4t	Trash	20	Common Area	
IN	Heidt Family Champions Center	1	Trash can	Trash	1	Common Area	
EX	Heidt Family Champions Center	G	Ex4	Recycle	2	Exterior	
EX	Heidt Family Champions Center	G	Ex5	Trash	2	Exterior	
EX	Heidt Family Champions Center	G	Rumpke Brown	Trash	1	Exterior	
IN	Hinkle	1	In2	Triple2 / Trash & Paper & Cans	1	Common Area	Entryway
IN	Hinkle	1	In4t	Trash	1	Hallway	
IN	Hinkle	1	Cans & Bottle Cont	Recycle	2	Common Area	
IN	Hinkle	1	In3s	Recycle	1	Common Area	
IN	Hinkle	1	Large Blue Recycle	Recycle	2	Common Area	Mail Room and Faculty Lounge
IN	Hinkle	1	In4s	Trash	1	Common Area	
IN	Hinkle	1	In5	Paper slot - Recycling	1	Common Area	
IN	Hinkle	1	In3s	Recycle	23	Office	
IN	Hinkle	1	In4s	Trash	23	Office	
IN	Hinkle	1	Large Blue Recycle	Recycle	1	Office	Front Office
IN	Hinkle	1	In4s	Trash	2	Office	Front Office
IN	Hinkle	1	Shredder	Shredder - paper	1	Office	Front Office
IN	Hinkle	2	In5	Paper slot - Recycling	1	Common Area	Copy Room
IN	Hinkle	2	In3s	Trash	1	Conference Room	
IN	Hinkle	2	In4t	Trash	2	Conference Room	
IN	Hinkle	2	In3s	Recycle	37	Office	
IN	Hinkle	2	In4s	Trash	37	Office	
IN	Hinkle	3	In2	Triple2 / Trash & Paper & Cans	1	Hallway	
IN	Hinkle	3	In4t	Trash	1	Hallway	
IN	Hinkle	3	In5	Paper slot - Recycling	1	Common Area	Adjunct Lounge Area
IN	Hinkle	3	In4t	Trash	1	Common Area	Adjunct Lounge Area
IN	Hinkle	3	XU Blue Container	Recycle	2	Common Area	Adjunct Lounge Area
IN	Hinkle	3	In3s	Recycle	22	Office	
IN	Hinkle	3	In4s	Trash	22	Office	
EX	Hinkle	G	In7	Recycle	1	Exterior	
EX	Hinkle	G	Ex5	Trash	1	Exterior	
EX	Hinkle	G	Ex5	Trash	1	Exterior	
EX	Hinkle	G	In7	Recycle	1	Exterior	
IN	HUB	0	In13	Only Trash	6	Common Area	HUB Gym
IN	HUB	0	In13	Duel / LF & Mixed Recycling	1	Hallway	HUB Gym Hallway
IN	HUB	0	In13	Duel / LF & Mixed Recycling	1	Common Area	HUB Dance
IN	HUB	0	Industrial Waste	Trash	2	Hallway	Basement Hallway
IN	HUB	1	In1	Triple1 / Cans & Paper & Trash	1	Common Area	Commons Laundry
IN	HUB	1	Rumpke Brown	Trash	1	Common Area	HUB Entrance
IN	HUB	1	In1	Triple1 / Cans & Paper & Trash	1	Common Area	HUB Food Area
IN	HUB	1	Cardboard	Recycle	1	Common Area	HUB Food Area
IN	HUB	1	In13	Duel / LF & Mixed Recycling	1	Common Area	HUB Entrance
IN	HUB	1	In12	Trash	1	Classrooms	

