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**Solid Waste Management Coordinating Board (SWMCB)
Multi-Unit Residential Waste Enclosure Project
Final Report**

**Prepared by
Minnesota Waste Wise Foundation**

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Executive Summary

The Minnesota Waste Wise Foundation (Waste Wise) was contracted in 2016 to assist the Solid Waste Management Coordinating Board (SWMCB) in identifying current codes, local ordinances, and preferred designs for improving existing solid waste enclosures at multi-unit residential properties.

SWMCB requested this study to determine if more effective management, control of waste enclosures, and compliance with city enclosure ordinances might advance recycling at multi-unit residential properties.

Over the course of this contract, the Minnesota Waste Wise Foundation:

- Completed interviews with officials in 11 cities in six counties
- Completed 155 enclosure surveys at 91 properties
- Determined that 64 of the 155 enclosures were not in compliance with the applicable city ordinance
- Found that 26 of the 155 enclosures did not contain a recycling receptacle

Objectives for this project included:

- Project planning meeting with SWMCB Multi-use Residential Recycling Subcommittee
- Research Minnesota's current building code and the 10 local communities' ordinances selected in the planning meeting
- Conduct enclosure inventory process
- Develop next steps, recommendations, and final report

Interviews with officials from 11 cities in six counties revealed several common themes:

- Multi-unit residential waste enclosures issues are not a high priority and therefore don't get much attention from city code enforcement officials.
- Aesthetics is the primary driver for waste enclosure ordinances.
- Ordinance language and enforcement is generally handled by different departments which may not communicate well with one another.
- Most enclosure issues are driven by complaints; city officials don't go out looking for enclosure violations.
- In some cities, older buildings are grandfathered in and may not need to comply with the ordinance unless a significant remodel takes place.

The enclosure surveys completed for this project revealed some useful data. The complete aggregated enclosure survey results can be found on Page 47 of this document. Below are a few of the highlights.

- The condition of enclosures is mostly good; signage is mostly inadequate
- The majority of garbage containers are adequately-sized; recycling containers at most sites are too small or not present
- Nuisance issues of smell, critters, and safety concerns were rare
- Nearly half of the waste enclosures surveyed are in compliance with the local ordinance(s) (including 10 for which a grandfather clause is applicable)

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- 21 enclosures were exempt from compliance due to a local ordinance grandfather clause (not including the 10 enclosures mentioned above)

Given the data collected for this project, Waste Wise makes the following recommendations to the SWMCB:

- Encourage cities to adopt the model ordinance language recommended in this document
 - Require recycling services be available to tenants
 - Require adequate signage
- Encourage cities to apply the enclosure enforcement guidelines noted in this document on page 50
- Require recycling compliance language in the multi-unit residential annual city license renewal
- Amend MN Statute 1303.1500 as suggested on page 50-52 of this document
 - Waste Wise recommends that the language of MN Statute 1303.1500 be amended to enforce appropriate usage of the recycling space
 - Waste Wise also recommends the minimum space requirement for apartments be increased to a factor of 0.004
- Create and incorporate language in the 2018 revision of the International Existing Building Code

Introduction

Project Description

The Minnesota Waste Wise Foundation (Waste Wise) was contracted in 2016 to assist the Solid Waste Management Coordinating Board (SWMCB) in identifying current codes, local ordinances and preferred designs for improving existing solid waste enclosures at multi-unit residences. The initial scope of services was to survey city officials about their impression of existing multi-unit residential waste enclosure ordinances, conduct a survey of existing waste enclosures at multi-unit residential properties selected by the SWMCB Multi-unit Residential Subcommittee. Based on these findings, Waste Wise would then craft model enclosure ordinance language, and partner with an architecture firm which would develop enclosure upgrade designs and recommendations that could be distributed to property owners, city and county officials.

After several discussions between the project leads at Waste Wise, architects Richardson, Richter & Associates, Inc., and the SWMCB Multi-unit Residential Subcommittee, an edited scope of services and timeline was agreed upon in May 2017. The two areas where the scope was modified were who would conduct the enclosure surveys, and whether architectural drawings and materials specifications would be helpful to county officials or property managers at this time. First, to ensure consistent data collection, Waste Wise recommended that its staff rather than county staff conduct the enclosure surveys. Second, development of enclosure architectural drawings and materials specifications was postponed until such time as these resources would be needed. The SWMCB Multi-unit Residential Subcommittee reallocated the contract budget accordingly, and approved both scope change recommendations.

Waste Wise worked closely with Richter & Associates, Inc., and the SWMCB Multi-unit Residential Subcommittee to develop the city official questionnaire and the enclosure survey questions. Waste Wise completed implementation, data gathering, and reporting procedures. An iPad was used to collect survey information and photographs were taken of all waste enclosures that are included in the survey.

Document Description

This is the final report for the 2016-2017 SWMCB Multi-Unit Residential Waste Enclosure contract. The report includes a background on research methods and tools, project assumptions, research and findings, recommendations and conclusion. The report also includes results from primary research conducting interviews with city officials and surveying existing enclosures across SWMCB counties. The report contains a separate set of individual recommendations for SWMCB counties concerning the revision and enforcement of their local enclosure ordinances. This report concludes with recommendations for improving multi-unit recycling through drafted model ordinance language, enforcement guidelines, revisions to the International Existing Building Code (IEBC), amendments to MN Statute 1303.1500, and an annual city licensing renewal requirement.

Research Methods and Tools

There were two modes of research employed during this project. Waste Wise contacted city officials to determine local enclosure ordinances and their developmental background. Waste Wise also conducted enclosure surveys to inventory the current recycling containers and spaces available across multi-unit dwellings. The research methods and tools for both modes are outlined in this section.

City Official Interview Methods and Tools

As a way to determine how many cities in each county should be included in this project, Richter & Associates, Inc. provided the total number of multi-unit residential properties in each SWMCB county. This information was used to determine how many cities in each county would be included in the city interview process. Each county member on the SWMCB Multi-unit Residential Subcommittee then decided which city or cities would be included in the project.

Once the cities to be included in the project were known, Waste Wise reached out to the city manager in each city via email and phone. Staff explained the nature of the project and asked for the name and contact information of city staff who would be best positioned to answer the survey questions. Waste Wise completed in-person interviews with nine of the 11 cities involved in the project; two interviews were conducted over the phone.

Enclosure Survey Methods and Tools

Between June 2017 and August 2017, Waste Wise conducted site visits to survey garbage and recycling enclosures across multi-unit dwelling properties within Anoka, Carver, Dakota, Hennepin, Ramsey, and Washington Counties.

SWMCB set a target number of properties to visit for each of the above counties, as well as a list of eligible properties to survey. Waste Wise selected sites at random from each county list to achieve the target survey goals. For some counties, Waste Wise was not able to achieve the target goal, as there were multiple properties listed without observable external enclosures.

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Throughout the course of the survey project, Waste Wise was able to visit 155 enclosures across 91 properties, as well as 17 properties without an observable external enclosure. The total tally of all completed site visits is represented in Figure 1 below.

Enclosure Survey Total Tally

County	Cities Visited	Target # of property visits to complete	# of property visits completed	# of enclosure surveys completed	# of properties visited without external enclosures
Anoka	Blaine	10	9	19	4
Carver	Chaska	5	4	7	4
Dakota	South St. Paul	17	15	17	3
Hennepin	Bloomington, Minneapolis, New Hope, Plymouth	37	29	67	2
Ramsey	St. Paul, Maplewood	23	24	34	1
Washington	Forest Lake	10	10	11	3
		102	91	155	17

Figure 1: Enclosure Survey Total Tally

Waste Wise established a uniform standard for evaluating each enclosure with attention to ease-of-use, education, efficiency, and functionality, and focusing on the following 12 aspects:

1. **Condition of the enclosure.** The enclosures were categorized into three levels: good, fair, or poor. Enclosures in good condition were those that seemed structurally sound and served their function. Enclosures in fair condition needed to be repaired. Enclosures in poor condition needed to be replaced entirely.
2. **Signage outside of the enclosure.** The enclosures were evaluated based on whether they displayed adequate signage outside of the enclosure.
3. **Garbage and recycling proximity.** It was determined whether the garbage was located next to and within five feet of the recycling.
4. **Signage on the containers.** The enclosures were evaluated based on whether they displayed adequate signage on both the trash and recycling containers inside of the enclosure.
5. **Garbage container size sufficiency.** It was determined whether each enclosure had an adequately-sized number of garbage containers for the number of occupants in the building.
6. **Recycling container size sufficiency.** It was determined whether each enclosure had an adequately-sized number of recycling containers for the number of occupants in the building.
7. **Enclosure size sufficiency.** It was determined whether each enclosure was adequately sized for the number of garbage and recycling containers within the space.
8. **Materials placed within enclosure.** It was noted whether each enclosure had all waste materials contained within the enclosure itself.

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9. **Smell or critter issues.** It was noted whether each enclosure presented significant smell or critter issues.
10. **Safety or security concerns.** It was noted whether each enclosure presented significant safety or security concerns.
11. **Adequate space for hauler trucks.** It was noted whether there was adequate space available for hauler trucks to maneuver within and outside of each enclosure.
12. **Enclosure ordinance compliance.** It was determined whether each enclosure complied with every component of its respective city enclosure ordinance.

Assumptions

There were two subjective criteria of note that were applied to this project: the definition of “adequate” for signage outside of enclosures and on the containers within enclosures as well as the definition of “sufficiency” for determining proper garbage and recycling container size. Waste Wise adopted assumptions for both to create an objective standard of evaluation.

Adequate Signage

The criteria for adequate signage were developed off of a standard that guarantees ease of use and comprehension for all residents. Waste Wise adopted this standard from a multifamily recycling best practices study in King County in California. The study recommended that signage be clear with image-based decals on ALL containers.

For signage on garbage containers, this standard was defined by text and images that depict materials that are neither recyclable nor compostable and are accepted by the garbage hauler. For signage on recycling containers, this standard was defined by text and images that depict materials accepted by the recycling hauler. Waste Wise also evaluated whether existing signage could be understood by non-English-speaking residents.

For signage on the outside of the enclosure, this standard was defined by signage that portrayed the use of the enclosure area, as well as signage depicting recyclable and garbage materials. In other words, the signage placed on the containers themselves should be duplicated on the outside of the enclosure.



Example of adequate signage on exterior of enclosure



Example of adequate signage on containers

Any enclosure without such signage on the exterior of the enclosure was deemed to have inadequate signage. Similarly, any enclosure without such signage on both the garbage and recycling containers themselves were deemed to have inadequate signage.