APPENDIX E: Waste and Recycling Audit - Spreadsheet

EX / IN	EX Location / IN Building	Floor	Container Type	Recycle / Trash	Quantity	Area	Notes
IN	HUB	1	In3s	Recycle	1	Classrooms	
IN	HUB	1	In12	Trash	1	Common Area	HUB Entrance
IN	HUB	1	In13	Duel / LF & Mixed Recycling	4	Common Area	HUB Gym (trash only in bins)
IN	HUB	1	In4s	Trash	1	Common Area	Tri-Health entrance
IN	HUB	1	In3s	Recycle	13	Office	Tri-Health offices
IN	HUB	1	In4s	Trash	10	Office	Tri-Health offices
IN	HUB	2	In4t	Trash	3	Common Area	HUB Courts
IN	HUB	2	In13	Duel / LF & Mixed Recycling	1	Common Area	HUB Courts
IN	HUB	2	In13	Duel / LF & Mixed Recycling	1	Classrooms	
IN	HUB	2	In13	Mixed Recycling Only	4	Classrooms	
IN	HUB	2	In4s	Trash	3	Classrooms	
IN	HUB	2	In3s	Recycling	2	Classrooms	
IN	HUB	2	In13	Duel / LF & Mixed Recycling	2	Hallway	
IN	HUB	3	In13	Duel / LF & Mixed Recycling	1	Common Area	HUB Track
IN	HUB	3	In3s	Recycle	6	Classrooms	
IN	HUB	3	In4s	Trash	4	Classrooms	
IN	HUB	3	In1	Triple1 / Cans & Paper & Trash	1	Hallway	
IN	HUB	3	In13	Duel / LF & Mixed Recycling	3	Hallway	
IN	HUB	3	In4s	Trash	1	Classrooms	Labroom
IN	HUB	3	In3s	Recycle	12	Common Area	Study Rooms
IN	HUB	4	cabinet bins w/hole	Trash	1	Common Area	Conference Room
IN	HUB	4	In15	Triple3 / Trash & Mixed Rec & Trash	1	Common Area	Conference Room
IN	HUB	4	In13	Mixed Recycling Only	1	Common Area	Conference Room
IN	HUB	4	cabinet bins w/hole	Trash	1	Hallway	
IN	HUB	4	In3s	Recycle	2	Classrooms	HUB Labs
IN	HUB	4	In3s	Recycle	6	Common Area	Study Rooms
IN	Husman - Residential	0	Trash Closet	2 Trash & 1 Recycling	1	Common Area	
IN	Husman - Residential	0	In3t	Recycling	1	Common Area	within the Trash Closet
IN	Husman - Residential	0	In4t	Trash	1	Common Area	Laundry
IN	Husman - Residential	0	In1	Triple1 / Cans & Paper & Trash	2	Common Area	gathering room
IN	Husman - Residential	0	In4t	Trash	1	Common Area	Study Lounge
IN	Husman - Residential	0	In3t	Recycle	1	Common Area	Basement
IN	Husman - Residential	0	In4t	Trash	1	Common Area	Basement
IN	Husman - Residential	1	In4t	Trash	1	Common Area	Lobby
IN	Husman - Residential	1	In1	Triple1 / Cans & Paper & Trash	1	Common Area	Lobby
IN	Husman - Residential	1	Trash Closet	2 Trash & 1 Recycling	1	Common Area	Color Bags - White / lack of signage
IN	Husman - Residential	1	In3s	Recycling	33	Residential	
IN	Husman - Residential	1	In4s	Trash	33	Residential	
IN	Husman - Residential	2	Trash Closet	2 Trash & 1 Recycling	1	Common Area	
IN	Husman - Residential	2	In3t	Recycling	1	Common Area	within the Trash Closet
IN	Husman - Residential	2	In3s	Recycling	38	Residential	
IN	Husman - Residential	2	In4s	Trash	38	Residential	
IN	Husman - Residential	2	In4t	Trash	1	Common Area	gathering room
IN	Husman - Residential	2	In1	Triple1 / Cans & Paper & Trash	1	Common Area	gathering room
IN	Husman - Residential	3	Trash Closet	2 Trash & 1 Recycling	1	Common Area	
IN	Husman - Residential	3	In3t	Recycling	1	Common Area	within the Trash Closet
IN	Husman - Residential	3	In3s	Recycling	38	Residential	
IN	Husman - Residential	3	In4s	Trash	38	Residential	
IN	Husman - Residential	3	In4t	Trash	1	Common Area	gathering room
IN	Husman - Residential	3	In1	Triple1 / Cans & Paper & Trash	1	Common Area	gathering room
IN	Husman - Residential	4	Trash Closet	2 Trash & 1 Recycling	1	Common Area	
IN	Husman - Residential	4	In3t	Recycling	1	Common Area	within the Trash Closet
IN	Husman - Residential	4	In3s	Recycling	38	Residential	
IN	Husman - Residential	4	In4s	Trash	38	Residential	
IN	Husman - Residential	4	In4t	Trash	1	Common Area	gathering room
IN	Husman - Residential	4	In1	Triple1 / Cans & Paper & Trash	1	Common Area	gathering room
EX	Husman - Residential	G	Ex5	Trash	1	Exterior	Trash
EX	Husman - Residential	G	Ex4	Recycle	1	Exterior	Plastic Bottles
EX	Husman / Kuhlman	G	Ex5	Trash	1	Exterior	
IN	Innovation Center - Book Depot	1	In4s	Trash	3	Common Area	
IN	Innovation Center - Book Depot	1	photo 12 - 8/10	Trash	3	Common Area	Wheeled gray tub
EX	Innovation Center - Book Depot	1	photo 12 & 13 - 8/10	Recycle	Cardboard	Dock	loose cardboard recycled
IN	Innovation Center - Project Search	1	In4s	Trash	3	Office	
IN	Innovation Center - Project Search	1	In3s	Recycle	3	Office	
IN	Innovation Center - Project Search	1	In4t	Trash	2	Common Area	
IN	Innovation Center - Project Search	1	Shredder	Shredder - paper	1	Common Area	
IN	Innovation Center - Project Search	1	compactor	Trash	1	Common Area	
IN	Justice	1	In13	Duel / LF & Mixed Recycling	2	Hallway	
IN	Justice	1	photo 1 - 8/3	Trash	1	Hallway	
IN	Justice	1	photo 2 - 8/3	Trash	1	Common Area	
IN	Justice	1	In3s	Recycle	15	Office	
IN	Justice	1	In3T	Recycle	1	Conference Room	
IN	Justice	1	In4T	Trash	1	Common Area	
EX	Justice - Backside	1	Ex3	Duel / Trash & Recycling	1	Exterior	Water Bottles in Recycling side
EX	Justice Center	2	Ex2	Trash	1	Exterior	
EX	Justice Court yard	2	Ex3	Duel / Trash & Recycling	1	Exterior	Water Bottles in Recycling side
EX	Justice Courtyard	1	Ex1	Recycle	1	Exterior	
EX	Justice Courtyard	1	Ex2	Trash	1	Exterior	
EX	Justice Front	1	Ex 3	Duel / Trash & Recycling	2	Exterior	
IN	Justice Hall -Residential	1A	In4t	Trash	2	Common Area	
IN	Justice Hall -Residential	1A	pair:Rec/Tr Station	Pair - Recycle and Trash	2	Common Area	Built-in - See photo 2 - 8/16
IN	Justice Hall -Residential	1A	In3s	Recycle	12	Residential	
IN	Justice Hall -Residential	1A	In4s	Trash	12	Residential	
IN	Justice Hall -Residential	1B	In4t	Trash	2	Common Area	Laundry
IN	Justice Hall -Residential	1B	pair:Rec/Tr Station	Pair - Recycle and Trash	1	Common Area	
IN	Justice Hall -Residential	1B	Tall Gray Tub	Trash	1	Common Area	Tub Gray - Laundry
IN	Justice Hall -Residential	1B	In3s	Recycle	5	Residential	
IN	Justice Hall -Residential	1B	In4s	Trash	5	Residential	
IN	Justice Hall -Residential	1C	In4t	Trash	1	Common Area	
IN	Justice Hall -Residential	1C	pair:Rec/Tr Station	Pair - Recycle and Trash	1	Common Area	