Container Size Sufficiency

Waste Wise researched three different methods (detailed below) of calculating container size sufficiency in order to apply a fair metric to the enclosures surveyed. Waste Wise ultimately determined that the StopWaste formula from Alameda County would be used to determine container size adequacy. The total capacity for waste calculated using the StopWaste formula should be split evenly with a 1:1 ratio between the garbage and recycling containers.

The Hayward formula resulted in a capacity that exceeded the needs of a building, while the Seattle formula resulted in a capacity that was not enough to serve the needs of a building. The StopWaste formula was a reliable medium for accurately calculating the container capacity needs of a building.

For applicatory purposes, the StopWaste method suggests that a 40-unit building should provide five cubic yards for garbage and five cubic yards for recycling. If the enclosure at this building provided six cubic yards for garbage and four cubic yards for recycling, the garbage containers would be adequately-sized, while the recycling containers would not be. Even though the total number of cubic yards is adequate, there is still not enough container capacity provided for recycling.

City of Hayward, California

The first formula was obtained from the City of Hayward in California.

Assuming a collection service of once per week, the total cubic yards provided for garbage containers should equal the total number of dwelling units multiplied by a factor of 1.2 (to accommodate a move in/out factor) multiplied by 32 (gallons of trash generated per unit) divided by 200 (conversion from gallons to cubic yards). The total cubic yards provided for recycling containers should be the same amount.

For a 40-unit building, according to the Hayward formula, the total cubic yards of garbage provided should be $40 \times 1.2 \times 32 \div 200 = 7.68$ cubic yards. The total cubic yards of recycling provided, then, should also be 7.68 cubic yards.

StopWaste, Alameda County

The second formula was obtained from StopWaste, the organization for recycling resources in Alameda County in California.

Assuming an average of three residents per unit and a collection service of once per week, the total cubic yards for all containers should equal the total number of dwelling units multiplied by a factor of

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0.25. This total capacity should then be split evenly between the garbage and recycling. In other words, there should be a 1:1 ratio of garbage and recycling containers.

For a 40-unit building, according to the StopWaste formula, the total cubic yards of all containers should be $40 \times 0.25 = 10$ cubic yards. There should be five cubic yards provided for garbage containers and five cubic yards provided for recycling containers.

City of Seattle, Washington

The third formula was obtained from the City of Seattle in Washington.

Assuming a collection service of once per week, the total cubic yards for garbage provided should equal the total number of dwelling units multiplied by a factor of 0.10. The total cubic yards provided for recycling containers should be the same amount.

For a 40-unit building, according to the Seattle formula, the total cubic yards of garbage provided should be $40 \times 0.10 = 4$ cubic yards. The total cubic yards of recycling provided, then, should also be four cubic yards.

Objective Research and Findings

This project consisted of two modes of primary research: interviewing city officials to determine local enclosure ordinances and grandfather exemptions, and surveying existing enclosure across multi-unit residential properties to inventory the current nature of recycling spaces. The aggregated results of both modes of research are presented below.

City Interview Results

At the project kick-off planning meeting, it was decided that the perspective of city officials was required to supply a solid base for why, how, and when the enclosure ordinance was developed and how it is being enforced. Waste Wise worked with members of the SWMCB Multi-unit Recycling Subcommittee to identify cities in their counties that they wanted included in the interview process. The selected cities would also be those in which the enclosure surveys would be conducted on multi-unit residential properties.

Due to the project budget, it was decided that a total of 10 cities were to be included in this project and 100 enclosure surveys were to be completed in the chosen cities. Based on the number of multi-unit residential properties in each county, the following cities were selected for the project (see Figure 2 below):

City Interview Tally

SWMCB Enclosure Project City Interview and Enclosure County Tally			
County and Number of MU Properties	# of cities for interview process	Cities selected for interviews	TARGET # of enclosure surveys to complete
Anoka – 15,127; 5%	1	Blaine	10
Carver – 4,414; 1.5%	1	Chaska	5
Dakota – 30,614; 11%	1	South St. Paul	15
Hennepin - 158,658; 55%	4	Bloomington, Minneapolis, New Hope, Plymouth	37
Ramsey – 66,958; 23%	2	Maplewood, St. Paul	23
Washington – 10,217; 4%	1	Forest Lake	10
	10		100

Figure 2: City Interview Tally

Waste Wise developed the interview questionnaire which was approved by the SWMCB Multi-unit Recycling Subcommittee. Waste Wise also interviewed officials from each city and compiled all of the results which appear in full in Appendix A. Below are several common themes from the city interview findings.

- Multi-unit residential waste enclosure issues are not a high priority and therefore don't get much attention from city code enforcement officials.
- Aesthetics is the primary driver for waste enclosure ordinances.
- Ordinance language and enforcement is generally handled by different departments which may not communicate well with one another.
- Most enclosure issues are driven by complaints; city officials don't go out looking for enclosure violations.
- In some cities, older buildings are grandfathered in and may not need to comply with the ordinance unless a significant remodel takes place.

In addition to the themes noted above, the following information was also gleaned from the city official interviews:

- Most city officials were aware of Minnesota Administrative Rule 1303.1500 – Recycling Space but few said they consider it when dealing with enclosure ordinance compliance issues.
- The top three challenges with multi-unit residential recycling were tenant and owner education, tenant turnover, and getting the attention of the property manager.
- The top successes noted were that there were few enclosure-related complaints and that people wanted to recycle.

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- Regarding bulky items, such as appliances and mattresses, the issues noted ranged from “no problem” to “this is a huge issue for us.”
- When asked if the city would consider incorporating a model enclosure ordinance language, they all said they’d consider the idea, but most felt it was unrealistic to expect that the city powers-that-be would pass new ordinance language.

As noted above, the detailed responses for each city can be found in Appendix A.

Enclosure Survey Results by County

Over the course of the project, Waste Wise conducted 155 enclosure surveys across 91 properties in Anoka, Carver, Dakota, Hennepin, Ramsey, and Washington Counties. Only Hennepin and Ramsey Counties had properties in multiple cities surveyed. Each enclosure was evaluated according to the 12 aspects outlined in the Research Methods and Tools section above. The results and observations for each county, as well as the aggregated data across all counties, are clarified below.

Anoka County

In Anoka County, there was a survey target of 10 properties. Over the course of the project, there were 19 enclosure surveys completed across nine properties in the City of Blaine. In addition, there were four properties visited without an observable external enclosure. An overwhelming majority of the enclosures did not have adequate signage inside or outside of the enclosure. There were four enclosures without any recycling containers provided at all. The remaining 15 enclosures did not have an adequate number or size of recycling containers for size of each respective building.

For enclosure ordinance revisions throughout Anoka County, Waste Wise recommends the following:

- Include language in the enclosure ordinance which requires property owners or managers to provide recycling services to tenants. Refer to pages 48-49 of this document for further explanation of this recommendation.
- Include language in the enclosure ordinance that either restricts or eliminates large bulky items/excess waste from being placed inside or outside of the enclosure.

City of Blaine Enclosure Ordinance

The criteria for evaluating compliance with the City of Blaine enclosure ordinance were selected from City Ordinance 29.691:

Medium Density Multi-Family (R-3B) -- 29.691: (a) for multiple dwellings, garbage receptacles must be in either the rear or side yards and screened from public view by a six-foot-high solid fence.

For the purposes of evaluation, the term “garbage receptacles” was interpreted to include both trash and recycling containers. Properties with trash containers inside the enclosure and recycling containers outside of the enclosure were therefore considered to be not in compliance with the ordinance.

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The stipulation for receptacles to be in “either the rear or side yards” was interpreted to mean not having the enclosure located in the front of the building. Many of the surveyed properties had enclosures located in parking lots that were not necessarily classified as rear or side yards, but because they were not located at the front of the property, they were thus determined to satisfactorily satisfy this aspect of the ordinance.

Properties with all trash and recycling containers inside of the enclosure, located in a rear or side yard or otherwise equivalent location, and screened from public view by a six-foot-high solid fence were deemed to be in compliance with the ordinance.

The City of Blaine has a grandfather clause exempting buildings built before 1984 from complying with the current building standards, including the enclosure ordinance. Twelve of the 19 enclosures were thus grandfathered in and did not need to comply. Of these 12 enclosures, four were still in compliance regardless of the grandfather clause.

Of the 19 total enclosures surveyed, eight were in compliance with the enclosure ordinance, three were not in compliance, and eight were exempt due to the grandfather clause, resulting in a compliance rate of 42% (see Figure 3).

Anoka County Recommendations

There is no language in the City of Blaine enclosure ordinance requiring property owners or managers to provide recycling service to tenants of multi-family dwellings. This resulted in enclosures that were technically in compliance with the enclosure ordinance, but did not provide any recycling services. For instance, even though the enclosures at enclosure BLN1 fulfilled the criteria for enclosure compliance, they contained only trash dumpsters and no recycling dumpsters.

The two biggest issues found in the enclosures across the city of Blaine were the lack of recycling containers for residents, as well as poor use of enclosure space itself.

There were four enclosures that did not provide tenants with recycling containers, which means that 21% of enclosures surveyed in Blaine did not have any recycling at all. Since the enclosure ordinance does not specify for properties to provide recycling services, **Waste Wise recommends including language in the enclosure ordinance requiring property owners or managers to provide recycling services to tenants.**

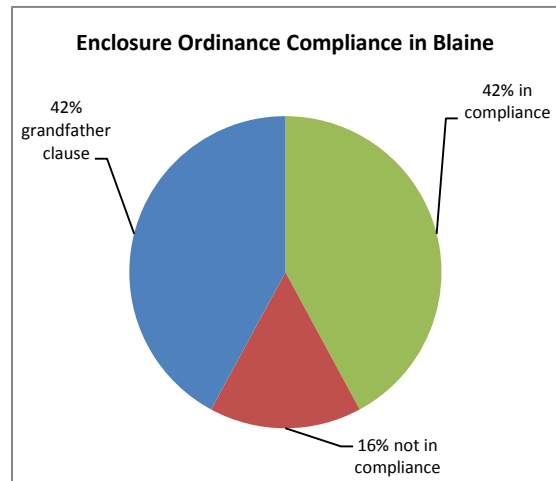


Figure 3: Enclosure Ordinance Compliance in Blaine



Enclosure BLN1 – no recycling provided

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There were seven enclosures that contained large bulky household items (see examples below). In some cases, they served as a hindrance to enclosure access for residents, due to the limited space inside the enclosure. **Waste Wise also recommends including language in the enclosure ordinance either restricting or eliminating large bulky items/excess waste from the inside of the enclosure.**



Enclosure BLN5 – exercise equipment inside enclosure



Enclosure BLN9 – stove and satellite dish inside enclosure



Enclosure BLN12 – furniture inside enclosure

The overall results of the surveyed properties in the City of Blaine are represented in Figure 4 below.