APPENDIX E: Waste and Recycling Audit - Spreadsheet

EX / IN	EX Location / IN Building	Floor	Container Type	Recycle / Trash	Quantity	Area	Notes
IN	Justice Hall -Residential	1C	In3s	Recycle	6	Residential	
IN	Justice Hall -Residential	1C	In4s	Trash	6	Residential	
IN	Justice Hall -Residential	2A	In4t	Trash	2	Common Area	
IN	Justice Hall -Residential	2A	pair:Rec/Tr Station	Pair - Recycle and Trash	2	Common Area	
IN	Justice Hall -Residential	2A	photo 4 - 8/16	Trash	1	Kitchen	dome swing trash can
IN	Justice Hall -Residential	2A	In3s	Recycle	12	Residential	
IN	Justice Hall -Residential	2A	In4s	Trash	12	Residential	
IN	Justice Hall -Residential	2B	In4t	Trash	1	Common Area	
IN	Justice Hall -Residential	2B	pair:Rec/Tr Station	Pair - Recycle and Trash	1	Common Area	
IN	Justice Hall -Residential	2B	In3s	Recycle	6	Residential	
IN	Justice Hall -Residential	2B	In4s	Trash	6	Residential	
IN	Justice Hall -Residential	2C	In4t	Trash	1	Common Area	
IN	Justice Hall -Residential	2C	pair:Rec/Tr Station	Pair - Recycle and Trash	1	Common Area	
IN	Justice Hall -Residential	2C	In3s	Recycle	6	Residential	
IN	Justice Hall -Residential	2C	In4s	Trash	6	Residential	
IN	Justice Hall -Residential	3A	In4t	Trash	2	Common Area	
IN	Justice Hall -Residential	3A	pair:Rec/Tr Station	Pair - Recycle and Trash	2	Common Area	
IN	Justice Hall -Residential	3A	In3s	Recycle	12	Residential	
IN	Justice Hall -Residential	3A	In4s	Trash	12	Residential	
IN	Justice Hall -Residential	3B	In4t	Trash	1	Common Area	
IN	Justice Hall -Residential	3B	pair:Rec/Tr Station	Pair - Recycle and Trash	1	Common Area	
IN	Justice Hall -Residential	3B	In3s	Recycle	6	Residential	
IN	Justice Hall -Residential	3B	In4s	Trash	6	Residential	
IN	Justice Hall -Residential	3C	In4t	Trash	1	Common Area	
IN	Justice Hall -Residential	3C	In3t	Recycle	1	Common Area	
IN	Justice Hall -Residential	3C	pair:Rec/Tr Station	Pair - Recycle and Trash	1	Common Area	
IN	Justice Hall -Residential	3C	In3s	Recycle	6	Residential	
IN	Justice Hall -Residential	3C	In4s	Trash	6	Residential	
IN	Justice Hall -Residential	4A	In4t	Trash	2	Common Area	
IN	Justice Hall -Residential	4A	pair:Rec/Tr Station	Pair - Recycle and Trash	2	Common Area	
IN	Justice Hall -Residential	4A	In3s		1	Common Area	
IN	Justice Hall -Residential	4A	In3s	Recycle	12	Residential	
IN	Justice Hall -Residential	4A	In4s	Trash	12	Residential	
IN	Justice Hall -Residential	4B	In4t	Trash	1	Common Area	
IN	Justice Hall -Residential	4B	pair:Rec/Tr Station	Pair - Recycle and Trash	1	Common Area	
IN	Justice Hall -Residential	4B	In3s	Recycle	6	Residential	
IN	Justice Hall -Residential	4B	In4s	Trash	6	Residential	
IN	Justice Hall -Residential	5A	In4t	Trash	1	Common Area	
IN	Justice Hall -Residential	5A	pair:Rec/Tr Station	Pair - Recycle and Trash	1	Common Area	
IN	Justice Hall -Residential	5A	In3s	Recycle	6	Residential	
IN	Justice Hall -Residential	5A	In4s	Trash	6	Residential	
IN	Justice Hall -Residential	5B	pair:Rec/Tr Station	Pair - Recycle and Trash	1	Common Area	
IN	Justice Hall -Residential	5B	In3s	Recycle	6	Residential	
IN	Justice Hall -Residential	5B	In4s	Trash	6	Residential	
EX	Kohlhepp	G	Ex1	Recycle	2	Exterior	Recyclables