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Anoka County Enclosure Survey Summary – City of Blaine

Enclosure	# of Units	What is the condition of the enclosure?	Is there adequate signage on the outside of the enclosure?	Is the garbage located next to and within five feet of the recycling?	Is there adequate signage on the containers within the enclosure?	Are the GARBAGE containers adequately sized for the number of occupants in the building?	Are the RECYCLING containers adequately sized for the number of occupants in the building?	Is the enclosure adequately sized for the load?	Are all waste and recycling materials placed within the enclosure?	Are there any obvious smell or critter issues with the enclosures?	Are there any safety or security concerns with the enclosures?	Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Is the enclosure in compliance with the enclosure ordinance?
BLN1	72	Good	No	Not Applicable*	No	Yes	Not Applicable*	Yes	Yes	No	No	Yes	Yes
BLN2	72	Good	No	Not Applicable*	No	Yes	Not Applicable*	Yes	Yes	No	No	Yes	Yes
BLN3	72	Good	No	Not Applicable*	No	Yes	Not Applicable*	Yes	Yes	No	No	Yes	Yes
BLN4	32	Good	No	No	No	Yes	No	No	Yes	No	No	Yes	No
BLN5	75	Good	No	Yes	No	No	No	Yes	Yes	No	No	Yes	Yes
BLN6	75	Good	No	Yes	No	No	No	Yes	Yes	No	No	Yes	Yes
BLN7	75	Good	No	Yes	No	No	No	Yes	No	No	No	Yes	Yes
BLN8	72	Fair - needs to be repaired	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	No
BLN9	72	Fair - needs to be repaired	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	No
BLN10	140	Poor - needs to be replaced	No	Yes	No	Yes	No	No	Yes	No	No	Yes	GC*
BLN11	140	Good	No	Yes	No	Yes	No	Yes	Yes	Yes	No	Yes	GC*
BLN12	140	Good	No	Yes	No	Yes	No	Yes	No	No	No	Yes	GC*
BLN13	140	Fair - needs to be repaired	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	GC*
BLN14	63	Good	No	Yes	No	Yes	No	Yes	No	No	No	Yes	Yes
BLN15	100	Good	No	Yes	No	No	No	No	Yes	No	No	Yes	GC*
BLN16	100	Good	No	Yes	No	No	No	No	Yes	No	No	Yes	GC*
BLN17	100	Fair - needs to be repaired	No	Yes	No	No	No	No	Yes	No	No	Yes	GC*
BLN18	53	Poor - needs to be replaced	No	Not Applicable*	No	No	Not Applicable*	Yes	No	No	No	Yes	GC*
BLN19	54	Fair - needs to be repaired	No	Yes	Yes	No	No	Yes	Yes	No	No	Yes	Yes
TOTAL 19 enclosures @ 9 properties		Good: 12	Yes: 0	Yes: 14	Yes: 1	Yes: 11	Yes: 0	Yes: 14	Yes: 15	Yes: 1	Yes: 0	Yes: 19	Yes: 8
		Fair: 5	No: 19	No: 1	No: 18	No: 8	No: 15	No: 5	No: 4	No: 18	No: 19	No: 0	No: 3
		Poor: 2		*4 not applicable (no recycling)			*4 no recycling						*Grandfather Clause: 8

Figure 4: Anoka County Enclosure Survey Summary

Carver County

In Carver County, there was a total survey target of five properties. Over the course of the project, there were seven enclosure surveys across four properties completed in the City of Chaska. In addition, there were four properties visited without an observable external enclosure. An overwhelming majority of the enclosures did not have adequate signage inside or outside of the enclosure. There were four enclosures without any recycling containers provided. None of the enclosures surveyed were in compliance with the Chaska enclosure and zoning ordinances.

For enclosure ordinance improvements in Carver County, Waste Wise recommends the following:

- Stricter enforcement to ensure that all properties are complying with their respective enclosure ordinances.

City of Chaska Enclosure Ordinance

The criteria for evaluating compliance with the City of Chaska Enclosure Ordinance were selected from Section 06 of Chapter 10 (Garbage and Refuse):

Container requirements for multiple dwellings: Multiple dwellings having more than three (3) family units shall either be equipped with waste containers and pick-up service as provided herein or be equipped with a commercial incinerator complying with the requirements of the Minnesota Pollution Control Agency. Waste containers provided as an alternative to or in addition to such incinerator shall be at least one (1) cubic yard in capacity, shall be conveniently located in relationship to the residence units for which they are provided, shall be watertight, insect proof, rodent proof and fire proof, and provided with lid with the exception of recyclable containers. The person owning or operating such multiple residence shall provide for pick-up from such containers. Waste discarded shall not be permitted to accumulate at or near the enclosure except in the container.

Additional criteria were selected from Zoning Ordinance 9.11.7:

Enclosure of trash and recyclables containers: All trash and recyclable containers stored outside for Multi-family, Public, Commercial, Office, Industrial, and Institutional uses shall be stored within an enclosure subject to the following standards: a) The enclosure shall have an impermeable floor surface. b) The enclosure shall satisfy principal structure setback requirements for the applicable zoning district in which it is located. c) The enclosure shall be constructed of materials to match the exterior of the principal structure, with gates or doors having at least ninety (90) percent opacity. d) The enclosure shall be of sufficient size to enclose all trash and recyclable containers and shall be not less than six (6) feet and not more than ten (10) feet in height.

In evaluating enclosure compliance, the term "waste containers" was interpreted to include both trash and recycling receptacles. Enclosures without recycling containers provided were therefore not in compliance with the enclosure ordinance.

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The principal structure setback requirements for the applicable zoning district were not able to be determined by Waste Wise. This aspect of the zoning ordinance was omitted from evaluation criteria, with no effect on survey results; all seven enclosures were not able to satisfy multiple other aspects of the enclosure and zoning ordinances.

There is no grandfather clause exempting certain buildings from complying with the current building standards for enclosures.

Of the seven enclosures surveyed in the City of Chaska, zero of them were in compliance with the enclosure ordinance.

Carver County Recommendations

As with the enclosures in Anoka County, the enclosures in Carver County presented issues with both the recycling service and use of the enclosure space. Although it is specified in the enclosure ordinance that multifamily dwellings must be provided with waste containers, four of the seven enclosures surveyed did not have any recycling containers at all (see examples below).

In addition, the enclosure ordinance states that waste should not accumulate within the enclosure space except within the waste containers themselves, yet four out of the seven enclosures surveyed had materials discarded at or near the enclosure spaces (see example below).



Enclosure CHK2 – no recycling provided



Enclosure CHK3 – yard waste inside enclosure



Enclosure CHK7 – no recycling provided

Waste Wise recommends stricter enforcement in the City of Chaska to ensure that all enclosures are complying with the ordinance. It is essential for property owners and managers to provide recycling services to their tenants and they should be held accountable for any failure to comply.

The overall results of the surveyed properties in the City of Chaska are represented in Figure 5 below.

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Carver County Enclosure Survey Summary – City of Chaska

Enclosure	# of Units	What is the condition of the enclosure?	Is there adequate signage on the outside of the enclosure?	Is the garbage located next to and within five feet of the recycling?	Is there adequate signage on the containers within the enclosure?	Are the GARBAGE containers adequately sized for the number of occupants in the building?	Are the RECYCLING containers adequately sized for the number of occupants in the building?	Is the enclosure adequately sized for the load?	Are all waste and recycling materials placed within the enclosure?	Are there any obvious smell or critter issues with the enclosures?	Are there any safety or security concerns with the enclosures?	Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Is the enclosure in compliance with the enclosure ordinance?
CHK1	28	Good	No	Not applicable*	No	Yes	Not applicable*	Yes	Yes	No	No	Yes	No
CHK2	28	Good	No	Not applicable*	No	Yes	Not applicable*	Yes	No	No	No	Yes	No
CHK3	18	Good	No	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	No
CHK4	37	Not applicable*	Not applicable*	Yes	No	No	No	Not applicable*	Not applicable*	No	No	Yes	No
CHK5	84	Good	No	Not applicable*	No	Yes	Not applicable*	Yes	Yes	No	No	Yes	No
CHK6	84	Good	No	Yes	No	Yes	Yes	No	No	No	No	Yes	No
CHK7	84	Good	No	Not applicable*	No	Yes	Not applicable*	Yes	Yes	No	No	Yes	No
TOTAL		Good: 6	Yes: 0	Yes: 3	Yes: 7	Yes: 6	Yes: 2	Yes: 5	Yes: 4	Yes: 0	Yes: 0	Yes: 7	Yes: 0
7 total enclosures @ 4 properties		Fair: 0	No: 6	No: 0	No: 0	No: 1	No: 1	No: 1	No: 2	No: 7	No: 7	No: 0	No: 7
		Poor: 0	*1 with no enclosure	*4 not applicable (no recycling)			*4 no recycling	*1 with no enclosure	*1 with no enclosure				
		*1 with no enclosure											

Figure 5: Carver County Enclosure Survey Summary

Dakota County

In Dakota County, there was a total survey target of 15 properties. Over the course of the project, there were 17 enclosure surveys across 15 properties completed in the City of South St. Paul. In addition, there were three properties visited without an observable external enclosure. An overwhelming majority of the enclosures did not have adequate signage inside or outside of the enclosure. There were five enclosures without any recycling containers provided.

For enclosure ordinance revisions in Dakota County, Waste Wise recommends the following:

- Include language in the enclosure ordinance which requires property owners or managers to provide recycling services to tenants. Refer to pages 48-49 of this document for further explanation of this recommendation.

City of South St. Paul Enclosure Ordinance

The criteria for evaluating compliance with the City of South St. Paul enclosure ordinance were selected from Ordinance 118-240:

(g) All solid waste material, debris, refuse, garbage, junk or similar material shall be kept within tightly closed containers designed for such purpose. The containers shall be stored within a building or dumpster enclosure, or otherwise screened from view between days of scheduled pickup; except for one-family or two-family residences for which containers may be stored within 4 feet the front line of the principal structure between days of scheduled pickup.

If the enclosure contained receptacles with tightly-closed lids and was adequately screened from view, it was deemed to be in compliance with the enclosure ordinance.

There is no grandfather clause exempting certain buildings from complying with the current building standards for enclosures.

Of the 17 enclosures surveyed in South St. Paul, seven were in compliance with the enclosure ordinance and 10 were not, resulting in a compliance rate of 41% (see Figure 6).

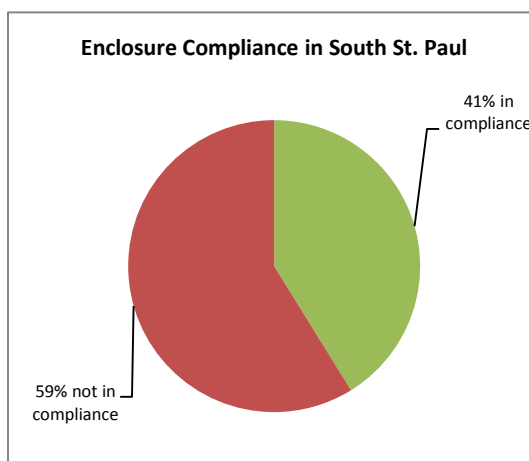


Figure 6: Enclosure Compliance in South St. Paul

Dakota County Recommendations

Of the 17 enclosures surveyed in South St. Paul, five of them, or 29%, did not provide any recycling services for the residents (see examples below).



Enclosure SSP7 – no recycling containers



Enclosure SSP15 – no recycling containers

Waste Wise recommends including language in the ordinance specifically requiring property owners or managers to provide recycling services to tenants.

The overall results of the surveyed properties in the City of South St. Paul are represented in Figure 7 (see below).

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Dakota County Enclosure Survey Summary – City of South St. Paul

Enclosures	# of Units	What is the condition of the enclosure?	Is there adequate signage on the outside of the enclosure?	Is the garbage located next to and within five feet of the recycling?	Is there adequate signage on the containers within the enclosure?	Are the GARBAGE containers adequately sized for the number of occupants in the building?	Are the RECYCLING containers adequately sized for the number of occupants in the building?	Is the enclosure adequately sized for the load?	Are all waste and recycling materials placed within the enclosure?	Are there any obvious smell or critter issues with the enclosures?	Are there any safety or security concerns with the enclosures?	Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Is the enclosure in compliance with the enclosure ordinance?	
SSP1	11	Not Applicable*	Not Applicable*	Yes	No	Yes	Yes	Not Applicable*	Not Applicable*	No	No	Yes	No	
SSP2	53	Good	No	Yes	No	Yes	No	Yes	Yes	No	Yes	Yes	Yes	
SSP3	24	Not Applicable*	Not Applicable*	Yes	No	Yes	Yes	Not Applicable*	Not Applicable*	Yes	No	Yes	No	
SSP4	24	Not Applicable*	Not Applicable*	Yes	No	Yes	Yes	Not Applicable*	Not Applicable*	No	No	Yes	Yes	
SSP5	19	Not Applicable*	Not Applicable*	No	No	Yes	No	Not Applicable*	Not Applicable*	No	No	Yes	No	
SSP6	16	Not Applicable*	Not Applicable*	Yes	No	Yes	No	Not Applicable*	Not Applicable*	No	No	Yes	No	
SSP7	4	Not Applicable*	Not Applicable*	Not applicable*	No	Yes	Not Applicable*	Not Applicable*	Not Applicable*	No	No	Yes	No	
SSP8	8	Not Applicable*	Not Applicable*	Not applicable*	No	Yes	Not Applicable*	Not Applicable*	Not Applicable*	No	No	Yes	No	
SSP9	4	Not Applicable*	Not Applicable*	Yes	No	Yes	Yes	Not Applicable*	Not Applicable*	No	No	Yes	No	
SSP10	17	Good	No	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	
SSP11	4	Not Applicable*	Not Applicable*	Not applicable*	No	Yes	Not Applicable*	Not Applicable*	Not Applicable*	No	No	Yes	No	
SSP12	6	Not Applicable*	Not Applicable*	Yes	No	Yes	No	Not Applicable*	Not Applicable*	No	No	Yes	No	
SSP13	4	Not Applicable*	Not Applicable*	Yes	No	Yes	No	Not Applicable*	Not Applicable*	No	No	Yes	Yes	
SSP14	11	Not Applicable*	Not Applicable*	Not applicable*	No	Yes	Not Applicable*	Not Applicable*	Not Applicable*	No	No	Yes	No	
SSP15	4	Fair - needs to be repaired	No	Not applicable*	No	Yes	Not Applicable*	Yes	Yes	No	No	Yes	Yes	
SSP16	11	Not Applicable*	Not Applicable*	Yes	No	Yes	No	Not Applicable*	Not Applicable*	No	No	Yes	Yes	
SSP17	11	Not Applicable*	Not Applicable*	Yes	No	Yes	No	Not Applicable*	Not Applicable*	No	No	Yes	Yes	
TOTAL 17 total enclosures @ 15 properties		Good: 2	Yes: 0	Yes: 11	Yes: 0	Yes: 17	Yes: 5	Yes: 3	Yes: 3	Yes: 1	Yes: 1	Yes: 17	Yes: 7	
		Fair: 1	No: 3	No: 1	No: 17	No: 0	No: 7	No: 0	No: 0	No: 16	No: 16	No: 0	No: 10	
		Poor: 0	*14 with no enclosure	*5 not applicable (no recycling)					*14 with no enclosure	*14 not applicable				
		*14 with no enclosure					*5 no recycling							

Figure 7: Dakota County Enclosure Survey Summary

Hennepin County

In Hennepin County, there was a total survey target of 37 properties. Over the course of the project, there were 22 enclosure surveys at five properties completed in the city of Bloomington, 33 enclosure surveys at 18 properties completed in the city of Minneapolis, four enclosure surveys across two properties completed in the city of New Hope, and eight enclosure surveys across four properties completed in the city of Plymouth. In total, there were 67 enclosure surveys completed across 29 properties. In addition, there were two properties visited without an observable external enclosure.

Of the 67 total enclosures surveyed, 28 were in compliance with the enclosure ordinance, 26 were not in compliance with the enclosure ordinance, and 13 were exempt due to a grandfather clause, resulting in a compliance rate of 42% (see Figure 8).

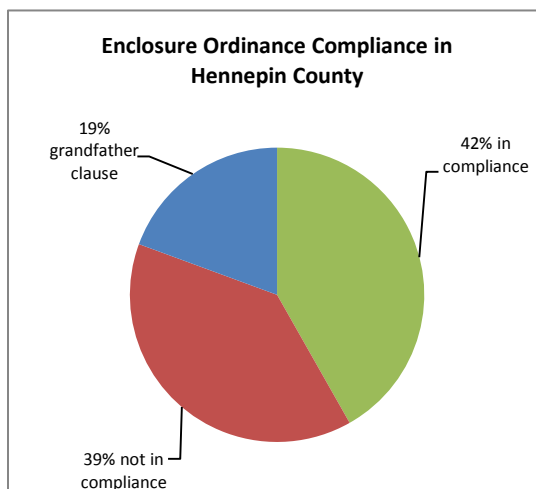


Figure 8: Enclosure Compliance in Hennepin County

City of Bloomington

There were 22 total enclosures across five different properties surveyed in the city of Bloomington. An overwhelming majority of the enclosures did not have adequate signage inside or outside of the enclosure. The enclosures BMG16 – BMG22 could not be evaluated for either garbage or recycling sufficiency because the containers are located on a college campus; student workers bring the collected material to a central location for pick-up.

City of Bloomington Enclosure Ordinance

The criteria for evaluating compliance with the City of Bloomington enclosure ordinance were selected from Ordinance 19.51:

Refuse, Solid Waste, and Recyclable Materials Handling and Storage Facilities -- 19.51: (c) *Storage location.*

(1) For single-family and multiple-family dwelling units with individual dwelling unit trash and recyclables storage and pick-up, all residential solid waste materials must be stored within approved containers appropriate for each type of waste that prevent health and nuisance problems. All solid waste, trash, recyclable materials, yard waste, organics and construction debris shall be placed at the assigned collection location no more than 12 hours before and the containers be removed no more than 12 hours after the scheduled collection day. The storage of residential solid waste containers for single-family detached homes shall be setback 30 feet from any 4 season living area other than the owner's. Residential solid waste containers shall not be stored more than five feet in front of the principal building along any public right-of-way.

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(2) For multiple-family residential units other than those identified in subsection (c)(1) above, residential solid waste containers must be stored within a fully enclosed space, which shall be attached to the principal structure.

For the purposes of evaluation, “principal structure” was interpreted to mean the residential building itself. If the property had a fully enclosed space attached to a secondary stand-alone structure, such as a garage, that property was not considered to be in compliance with the ordinance.

The City of Bloomington has a grandfather clause exempting buildings built before 1982 from complying with the current building standards, including the enclosure ordinance. 13 of the 22 enclosures were thus grandfathered in and did not need to comply. Of these 13 enclosures, two were still in compliance regardless of the grandfather clause.

Of the 22 total enclosures surveyed across five different properties in Bloomington, two of the sites were in compliance with the enclosure ordinance, nine were not in compliance, and 11 were exempt due to the grandfather clause. **The overall enclosure ordinance compliance rate for the city of Bloomington was 9%** (see Figure 9).

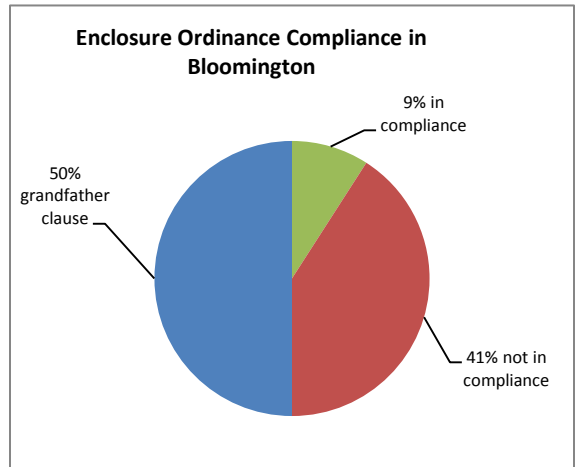


Figure 9: Enclosure Ordinance Compliance in Bloomington

The overall results of the surveyed properties in Bloomington are represented in Figure 10 (see below).