EX	Kohlhepp	G	Ex2	Trash	2	Exterior	Trash and food waste
EX	Kuhlman - entrance	G	Ex5	Trash	3	Exterior	
EX	Kuhlman - entrance	G	Ex4	Recycle	1	Exterior	Bottles and Cans
EX	Kuhlman - entrance	G	In7	Recycle	1	Exterior	Cardboard
IN	Kuhlman - Residential	0	In3s	Recycle	13	Residential	dorm rooms
IN	Kuhlman - Residential	0	In4s	Trash	13	Residential	dorm rooms
IN	Kuhlman - Residential	0	Ex4 (no hole)	Trash	1	Common Area	Laundry
IN	Kuhlman - Residential	0	In4t	Trash	1	Common Area	Laundry
IN	Kuhlman - Residential	0	In1	Triple1 / Cans & Paper & Trash	1	Hallway	
IN	Kuhlman - Residential	0	In1	Triple1 / Cans & Paper & Trash	1	Common Area	Rec Room
IN	Kuhlman - Residential	0	In4t	Trash	1	Common Area	Rec Room
IN	Kuhlman - Residential	0	Rumpke Brown	Trash	10	Common Area	Trash Area
IN	Kuhlman - Residential	0	Rumpke Green	Recycle	5	Common Area	Trash Area
IN	Kuhlman - Residential	0	Cardboard	Recycle	Cardboard	Common Area	Trash Area
IN	Kuhlman - Residential	1	In1	Triple1 / Cans & Paper & Trash	1	Common Area	Lobby
IN	Kuhlman - Residential	1	In4s	Trash	2	Kitchen	food waste
IN	Kuhlman - Residential	1	In3s	Recycle	1	Office	front Desk
IN	Kuhlman - Residential	1	In4s	Trash	1	Office	front Desk
IN	Kuhlman - Residential	1	In3s	Recycle	33	Residential	dorm rooms
IN	Kuhlman - Residential	1	In4s	Trash	33	Residential	dorm rooms
IN	Kuhlman - Residential	1	Industrial Bins on Whe	Trash	3	Trash Closet	Trash Closet
IN	Kuhlman - Residential	1	In5	Paper slot - Recycling	1	Trash Closet	Trash Closet
IN	Kuhlman - Residential	1	In3t	Recycle	1	Trash Closet	Trash Closet
IN	Kuhlman - Residential	1	Blue circular Recycle B	Recycle	1	Trash Closet	Trash Closet
IN	Kuhlman - Residential	2	In3s	Recycle	33	Residential	dorm rooms
IN	Kuhlman - Residential	2	In4s	Trash	33	Residential	dorm rooms
IN	Kuhlman - Residential	2	Industrial Bins on Whe	Trash	4	Trash Closet	Trash Closet
IN	Kuhlman - Residential	2	In4s	Trash	2	Trash Closet	Trash Closet
IN	Kuhlman - Residential	2	In3t	Recycle	2	Trash Closet	Trash Closet
IN	Kuhlman - Residential	2	Blue circular Recycle B	Recycle	1	Trash Closet	Trash Closet
IN	Kuhlman - Residential	2	Yellow Bin	Trash	2	Trash Closet	Trash Closet
IN	Kuhlman - Residential	2	In3s	Recycle	1	Common Area	Elevator room
IN	Kuhlman - Residential	2	In4t	Trash	1	Common Area	Elevator room
IN	Kuhlman - Residential	2	In4t	Trash	1	Common Area	Common Room
IN	Kuhlman - Residential	2	In2	Triple2 / Trash & Paper & Cans	1	Common Area	Common Room
IN	Kuhlman - Residential	3	In3s	Recycle	33	Residential	dorm rooms
IN	Kuhlman - Residential	3	In4s	Trash	33	Residential	dorm rooms
IN	Kuhlman - Residential	3	In3t	Recycle	4	Trash Closet	Trash Closet
IN	Kuhlman - Residential	3	Yellow Bin	Trash	1	Trash Closet	Trash Closet
IN	Kuhlman - Residential	3	In4s	Trash	1	Common Area	Elevator room
IN	Kuhlman - Residential	3	In4t	Trash	1	Common Area	Common Room
IN	Kuhlman - Residential	3	In2	Triple2 / Trash & Paper & Cans	1	Common Area	Common Room
IN	Kuhlman - Residential	4	In3s	Recycle	33	Residential	dorm rooms
IN	Kuhlman - Residential	4	In4s	Trash	33	Residential	dorm rooms
IN	Kuhlman - Residential	4	In3t	Recycle	2	Trash Closet	Trash Closet