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Hennepin County Enclosure Survey Summary – City of Bloomington

Enclosure	# of Units	What is the condition of the enclosure?	Is there adequate signage on the outside of the enclosure?	Is the garbage located next to and within five feet of the recycling?	Is there adequate signage on the containers within the enclosure?	Are the GARBAGE containers adequately sized for the number of occupants in the building?	Are the RECYCLING containers adequately sized for the number of occupants in the building?	Is the enclosure adequately sized for the load?	Are all waste and recycling materials placed within the enclosure?	Are there any obvious smell or critter issues with the enclosures?	Are there any safety or security concerns with the enclosures?	Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Is the enclosure in compliance with the enclosure ordinance?
BMG1	353	Good	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	No
BMG2	353	Good	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	No
BMG3	353	Fair - needs to be repaired	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	No
BMG4	353	Good	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	No
BMG5	353	Good	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	No
BMG6	353	Good	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	No
BMG7	353	Good	No	Yes	No	Yes	No	Yes	No	No	No	Yes	No
BMG8	353	Good	No	Yes	No	Yes	No	Yes	No	No	No	Yes	No
BMG9	353	Good	No	Yes	No	Yes	No	Yes	No	No	No	No	No
BMG10	55	Good	No	No	No	Yes	No	Yes	Yes	No	No	Yes	GC*
BMG11	55	Good	No	No	No	No	No	Yes	Yes	No	No	Yes	GC*
BMG12	64	Good	No	Yes	No	Yes	No	No	No	No	No	Yes	GC*
BMG13	64	Fair - needs to be repaired	No	Yes	No	Yes	No	No	Yes	No	No	Yes	GC*
BMG14	48	Good	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	GC*
BMG15	48	Good	No	Yes	No	Yes	No	No	No	No	No	Yes	GC*
BMG16	Unable to find	Fair - needs to be repaired	No	No	No	Not applicable*	Not applicable*	Yes	No	Yes	No	Not applicable*	Yes
BMG17	Unable to find	Fair - needs to be repaired	No	No	No	Not applicable*	Not applicable*	Yes	Yes	No	No	Not applicable*	Yes
BMG18	Unable to find	Not applicable*	Not applicable*	Yes	No	Not applicable*	Not applicable*	Not applicable*	Not applicable*	No	No	Not applicable*	GC*
BMG19	Unable to find	Not applicable*	Not applicable*	Yes	No	Not applicable*	Not applicable*	Not applicable*	Not applicable*	No	No	Not applicable*	GC*
BMG20	Unable to find	Not applicable*	Not applicable*	Yes	No	Not applicable*	Not applicable*	Not applicable*	Not applicable*	No	No	Not applicable*	GC*
BMG21	Unable to find	Not applicable*	Not applicable*	Yes	No	Not applicable*	Not applicable*	Not applicable*	Not applicable*	No	No	Not applicable*	GC*
BMG22	Unable to find	Not applicable*	Not applicable*	Yes	No	Not applicable*	Not applicable*	Not applicable*	Not applicable*	No	No	Not applicable*	GC*
TOTAL 22 total enclosures @ 5 properties		Good: 13	Yes: 0	Yes: 18	Yes: 0	Yes: 14	Yes: 0	Yes: 14	Yes: 11	Yes: 1	Yes: 0	Yes: 14	Yes: 2
		Fair: 4	No: 17	No: 4	No: 22	No: 1	No: 15	No: 3	No: 6	No: 21	No: 22	No: 1	No: 9
		Poor: 0	*5 with no enclosure			*7 not applicable	*7 not applicable	*5 with no enclosure	*5 with no enclosure			*7 not applicable	*Grandfather Clause: 11
		*5 with no enclosure											

Figure 10: Bloomington Enclosure Survey Summary

City of Minneapolis

There were 33 total enclosures across 18 different properties surveyed in the City of Minneapolis. An overwhelming majority of the enclosures did not have adequate signage inside or outside of the enclosure. There were two properties visited without an observable external enclosure.

For enclosure ordinance revisions in the City of Minneapolis, Waste Wise recommends the following:

- Include language in the enclosure ordinance which requires property owners or managers to provide recycling services to tenants. Refer to pages 48-49 of this document for further explanation of this recommendation.
- Include language requiring property owners or managers to maintain the condition of the enclosures, limiting excess waste that may accumulate at or around the enclosures.

City of Minneapolis Enclosure Ordinance

The criteria for evaluating compliance with the City of Minneapolis enclosure ordinance were selected from Ordinance 535.8:

Screening of refuse and recycling storage containers. Refuse, recycling storage, and compost containers shall be enclosed on all 4 (4) sides by screening compatible with the principal structure not less than two (2) feet higher than the refuse container or shall be otherwise effectively screened from the street, adjacent residential uses located in a residence or office residence district and adjacent permitted or conditional residential uses. Single and two-family dwellings and multiple-family dwellings of three (3) and 4 (4) units shall not be governed by this provision.

For the purposes of evaluation, if an enclosure did not have screening on all four sides or if it had screening that was less than 2 ft. higher than the refuse container, but it was still effectively screened from the street and adjacent properties, it was considered to be in compliance with the enclosure ordinance.

There is no existing grandfather clause exempting certain buildings from complying with the current building standards for enclosures.

Of the 33 total enclosures surveyed across 18 properties in Minneapolis, 26 were in compliance with the enclosure ordinance and seven were not, resulting in a compliance rate of 79% (see Figure 11).

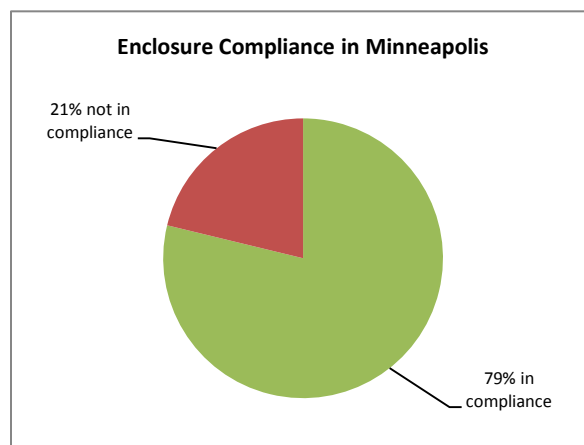


Figure 11: Enclosure Compliance in Minneapolis

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City of Minneapolis Recommendations

Many of the enclosures, while in good general condition, were not properly maintained. There were multiple sites with litter and broken glass found within the enclosure, posing as a possible safety hazard for residents (see below).



Enclosure MPL32 – broken glass inside enclosure



Enclosure MPL1 – litter inside enclosure



Enclosure MPL33 – litter inside enclosure

Waste Wise recommends including language requiring property owners or managers to maintain the condition of the enclosures, limiting excess waste that may accumulate at or around the enclosures.

The overall results of the surveyed properties in Minneapolis are represented in Figure 12 (see below).

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Hennepin County Enclosure Survey Summary – City of Minneapolis

Enclosure	# of Units	What is the condition of the enclosure?	Is there adequate signage on the outside of the enclosure?	Is the garbage located next to and within five feet of the recycling?	Is there adequate signage on the containers within the enclosure?	Are the GARBAGE containers adequately sized for the number of occupants in the building?	Are the RECYCLING containers adequately sized for the number of occupants in the building?	Is the enclosure adequately sized for the load?	Are all waste and recycling materials placed within the enclosure?	Are there any obvious smell or critter issues with the enclosures?	Are there any safety or security concerns with the enclosures?	Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Is the enclosure in compliance with the enclosure ordinance?
MPL1	110	Fair - needs to be repaired	No	Yes	No	No	No	Yes	No	No	No	Yes	No
MPL2	37	Not applicable*	Not applicable*	Yes	No	Yes	No	Not applicable*	Not applicable*	No	No	Yes	Yes
MPL3	212	Good	No	Not applicable*	No	Yes	Not Applicable*	Yes	Yes	No	No	Yes	Yes
MPL4	181	Good	No	Yes	No	No	No	Yes	Yes	No	No	Yes	Yes
MPL5	60	Good	No	Yes	No	No	No	Yes	Yes	No	No	Yes	Yes
MPL6	30	Good	No	Not applicable*	No	Yes	Not Applicable*	Yes	Yes	No	Yes	Yes	Yes
MPL7	46	Not applicable*	Not applicable*	Yes	No	No	No	Not applicable*	Not applicable*	No	No	Yes	Yes
MPL8	72	Good	No	Yes	No	No	No	Yes	Yes	No	No	Yes	Yes
MPL9	220	Fair - needs to be repaired	No	Yes	No	No	No	No	No	No	No	Yes	No
MPL10	14	Good	No	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	No
MPL11	24	Good	No	Yes	No	Yes	No	No	Yes	No	No	Yes	No
MPL12	440	Good	No	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes
MPL13	440	Good	No	Not applicable*	No	Yes	Not Applicable*	Yes	Yes	No	No	Yes	Yes
MPL14	440	Good	No	Not applicable*	No	Yes	Not Applicable*	Yes	Yes	No	No	Yes	Yes
MPL15	440	Not applicable*	Not applicable*	Yes	No	No	No	Not applicable*	Not applicable*	No	No	Yes	No
MPL16	440	Good	No	Not applicable*	No	Yes	Not Applicable*	Yes	Yes	No	No	Yes	Yes
MPL17	440	Good	No	Not applicable*	No	Yes	Not Applicable*	Yes	Yes	No	No	Yes	Yes
MPL18	440	Good	No	Not applicable*	No	Yes	Not Applicable*	Yes	Yes	No	No	Yes	Yes
MPL19	440	Good	No	Not applicable*	No	Yes	Not Applicable*	Yes	No	No	No	Yes	Yes
MPL20	440	Good	No	Not applicable*	No	Yes	Not Applicable*	Yes	Yes	No	No	Yes	Yes
MPL21	440	Good	No	Not applicable*	No	Yes	Not Applicable*	Yes	Yes	No	No	Yes	Yes
MPL22	440	Good	No	Not applicable*	No	Yes	Not Applicable*	Yes	Yes	No	No	Yes	Yes
MPL23	440	Good	No	Not applicable*	No	Yes	Not Applicable*	No	Yes	No	No	Yes	Yes

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MPL24	250	Good	No	Yes	No	No	No	Yes	No	No	No	Yes	Yes
MPL25	250	Good	No	Yes	No	No	No	Yes	Yes	No	No	Yes	Yes
MPL26	250	Good	No	Yes	No	No	No	Yes	No	No	No	Yes	Yes
MPL27	182	Good	No	Yes	No	Yes	No	Yes	Yes	No	Yes	Yes	Yes
MPL28	30	Good	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	Yes
MPL29	60	Fair - needs to be repaired	No	Yes	No	No	No	Yes	No	No	No	Yes	No
MPL30	60	Good	No	Not applicable*	Yes	No	No	Yes	Yes	No	No	Yes	No
MPL31	67	Good	No	Not applicable*	No	No	Not Applicable*	Yes	Yes	No	No	Yes	Yes
MPL32	67	Good	No	Yes	No	No	No	Yes	Yes	No	Yes	Yes	Yes
MPL33	76	Good	No	Yes	No	No	No	Yes	Yes	No	No	Yes	Yes
TOTAL		Good: 27	Yes: 0	Yes: 19	Yes: 3	Yes: 17	Yes: 2	Yes: 26	Yes: 24	Yes: 0	Yes: 3	Yes: 33	Yes: 26
33 total enclosures @ 18 properties		Fair: 3	No: 30	*14 not applicable (no trash/recycling)	No: 30	No: 16	No: 18	No: 4	No: 6	No: 33	No: 30	No: 0	No: 7
		Poor: 0	*3 with no enclosure				*13 no recycling	*3 with no enclosure	*3 with no enclosure				
		*3 with no enclosure											

Figure 12: Minneapolis Enclosure Survey Summary

City of New Hope

There were four enclosures across two properties surveyed in the City of New Hope. An overwhelming majority of the enclosures did not have adequate signage inside or outside of the enclosure.