APPENDIX E: Waste and Recycling Audit - Spreadsheet

EX / IN	EX Location / IN Building	Floor	Container Type	Recycle / Trash	Quantity	Area	Notes
IN	Kuhlman - Residential	4	In4s	Trash	1	Trash Closet	Trash Closet
IN	Kuhlman - Residential	4	Industrial Bins on Whe	Trash	6	Trash Closet	Trash Closet
IN	Kuhlman - Residential	4	In4s	Trash	1	Common Area	Elevator room
IN	Kuhlman - Residential	4	In1	Triple1 / Cans & Paper & Trash	1	Common Area	Common Room
IN	Kuhlman - Residential	5	In3s	Recycle	33	Residential	dorm rooms
IN	Kuhlman - Residential	5	In4s	Trash	33	Residential	dorm rooms
IN	Kuhlman - Residential	5	Yellow Bin	Trash	2	Trash Closet	Trash Closet
IN	Kuhlman - Residential	5	In3t	Recycle	2	Trash Closet	Trash Closet
IN	Kuhlman - Residential	5	In5	Paper slot - Recycling	1	Trash Closet	Trash Closet
IN	Kuhlman - Residential	5	Industrial Bins on Whe	Trash	3	Trash Closet	Trash Closet
IN	Kuhlman - Residential	5	In4t	Trash	1	Common Area	Elevator room
IN	Kuhlman - Residential	5	In1	Triple1 / Cans & Paper & Trash	1	Common Area	Common Room
IN	Kuhlman - Residential	6	In3s	Recycle	33	Residential	dorm rooms
IN	Kuhlman - Residential	6	In4s	Trash	33	Residential	dorm rooms
IN	Kuhlman - Residential	6	In3t	Recycle	2	Trash Closet	Trash Closet
IN	Kuhlman - Residential	6	Blue circular Recycle	Recycle	1	Trash Closet	Trash Closet
IN	Kuhlman - Residential	6	Industrial Bins on Whe	Trash	5	Trash Closet	Trash Closet
IN	Kuhlman - Residential	6	In4t	Trash	1	Common Area	Elevator room
IN	Kuhlman - Residential	6	In1	Triple1 / Cans & Paper & Trash	1	Common Area	Common Room
IN	Lindner	0	In4t	Trash	10	Classrooms	
IN	Lindner	0	In4s	Trash	5	Office	
IN	Lindner	1	In1	Triple1 / Cans & Paper & Trash	2	Common Area	
IN	Lindner	1	In4s	Trash	8	Office	
IN	Lindner	1	In4t	Trash	6	Classrooms	
IN	Lindner	1	In4t	Trash	1	Common Area	
IN	Lindner	1	Blue Bin	Recycle	1	Common Area	
IN	Lindner	1	In4t	Trash	1	Hallway	
IN	Lindner	1	In1	Triple1 / Cans & Paper & Trash	1	Hallway	
IN	Lindner	1	In4t	Trash	1	Office	Dean's Office
IN	Lindner	1	In4s	Trash	1	Office	Dean's Office
IN	Lindner	1	Shredder	Shredder - paper	1	Office	Dean's Office
IN	Lindner	2	In4t	Trash	3	Classrooms	
IN	Lindner	2	In4s	Trash	3	Office	
EX	Lindner	G	Rumpke Brown	Trash	1	Exterior	
EX	Lindner	G	Rumpke Green	Recycle	1	Exterior	
IN	Logan	0	In2	Triple2 / Trash & Paper & Cans	1	Hallway	
IN	Logan	0	In4t	Trash	6	Classrooms	
IN	Logan	0	In4t	Trash	1	Common Area	
IN	Logan	1	In2	Triple2 / Trash & Paper & Cans	1	Hallway	
IN	Logan	1	In4t	Trash	4	Classrooms	
IN	Logan	1	In4s	Trash	8	Office	
IN	Logan	2	In2	Triple2 / Trash & Paper & Cans	1	Hallway	
IN	Logan	2	In4t	Trash	3	Classrooms	
IN	Logan	2	In4s	Trash	1	Office	
IN	Logan	2	Trash Tub	Trash	1	Office	Chemical Supplies Office
EX	Logan	G	Ex5	Trash	1	Exterior	
EX	Logan	G	In7	Recycle	1	Exterior	
EX	Logan/Lindner	G	Ex5	Trash	2	Exterior	
EX	Logan/Lindner	G	In7	Recycle	1	Exterior	
EX	Mail Building	G	Ex5	Trash	1	Exterior	plastic wrap
EX	Mail Building	G	Ex4	Recycling	1	Exterior	paper
IN	Mail Room	1	In2	Triple2 / Trash & Paper & Cans	1	Common Area	plastic
IN	Mail Room	1	In5	Paper slot - Recycling	1	Common Area	
IN	Manor - Residential	0	In4t	Trash	4	Common Area	
IN	Manor - Residential	0	In5	Paper slot - Recycling	1	Common Area	
IN	Manor - Residential	0	In3t	Recycle	1	Common Area	
IN	Manor - Residential	0	Cans & Bottle Cont	Recycle	1	Common Area	
IN	Manor - Residential	1	In4t	Trash	1	Common Area	TV room
IN	Manor - Residential	1	In4s	Trash	2	Common Area	TV room
IN	Manor - Residential	1	Ex5	Trash	1	Common Area	TV room
IN	Manor - Residential	1	In5	Paper slot - Recycling	2	Common Area	TV room
IN	Manor - Residential	1	In4s	Trash	2	Common Area	Manor
IN	Manor - Residential	1	In13	Duel / LF & Mixed Recycling	2	Common Area	Manor
IN	Manor - Residential	1	In4t	Trash	8	Residential	Manor - dorm Rooms
IN	Manor - Residential	1	In4s	Trash	17	Residential	Manor - dorm Rooms
IN	Manor - Residential	1	In3s	Recycle	14	Residential	Manor - dorm Rooms
IN	Manor - Residential	1	In5	Paper slot - Recycling	1	Common Area	Manor
IN	Manor - Residential	1	Compost	Recycle	1	Common Area	Manor
IN	Manor - Residential	2	In4t	Trash	8	Residential	Manor - dorm Rooms
IN	Manor - Residential	2	In4s	Trash	17	Residential	Manor - dorm Rooms
IN	Manor - Residential	2	In3s	Recycle	14	Residential	Manor - dorm Rooms
IN	Manor - Residential	2	In13	Duel / LF & Mixed Recycling	1	Common Area	Manor
IN	McDonald Library	1	In4t	Trash	8	Common Area	
IN	McDonald Library	1	In3s	Recycle	12	Office	
IN	McDonald Library	1	In4s	Trash	12	Office	
IN	McDonald Library	1	In2	Triple2 / Trash & Paper & Cans	2	Office	
IN	McDonald Library	1	photo 13 - 8/4	Recycle	1	Common Area	Small Recycling Bin
IN	McDonald Library	2	In5	Paper slot - Recycling	2	Common Area	
IN	McDonald Library	2	In4t	Trash	5	Common Area	
IN	McDonald Library	2	In3s	Recycle	7	Common Area	
IN	McDonald Library	2	In4s	Trash	5	Common Area	
IN	McDonald Library	3	In4t	Trash	4	Common Area	
IN	McDonald Library	3	In3s	Recycle	10	Common Area	
IN	McDonald Library	3	In4s	Trash	7	Common Area	
IN	McDonald Library	3	photo 15 - 8/4	Trash	1	Common Area	
IN	McDonald Library	3	In1	Triple1 / Cans & Paper & Trash	1	Common Area	
EX	McDonald Library - Entrance	1	Ex4	Recycle	1	Exterior	
EX	McDonald Library - Entrance	1	Ex5	Trash	1	Exterior	
EX	Musketeer Mezzanine	1	Ex3	Duel / Trash & Recycling	1	Exterior	Trash in both sides
IN	Musketeer Mezzanine	1	In1	Triple1 / Cans & Paper & Trash	2	Hallway	

APPENDIX E: Waste and Recycling Audit - Spreadsheet

EX / IN	EX Location / IN Building	Floor	Container Type	Recycle / Trash	Quantity	Area	Notes
IN	Musketeer Mezzanine	1	In3s	Recycle	6	Office	
IN	Musketeer Mezzanine	1	In4s	Trash	5	Office	
IN	Musketeer Mezzanine	1	In3t	Recycle	1	Hallway	
IN	Musketeer Mezzanine	1	In3s	Recycle	9	Office	Bursar
IN	Musketeer Mezzanine	1	In4s	Trash	9	Office	Bursar
IN	Musketeer Mezzanine	1	In3s	Recycle	12	Office	Registrar
IN	Musketeer Mezzanine	1	In4s	Trash	12	Office	Registrar
IN	Musketeer Mezzanine	1	In3s	Recycle	7	Office	Resident Life
IN	Musketeer Mezzanine	1	In4s	Trash	7	Office	Resident Life
IN	Musketeer Mezzanine	1	In1	Triple1 / Cans & Paper & Trash	1	Kitchen	Resident Life
EX	Near Police / Parking Lot	G	Ex5	Trash	1	Exterior	Trash
EX	Phone Tower	G	Ex5	Trash	1	Exterior	Behind Compost
IN	Physical Plant	1	In2	Triple2 / Trash & Paper & Cans	2	Common Area	
IN	Physical Plant	1	Green Rumpke cart	Recycle	2	Common Area	
IN	Physical Plant	1	Brown Rumpke cart	Trash	2	Common Area	
IN	Physical Plant	1	In3s	Recycle	17	Office	
IN	Physical Plant	1	In4s	Trash	7	Office	
IN	Physical Plant	1	In4t	Trash	2	Common Area	
IN	Physical Plant	1	Ex5	Trash	3	Common Area	
IN	Physical Plant	1	photo 12 - 8/10	Trash	1	Common Area	Wheeled gray tub
IN	Police Bldg	1	In3s	Recycle	9	Office	
IN	Police Bldg	1	In4s	Trash	8	Office	
IN	Police Bldg	1	Shredder	Shredder - paper	1	Common Area	
IN	Police Bldg	1	Cans & Bottle Cont	Recycle	1	Common Area	
IN	Police Bldg	1	In1	Triple1 / Cans & Paper & Trash	1	Common Area	
EX	Power Plant	G	Ex5	Trash	1	Exterior	
IN	St. Barbara (ROTC)	0,1,2	In3s	Recycle	3	Office	
IN	St. Barbara (ROTC)	0,1,2	In4s	Trash	5	Office	
IN	St. Barbara (ROTC)	0,1,2	In4t	Trash	6	Common Area	
IN	St. Barbara (ROTC)	1	Shredder	Shredder - paper	1	Common Area	
IN	Schmidt	1	In1	Triple1 / Cans & Paper & Trash	1	Hallway	
IN	Schmidt	1	In4t	Trash	3	Hallway	
IN	Schmidt	1	In4s	Trash	1	Hallway	
IN	Schmidt	1	In12	Trash	1	Common Area	Conference Room
IN	Schmidt	1	In4s	Trash	1	Common Area	Conference Room
IN	Schmidt	1	In3s	Recycle	1	Common Area	Conference Room
IN	Schmidt	1	In4s	Trash	3	Office	
IN	Schmidt	1	In3s	Recycle	3	Office	
IN	Schmidt	1	In1	Triple1 / Cans & Paper & Trash	1	Hallway	
IN	Schmidt	1	In3s	Recycle	2	Office	
IN	Schmidt	1	In4s	Trash	2	Office	
IN	Schmidt	2	In3s	Recycle	1	Common Area	Conference Room
IN	Schmidt	2	In4t	Trash	1	Common Area	Conference Room
IN	Schmidt	2	Industrial Waste	Trash	1	Hallway	next to In1
IN	Schmidt	3	In4s	Trash	1	Hallway	
IN	Schott	1	In1	Triple1 / Cans & Paper & Trash	1	Hallway	
IN	Schott	1	In3s	Recycle	21	Office	
IN	Schott	1	In4s	Trash	17	Office	
IN	Schott	1	In4t	Trash	5	Hallway	
IN	Schott	1	Rumpke Green	Recycle	1	Hallway	
IN	Schott	2	Photo 4 - 8/10	Recycle - Cans and Paper Slot	1	Office	
IN	Schott	2	In3s	Recycle	16	Office	
IN	Schott	2	In4s	Trash	22	Office	
IN	Schott	2	In4t	Trash	3	Hallway	
IN	Schott	2	In3t	Recycle	6	Hallway	
IN	Schott	2	In13	Duel / Recycling & Trash	2	Hallway	
IN	Schott	3	In3s	Recycle	14	Office	
IN	Schott	3	In4s	Trash	14	Office	
IN	Schott	3	In4t	Trash	1	Hallway	
IN	Schott	4	In3s	Recycle	11	Office	
IN	Schott	4	In4s	Trash	11	Office	
IN	Schott	4	In4t	Trash	2	Hallway	
IN	Schott	4	In3t	Recycle	1	Hallway	
IN	Schott	5	In3s	Recycle	11	Office	
IN	Schott	5	In4s	Trash	11	Office	
IN	Schott	5	In4t	Trash	2	Hallway	
IN	Schott	5	Shredder	Shredder - paper	1	Office	
IN	Schott	5	In5	Paper slot - Recycling	1	Common Area	
IN	Schott	6	In3s	Recycle	11	Office	
IN	Schott	6	In4s	Trash	11	Office	
IN	Schott	6	In4t	Trash	2	Hallway	
IN	Schott	6	In3t	Recycle	1	Hallway	
IN	Schott	7	In3s	Recycle	11	Office	
IN	Schott	7	In4s	Trash	11	Office	
IN	Schott	7	In4t	Trash	2	Hallway	
IN	Schott	7	In3t	Recycle	1	Hallway	
IN	Schott	8	In3s	Recycle	10	Office	
IN	Schott	8	In4s	Trash	10	Office	
IN	Schott	8	In4t	Trash	1	Hallway	
IN	Schott	8	In1	Triple1 / Cans & Paper & Trash	1	Hallway	
IN	Schott	9	In3s	Recycle	10	Office	
IN	Schott	9	In4s	Trash	10	Office	
IN	Schott	9	In4t	Trash	1	Hallway	
IN	Schott	10	In4t	Trash	2	Common Area	
IN	Schott	10	In4s	Trash	1	Common Area	
IN	Schott	10	In2	Triple2 / Trash & Paper & Cans	1	Common Area	
IN	Schott	10	Photo 7 - 8/10	Trash	1	Common Area	Gold Can
IN	Schott	10	photo 8 - 8/10	Trash	1	Common Area	Brown with top side flap
IN	Smith	1	In1	Triple1 / Cans & Paper & Trash	4	Hallway	
IN	Smith	1	In4T	Trash	5	Hallway	