City of New Hope Enclosure Ordinance

The criteria for evaluating compliance with the New Hope enclosure ordinance were selected from Ordinance 9.11:

- (5) Screening. All permanent and disposable waste containers, used in single-family residential zoned areas or for single-family homes in any zoning district shall be screened from all principal residential structure within 50 feet and from the adjacent streets. Industrial, commercial, multi-family and institutional uses shall provide screening for their waste containers so as to screen the containers from sight from off the premises on which located.

For the purposes of evaluation, if an enclosure was effectively screened from sight, it was determined to be in compliance with the ordinance.

The City of New Hope has a grandfather clause exempting buildings built before 2010 from complying with the current building standards, including the enclosure ordinance. All four enclosures were thus grandfathered in and did not need to comply. Of these four enclosures, two were still in compliance regardless of the grandfather clause.

Of the four total enclosures surveyed across two properties in New Hope, two were in compliance with the enclosure ordinance and two were grandfathered in, resulting in a compliance rate of 50% (see Figure 13).

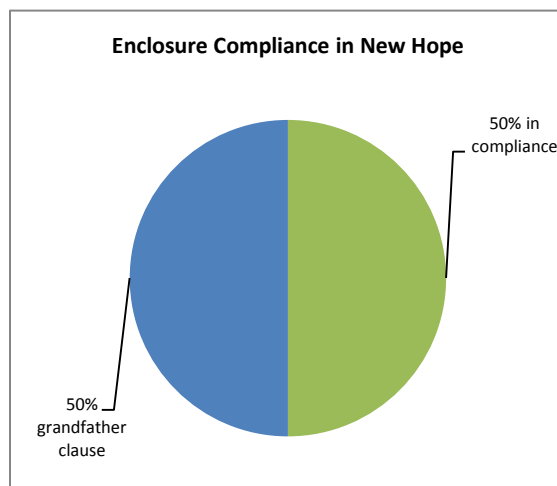


Figure 13: Enclosure Compliance in New Hope

The overall results of the surveyed properties in the City of New Hope are represented in Figure 14 (see below).

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Hennepin County Enclosure Survey Summary – City of New Hope

Enclosure	# of Units	What is the condition of the enclosure?	Is there adequate signage on the outside of the enclosure?	Is the garbage located next to and within five feet of the recycling?	Is there adequate signage on the containers within the enclosure?	Are the GARBAGE containers adequately sized for the number of occupants in the building?	Are the RECYCLING containers adequately sized for the number of occupants in the building?	Is the enclosure adequately sized for the load?	Are all waste and recycling materials placed within the enclosure?	Are there any obvious smell or critter issues with the enclosures?	Are there any safety or security concerns with the enclosures?	Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Is the enclosure in compliance with the enclosure ordinance?
NHP1	87	Fair - needs to be repaired	No	Yes	No	No	No	No	No	No	No	Yes	GC*
NHP2	87	Fair - needs to be repaired	No	Yes	No	Yes	No	No	No	No	No	Yes	GC*
NHP3	140	Good	No	Yes	No	No	No	No	No	No	No	Yes	Yes
NHP4	140	Good	No	Yes	No	No	No	No	No	No	No	Yes	Yes
TOTAL 4 total enclosures @ 2 properties		Good: 2	Yes: 0	Yes: 4	Yes: 0	Yes: 1	Yes: 0	Yes: 0	Yes: 0	Yes: 0	Yes: 0	Yes: 4	Yes: 0
		Fair: 2	No: 4	No: 0	No: 4	No: 3	No: 4	No: 4	No: 4	No: 4	No: 4	No: 0	No: 2
		Poor: 0											*Grandfather Clause: 2

Figure 14: New Hope Enclosure Survey Summary

City of Plymouth

There were eight enclosures across four properties surveyed in the City of Plymouth. An overwhelming majority of the enclosures did not have adequate signage inside or outside of the enclosure.

City of Plymouth Enclosure Ordinance

The criteria for evaluating compliance with the City of Plymouth enclosure ordinance were selected from Enclosure Ordinance Subd. 4. - pp. 600.29, Subd. 2:

Container Requirements. The owner of a multiple family dwelling must provide containers for the collection of designated recyclables and must maintain the containers in a clean and sanitary condition. The containers must be sufficient in number and size to meet the demands for recycling services created by the occupants. The owner must replace stolen or broken containers and purchase additional containers as needed. Containers must be placed in a location on the premises which permits access for collection purposes but which does not obstruct pedestrian or vehicular traffic and must comply with the Zoning Ordinance.

Additional criteria were selected from Zoning Ordinance Subd. 8. pp. 21120-2:

Trash Receptacles. Except as otherwise provided, all multiple family dwellings and non-residential buildings having exterior trash receptacles shall provide an enclosed area in conformance with the following: (a) Exterior wall treatment shall be similar and/or complement the principal building. (b) For residential uses, the minimum setback for an enclosed trash receptacle area shall be the same as the setback prescribed for accessory structures. For non-residential uses, the minimum setback for an enclosed trash receptacle area shall be the same as the setback prescribed for the principal building. (c) The trash enclosure shall be in an accessible location for servicing vehicles and shall not conflict with site circulation. (d) The trash receptacles shall be fully screened from view of adjacent properties and the public right-of-way. (e) The design and construction of the trash enclosure shall be subject to the approval of the Building Official. (f) Recycling space shall be provided as required by the Minnesota State Building Code. (g) Noise emanating from trash collection activities shall be minimized so as not to constitute a nuisance as defined and regulated by Section 2010 of the City Code.

Given that the city ordinance requires a sufficient number and size of containers to meet the demands of the residents, for the purposes of evaluation, the StopWaste formula was applied.

The stipulation that the exterior wall treatment of the enclosure be similar to and/or complement the principal building was determined with Waste Wise's discretion.

The principal structure setback requirements for the applicable zoning district were not able to be determined by Waste Wise. This aspect of the zoning ordinance was omitted from evaluation criteria,

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with no effect on survey results; all eight enclosures were not able to satisfy multiple other aspects of the enclosure and zoning ordinances.

The design approval from the Building Official and the minimization of noise levels were unable to be evaluated by Waste Wise and so were also omitted from the evaluation criteria.

There is no grandfather clause exempting certain buildings from complying with the current building standards for enclosures.

Of the eight total enclosures surveyed across four properties in the City of Plymouth, zero were in compliance with the enclosure ordinance, resulting in a compliance rate of 0%.

The overall results of the surveyed properties in Plymouth are represented in Figure 15 (see below).

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Hennepin County Enclosure Survey Summary – City of Plymouth

Enclosure	# of Units	What is the condition of the enclosure?	Is there adequate signage on the outside of the enclosure?	Is the garbage located next to and within five feet of the recycling?	Is there adequate signage on the containers within the enclosure?	Are the GARBAGE containers adequately sized for the number of occupants in the building?	Are the RECYCLING containers adequately sized for the number of occupants in the building?	Is the enclosure adequately sized for the load?	Are all waste and recycling materials placed within the enclosure?	Are there any obvious smell or critter issues with the enclosures?	Are there any safety or security concerns with the enclosures?	Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Is the enclosure in compliance with the enclosure ordinance?
PLY1	126	Good	No	Yes	No	No	No	Yes	Yes	No	No	Yes	No
PLY2	126	Not Applicable*	Not Applicable*	Yes	No	Yes	No	Not Applicable*	Not Applicable*	No	No	Yes	No
PLY3	161	Fair - needs to be repaired	No	No	No	Yes	No	No	No	No	No	Yes	No
PLY4	161	Fair - needs to be repaired	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	No
PLY5	161	Fair - needs to be repaired	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	No
PLY6	96	Not Applicable*	Not Applicable*	Yes	Yes	No	No	Not Applicable*	Not Applicable*	No	No	Yes	No
PLY7	96	Good	No	Yes	No	No	No	Yes	No	No	No	Yes	No
PLY8	96	Good	No	Yes	No	No	No	No	Yes	No	No	Yes	No
TOTAL 8 total enclosures @ 4 properties		Good: 3	Yes: 0	Yes: 7	Yes: 1	Yes: 4	Yes: 0	Yes: 4	Yes: 4	Yes: 0	Yes: 0	Yes: 8	Yes: 0
		Fair: 3	No: 6	No: 1	No: 7	No: 4	No: 8	No: 2	No: 2	No: 8	No: 8	No: 0	No: 8
		Poor: 0	*2 with no enclosure						*2 with no enclosure	*2 with no enclosure			
		*2 with no enclosure											

Figure 15: Plymouth Enclosure Survey Summary

Ramsey County

In Ramsey County, there was a total survey target of 23 properties to be completed. Over the course of the project, there were 11 enclosure surveys at 6 properties completed in the City of Maplewood and 23 enclosure surveys at 18 properties completed in the City of St. Paul. In total, there were 34 enclosure surveys completed across 24 properties. In addition, there was one property visited without an observable external enclosure.

Of the 34 total enclosures surveyed, 24 were in compliance with the enclosure ordinance, resulting in a compliance rate of 71% (see Figure 16).

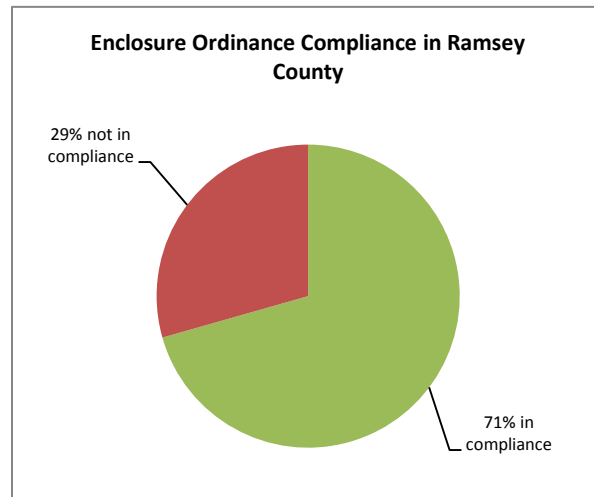


Figure 16: Enclosure Ordinance Compliance in Ramsey County

City of Maplewood

There were 11 total enclosures across six properties surveyed in the City of Maplewood. An overwhelming majority of the enclosures did not have adequate signage inside or outside of the enclosure. Some containers had signage but it didn't meet the standard for adequate signage defined on page 9-10 of this document. It is important to note that enclosure MPW₁ may have had additional garbage and recycling containers elsewhere. At the time of the survey, there were only cardboard dumpsters out for collection.

For enclosure ordinance revisions in the City of Maplewood, Waste Wise recommends the following:

- Increase and/or actively enforce multi-family education efforts.
- Include language in the enclosure ordinance which requires property owners or managers to provide recycling services to tenants. Refer to pages 48-49 of this document for further explanation of this recommendation.

City of Maplewood Enclosure Ordinance

The criteria for evaluating compliance with the Maplewood enclosure ordinance were selected from Enclosure Ordinance 44-19:

Chapter 44 - Landscaping and Screening -- 44-19: (e) Trash container enclosures shall be provided around all trash containers and shall be 100 percent opaque. They shall be protected by concrete-filled steel posts or the equivalent, anchored in the ground at the front corners of the structure. If the enclosure is masonry, the protective posts may be omitted. In all instances, the enclosure must be of a design, material and color compatible with the building and be kept in good repair. A gate that provides 100-percent opaqueness shall be provided. The community design review board may waive

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any part of this requirement if it finds that the trash container would be hidden from adjacent properties and streets.

Additional criteria were selected from Zoning Ordinance 30-22:

Chapter 30 - Zoning -- Sec. 30-22: Collection of recyclables from multiple-family dwellings. The city requires all the owners and managers of multiple-family dwellings to provide recycling services to all their residents. (1) Collection service required. The owner of a multiple-family dwelling shall make available to the occupants of all dwelling units on the premise services for the collection of designated recyclables. (2) Recycling information required. The owner of a multiple-family dwelling shall provide recycling information to the occupants of each dwelling unit on the property consistent with the City of Maplewood Solid Waste Management Standards. (3) Responsibility for providing and maintaining recycling containers. a. If the owner of a multiple-family dwelling uses the city's recycling contractor, then the contractor shall provide and maintain adequate recycling containers for the needs of the property and its occupants; or b. If the owner uses an independent recycling contractor, the owner shall assure adequate recycling containers are provided and maintained by the independent contractor. (4)

Transportation and disposal. Upon collection by the city-contracted recyclables hauler or the owner's independent hauler, that person shall deliver the designated recyclables to a recyclable material processing center, an end market for sale or reuse, or to an intermediate collection center for later delivery to a processing center or end market. It is unlawful for any person to transport for disposal or to dispose of designated recyclables in a mixed municipal solid waste disposal facility. (5) Annual report. Each owner or manager of a multiple-family dwelling that does not employ the city's recycling contractor shall file an annual report with the city by January 31 of each year on a form detailed in the City of Maplewood Solid Waste Management Standards. (6) Administrative penalties. Violation of this article shall be charged as an administrative fine as follows: a fine of \$200.00 for the first offense; a fine of \$300.00 for the second offense at the same location within a 12-month period; a fine of \$500.00 for the third offense or additional offenses within a 24-month period at the same location. The owner shall be notified in writing of the violation and if the owner fails to take action within 15 days of receiving the notice of violation, the owner shall be cited for violation in accordance with the fine schedule.

For the purposes of evaluation, the phrase "trash container" in the enclosure ordinance was interpreted to include both garbage and recycling containers. Using this interpretation, it follows that the enclosure must be large enough to contain all garbage and recycling containers.

Waste Wise did not have access to the community design review board, so there was no way to determine whether any portion of the enclosure requirements was waived. If the trash and recycling containers were well hidden from adjacent properties and streets, Waste Wise applied the assumption that the requirements for enclosures to be 100 percent opaque, protected by steel posts or the equivalent, and contain an opaque gate would be waived.

Most of the requirements from the zoning ordinance would not be observable through an enclosure survey; the only requirement extrapolated from this ordinance was the requirement for property owners and managers to provide recycling services to their tenants.

There is no grandfather clause exempting certain buildings from complying with the current building standards for enclosures.

Of the 11 total enclosures surveyed across six properties in Maplewood, six were in compliance with the enclosure ordinance and five were not, resulting in a compliance rate of 55% (see Figure 17).

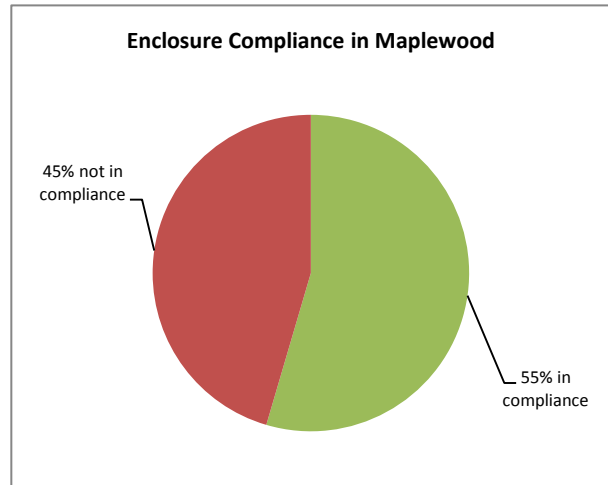


Figure 17: Enclosure Compliance in Maplewood

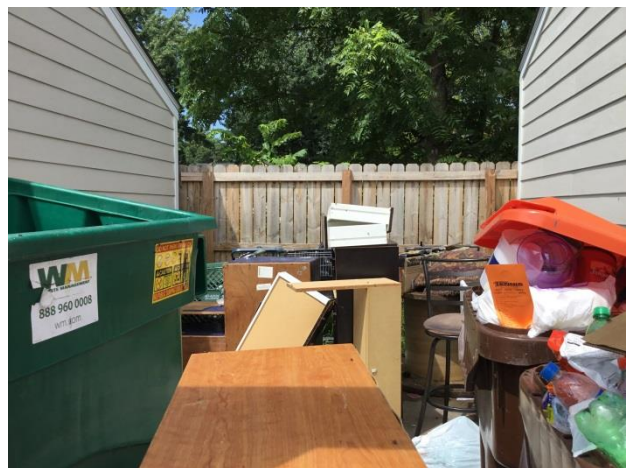
City of Maplewood Recommendations

Although the zoning ordinance requires property owners to provide recycling information to tenants, a large portion of the enclosures surveyed in Maplewood were in poor condition due to massive amounts of garbage littered inside of enclosure spaces.

Of the 11 total enclosures, three had shopping carts inside the space, four were completely filled with trash, and three had education tags from Tennis Sanitation informing residents of trash contamination inside their recycling carts (see examples below).



Enclosure MPW2 – education tag left by Tennis Sanitation



Enclosure MPW5 – filled with trash

Since Maplewood is a smaller city to manage, it may be beneficial to increase multi-family education and include language in the enclosure ordinance requiring adequate signage on the containers within enclosures, as well as outside of the enclosures themselves.

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The overall results of the surveyed properties in Maplewood are represented in Figure 18 (see below).

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Ramsey County Enclosure Survey Summary – City of Maplewood

Enclosure	# of Units	What is the condition of the enclosure?	Is there adequate signage on the outside of the enclosure?	Is the garbage located next to and within five feet of the recycling?	Is there adequate signage on the containers within the enclosure?	Are the GARBAGE containers adequately sized for the number of occupants in the building?	Are the RECYCLING containers adequately sized for the number of occupants in the building?	Is the enclosure adequately sized for the load?	Are all waste and recycling materials placed within the enclosure?	Are there any obvious smell or critter issues with the enclosures?	Are there any safety or security concerns with the enclosures?	Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Is the enclosure in compliance with the enclosure ordinance?	
MPW1	108	Not Applicable*	Not Applicable*	Not Applicable*	No	No*	No*	Not Applicable*	Not Applicable*	No	No	Yes	Yes*	
MPW2	58	Good	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	Yes	
MPW3	58	Good	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	Yes	
MPW4	58	Good	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	Yes	
MPW5	58	Fair - needs to be repaired	No	Yes	No	Yes	No	Yes	Yes	No	Yes	Yes	No	
MPW6	67	Good	No	Yes	No	Yes	No	No	Yes	No	No	Yes	Yes	
MPW7	13	Poor - needs to be replaced	No	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	No	
MPW8	13	Poor - needs to be replaced	No	Yes	No	Yes	No	Yes	Yes	Yes	No	Yes	No	
MPW9	51	Good	No	Yes	No	Yes	No	No	No	No	No	Yes	Yes*	
MPW10	168	Fair - needs to be repaired	No	Yes	No	No	No	Yes	Yes	No	No	Yes	No	
MPW11	168	Poor - needs to be replaced	No	Yes	No	No	No	Yes	Yes	Yes	No	Yes	No	
TOTAL 11 total enclosures @ 6 properties		Good: 5	Yes: 0	Yes: 10	Yes: 0	Yes: 8	Yes: 0	Yes: 8	Yes: 9	Yes: 3	Yes: 2	Yes: 11	Yes: 6	
		Fair: 2	No: 10	No: 0	No: 11	No: 3	No: 11	No: 2	No: 1	No: 8	No: 9	No: 0	No: 5	
		Poor: 3	*1 with no enclosure	*1 not applicable (no trash)		*may have garbage/recycling elsewhere		*1 with no enclosure	*1 with no enclosure					*see assumption
		*1 with no enclosure												

Figure 18: Maplewood Enclosure Survey Summary

City of St. Paul

There were 23 total enclosures across 18 properties surveyed in the City of St. Paul. An overwhelming majority of the enclosures did not have adequate signage inside or outside of the enclosure. There was one property visited without an observable external enclosure. It is important to note that both enclosures STP20 and STP23 may have had additional garbage and recycling containers elsewhere. At enclosure STP20, there were only cardboard dumpsters out for collection. At STP23, there was an indoor garage where there may have been an additional enclosure or other dumpsters.

For enclosure ordinance revisions in the City of St. Paul, Waste Wise recommends the following:

- Expand on the language in the ordinance to further emphasize the need to keep the enclosures free of garbage and excess material.
- Establish a standard of maintenance and cleanliness for property owners and managers to uphold in garbage and recycling enclosures.

City of St. Paul Enclosure Ordinance

The criteria for evaluating compliance with the St. Paul enclosure ordinance were selected from Enclosure Ordinance 357.05:

(f) Mixed municipal solid waste and/or separate waste stream storage: (5) Location of containers: Containers for mixed municipal solid waste and/or yard waste storage shall be kept in locations that do not create a nuisance and the locations shall be maintained in a manner acceptable to the department of public works. In no case shall the containers be kept beyond the alley line or in front of the established building line as defined in the zoning code or on boulevards except on the day of collection.