APPENDIX E: Waste and Recycling Audit - Spreadsheet

EX / IN	EX Location / IN Building	Floor	Container Type	Recycle / Trash	Quantity	Area	Notes
IN	Smith	1	In4T	Trash	13	Classrooms	
IN	Smith	1	In3s	Recycle	2	Classrooms	
IN	Smith	1	In5	Paper slot - Recycling	1	Common Area	Canteen area
IN	Smith	2	In4T	Trash	4	Classrooms	
IN	Smith	2	In3s	Recycle	3	Classrooms	
IN	Smith	2	In4s	Recycle	2	Classrooms	
IN	Smith	2	In2	Triple2 / Trash & Paper & Cans	3	Classrooms	
IN	Smith	2	photo 7 - 8/3	Trash	3	Kitchen	
IN	Smith	2	In3s	Recycle	1	Kitchen	
IN	Smith	2	In3t	Recycle	2	Office	
IN	Smith	2	In4t	Trash	1	Office	
IN	Smith	2	In3s	Recycle	13	Office	
IN	Smith	2	IN5	Paper slot - Recycling	1	Office	
IN	Smith	2	photo 8 - 8/3	Shredder - paper	1	Office	Shredder
IN	Smith	2	In4t	Trash	1	Common Area	
IN	Smith	2	In4s	Trash	3	Common Area	
IN	Smith	2	In3s	Recycle	7	Office	
IN	Smith	2	In4s	Trash	3	Office	
IN	Smith	2	In3t	Recycle	1	Office	
IN	Smith	2	In4t	Trash	1	Office	
IN	Smith	3	In4t	Trash	1	Hallway	
IN	Smith	3	In2	Triple2 / Trash & Paper & Cans	1	Hallway	
IN	Smith	3	In4t	Trash	5	Classrooms	
IN	Smith	3	In4t	Trash	2	Office	
IN	Smith	3	In3t	Recycle	1	Office	
IN	Smith	3	In3s	Recycle	20	Office	
IN	Smith	3	In3s	Recycle	15	Office	
IN	Smith	3	In4s	Trash	3	Office	
IN	Smith	3	In4t	Trash	1	Office	
IN	Smith	3	In5	Paper slot - Recycling	1	Office	
IN	Smith	4	In2	Triple2 / Trash & Paper & Cans	2	Hallway	
IN	Smith	4	In4t	Trash	1	Hallway	
IN	Smith	4	In4t	Trash	4	Classrooms	
IN	Smith	4	In4t	Trash	1	Office	
IN	Smith	4	photo 7 - 8/3	Trash	1	Kitchen	
IN	Smith	4	In3s	Recycle	20	Office	
IN	Smith	4	photo 9 - 8/3	Shredder - paper	1	Office	Shredder
IN	Smith	4	In4t	Trash	1	Office	
IN	Smith	4	In3s	Recycle	7	Office	
IN	Smith	4	In4s	Trash	5	Office	
EX	Smith - Across from Musk Mess	1	Ex3	Duel / Trash & Recycling	1	Exterior	Trash in both sides
EX	Smith - Circle Entrance	1	Ex3	Duel / Trash & Recycling	1	Exterior	Trash in both sides
EX	Smith - Dean's Entrance	2	Ex3	Duel / Trash & Recycling	1	Exterior	Trash in both sides
EX	Smith - Patio - 4th Floor	4	Ex2	Trash	1	Exterior	
EX	Smith - Woodburn Entrance	2	Ex3	Duel / Trash & Recycling	1	Exterior	Trash in both sides
EX	Soccer Field	G	Ex5	Trash	6	Exterior	
EX	Soccer Field	G	Ex4	Recycle	2	Exterior	
IN	Sports Center	1	In4t	Trash	4	Common Area	
IN	Sycamore - Residential	1	In4s	Trash	16	Residential	dorm rooms
IN	Sycamore - Residential	1	In3s	Recycle	3	Residential	dorm rooms
IN	Sycamore - Residential	2	In4s	Trash	16	Residential	dorm rooms
IN	Sycamore - Residential	2	In3s	Recycle	3	Residential	dorm rooms
IN	Sycamore - Residential	B	In4s	Trash	16	Residential	dorm rooms
IN	Sycamore - Residential	B	In3s	Recycle	3	Residential	dorm rooms
EX	Sycamore - Residential	G	Rumpke Brown	Trash	1	Exterior	
EX	Sycamore - Residential	G	Rumpke Green	Recycle	1	Exterior	
IN	Village - Residential	1	In1	Triple1 / Cans & Paper & Trash	1	Common Area	Common Room
IN	Village - Residential	1	In4s	Trash	1	Common Area	Common Room
IN	Village - Residential	1	In3t	Recycle	1	Office	
IN	Village - Residential	1	In4t	Trash	1	Office	
IN	Village - Residential	1	None	Units not provided with containers	59	Residential	Apartments - on campus
EX	Village - Residential	G	Rumpke Brown	Trash	2	Exterior	Apartments - on campus
EX	Village - Residential	G	Rumpke Green	Recycle	1	Exterior	Apartments - on campus
EX	Village - Residential	G	Rumpke Green	Recycle	1	Exterior	Apartments - on campus
IN	Village -Free Store	1	In3s	Recycle	1	Common Area	
IN	Village -Free Store	1	In8	Trash	1	Common Area	Cardboard
EX	Volleyball Courts	G	Ex5	Trash	1	Exterior	
EX	Volleyball Courts	G	Recycling Container	Recycle	1	Exterior	Labeled
X	X- 1019 Dana Ave	G			City Service		4 Trash / 3 Recycling / City Service
X	X- 1415 Dana Ave	G			City Service		2 Trash / 1 Recycling / City Service
X	X- 1421 Dana Ave	G			City Service		2 Trash / 2 Recycling / City Service
X	X- 1425 Dana Ave	G			City Service		1 Trash / 2 Recycling / City Service
X	X- Commons Apts - Residential				Rumpke Serv	71 units / 274 students	Rumpke Dumpster Service
X	X- Jesuit's Residence						
X	X- University Apts - Residential				City Service	37 students	City Cart Service
					4187	Containers counted	

APPENDIX F: Container Styles Currently On Campus



EX 1

EX 2

EX 3

EX 4

EX 5

EX 6



IN 1

IN 2

IN 3s

IN 3t

IN 4s

IN 4s



IN 5

IN 6

IN 7

IN 8

IN 9

IN 10

APPENDIX F: Container Styles Currently On Campus



IN 11

IN 12



IN 13

IN 14

IN 15



Markers 1

Markers 2



Rumpke Brown

Signage

APPENDIX G: Recommended Container Label

Recycle These

PAPER



Cardboard should fit inside cart.

PLASTICS

Bottles, jugs, tubs and cups



Reattach lid. Yogurt and fruit cups OK.

METAL CANS & CUPS



Non-hazardous, non-flammable material only.

GLASS BOTTLES & JARS



Any color.

CARTONS



Remove caps and straws.

DON'T RECYCLE

- Plastic bags
- Hazardous material such as batteries
- Tanglers such as clothing, dog leashes & garden hoses
- Scrap metal, including pots & pans

Visit www.rumpke.com to learn more about our recycling program. Visit your local Solid Waste District to find where you can dispose of hazardous material.



www.rumpke.com | 1-800-828-8171

RUMPKE