Although the requirement to maintain the container storage location “in a manner acceptable to the department of public works” is a vague statement, Waste Wise took the liberty of assuming that this was equivalent to stipulating that no waste materials were to accumulate at or near the enclosure space.

It is unknown whether a grandfather clause exists, exempting certain buildings from complying with the current building standards for enclosures.

Of the 23 total enclosures surveyed across 18 properties in St. Paul, 18 were in compliance with the enclosure ordinance and five were not, resulting in a compliance rate of 78% (see Figure 19).

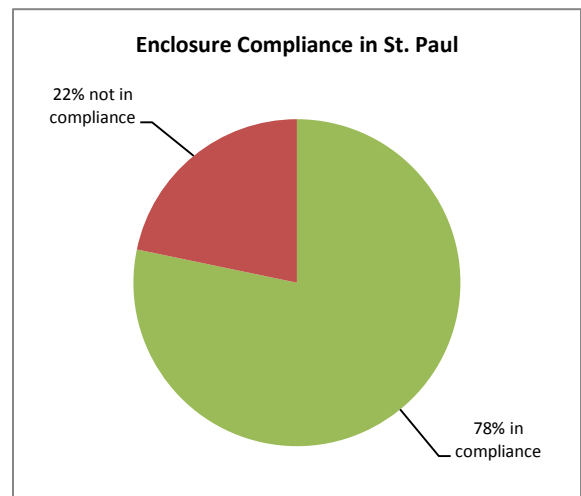


Figure 19: Enclosure Compliance in St. Paul

City of St. Paul Recommendations

Most of the properties surveyed in City of St. Paul did not exhibit any smell or critter concerns, but there were many enclosures that did not exhibit adequate cleanliness or upkeep. At enclosure STP7, for instance, there was standing water and waste products inside one of the recycling carts and there was little room to maneuver around the mattresses stacked within the enclosure.

There were also various instances where enclosures had either carts or enclosures overflowing with material. Of the 23 enclosures, three were overflowing with material.

Waste Wise recommends expanding on the language in the ordinance to further emphasize the need to keep the enclosures free of garbage and excess material, as well as establishing a standard of maintenance and cleanliness for property owners and managers to uphold.

The overall results of the surveyed properties in the City of St. Paul are represented in Figure 20 (see below).



Enclosure STP7 – recycling cart not maintained well

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Ramsey County Enclosure Survey Summary – City of St. Paul

Enclosure	# of Units	What is the condition of the enclosure?	Is there adequate signage on the outside of the enclosure?	Is the garbage located next to and within five feet of the recycling?	Is there adequate signage on the containers within the enclosure?	Are the GARBAGE containers adequately sized for the number of occupants in the building?	Are the RECYCLING containers adequately sized for the number of occupants in the building?	Is the enclosure adequately sized for the load?	Are all waste and recycling materials placed within the enclosure?	Are there any obvious smell or critter issues with the enclosures?	Are there any safety or security concerns with the enclosures?	Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Is the enclosure in compliance with the enclosure ordinance?
STP1	25	Fair - needs to be repaired	No	Yes	No	No	Yes	No	No	No	No	Yes	Yes
STP2	40	Not Applicable*	Not Applicable*	Yes	No	No	No	Not Applicable*	Not Applicable*	No	No	Yes	Yes
STP3	25	Good	No	Yes	No	No	No	No	Yes	No	No	Yes	No
STP4	41	Not Applicable*	Not Applicable*	Yes	No	No	No	Not Applicable*	Not Applicable*	No	No	Yes	Yes
STP5	59	Not Applicable*	Not Applicable*	Yes	No	No	No	Not Applicable*	Not Applicable*	No	No	Yes	Yes
STP6	50	Not Applicable*	Not Applicable*	Yes	No	No	No	Not Applicable*	Not Applicable*	No	No	Yes	Yes
STP7	25	Fair - needs to be repaired	No	Yes	No	No	No	Yes	Yes	Yes	No	Yes	No
STP8	50	Good	No	Yes	No	No	No	Yes	Yes	Yes	No	Yes	Yes
STP9	20	Not Applicable*	Not Applicable*	Yes	No	Yes	No	Not Applicable*	Not Applicable*	No	No	Yes	No
STP10	90	Not Applicable*	Not Applicable*	Yes	No	No	No	Not Applicable*	Not Applicable*	No	No	Yes	Yes
STP11	100	Good	No	Yes	No	No	No	Yes	No	No	Yes	Yes	Yes
STP12	100	Not Applicable*	Not Applicable*	Yes	No	No	No	Not Applicable*	Not Applicable*	No	No	Yes	Yes
STP13	59	Fair - needs to be repaired	No	No	No	Yes	No	No	Yes	No	No	Yes	Yes
STP14	59	Fair - needs to be repaired	No	Yes	No	Yes	No	No	No	No	No	Yes	No
STP15	59	Good	Yes	Yes	No	Yes	No	No	No	No	No	Yes	No
STP16	151	Good	No	Yes	No	Yes	No	No	Yes	No	No	Yes	Yes
STP17	151	Good	No	Yes	No	Yes	No	No	No	No	No	Yes	Yes
STP18	60	Not Applicable*	Not Applicable*	No	No	Yes	Yes	Not Applicable*	Not Applicable*	No	No	Yes	Yes
STP19	60	Not Applicable*	Not Applicable*	No	No	Yes	Yes	Not Applicable*	Not Applicable*	No	No	Yes	Yes
STP20	71	Not Applicable*	Not Applicable*	Not Applicable*	Yes	No*	No*	Not Applicable*	Not Applicable*	No	No	Yes	Yes
STP21	25	Not Applicable*	Not Applicable*	Yes	No	Yes	Yes	Not Applicable*	Not Applicable*	No	No	Yes	Yes
STP22	25	Not Applicable*	Not Applicable*	Yes	No	No	Yes	Not Applicable*	Not Applicable*	No	No	Yes	Yes
STP23	90	Good	No	No	No	No*	No*	No	Yes	No	No	Yes	Yes
TOTAL 23 total enclosures @ 18 properties		Good: 7	Yes: 1	Yes: 18	Yes: 1	Yes: 9	Yes: 5	Yes: 3	Yes: 6	Yes: 2	Yes: 1	Yes: 23	Yes: 18
		Fair: 4	No: 10	No: 4	No: 22	No: 14	No: 18	No: 8	No: 5	No: 21	No: 22	No: 0	No: 5
		Poor: 0	*12 with no enclosure	*1 not applicable (no trash)		*may have garbage/recycling elsewhere	*may have garbage/recycling elsewhere	*12 with no enclosure	*12 with no enclosure				

Figure 20: St. Paul Enclosure Survey Summary

Washington County

In Washington County, there was a total survey target of 10 properties. Over the course of the project, there were 11 enclosure surveys across 10 properties completed in the City of Forest Lake. In addition, there were three properties visited without an observable external enclosure. None of the enclosures had adequate signage for either the outside of the enclosure or on the containers themselves.

For enclosure ordinance revisions for Washington County, Waste Wise recommends the following:

- Include language in the enclosure ordinance stipulating adequate container and enclosure sizes.

City of Forest Lake Enclosure Ordinance

The criteria for evaluating compliance with the city of Forest Lake enclosure ordinance were selected from Zoning Ordinance 153.096:

(KK) Trash enclosure service structure: (1) Shall be required for all commercial, mixed use, industrial and multi-family uses. (2) Shall be no larger than 400 square feet unless approved by the city. (3) Shall be built to maintain the color and style of the principal buildings. (4) The structure shall contain either a swinging door or roll up door to contain debris. (5) Shall meet the required setbacks of the underlying zoning district. (6) The structure shall not contain any vehicle storage unless approved by the city.

The stipulation that the exterior wall treatment of the enclosure be built to maintain the color and style of the principal building was interpreted with Waste Wise's discretion.

Waste Wise was unable to determine the required setbacks of the underlying zoning district. The omission of this requirement had no effect on all but 1 of the enclosures. The enclosure at FRL3 satisfied every other requirement of the enclosure ordinance, and because it did not seem to be set too closely to the surrounding road, Waste Wise determined that this enclosure was indeed in compliance with the ordinance.

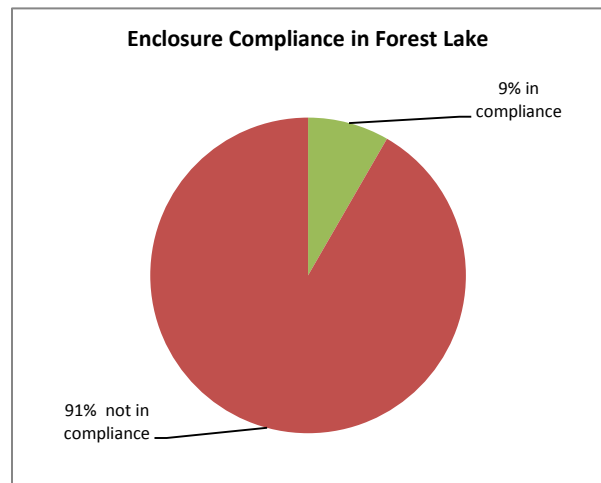


Figure 21: Enclosure Compliance in Forest Lake

There is no grandfather clause exempting certain buildings from complying with the current building standards for enclosures.

Of the 11 enclosures across 10 properties, one was in compliance with the enclosure ordinance and 10 were not, resulting in a compliance rate of 9% (see Figure 21).

City of Forest Lake Recommendations

There was a pattern of size inadequacy for both enclosures and containers at multiple sites across City of Forest Lake. There were three different enclosures with overflowing recycling dumpsters and four different enclosures that were inadequately sized for the number and size of recycling and trash containers (see examples below).



Enclosure FRL5 – overflowing recycling container



Enclosure FRL6 – containers too large for enclosure



Enclosure FRL3 – overflowing recycling container

Waste Wise recommends including language in the enclosure ordinance stipulating adequate container and enclosure sizes.

The overall results of the surveyed properties in City of Forest Lake are represented in Figure 22 (see below).

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Washington County Enclosure Survey Summary – City of Forest Lake

Enclosure	# of Units	What is the condition of the enclosure?	Is there adequate signage on the outside of the enclosure?	Is the garbage located next to and within five feet of the recycling?	Is there adequate signage on the containers within the enclosure?	Are the GARBAGE containers adequately sized for the number of occupants in the building?	Are the RECYCLING containers adequately sized for the number of occupants in the building?	Is the enclosure adequately sized for the load?	Are all waste and recycling materials placed within the enclosure?	Are there any obvious smell or critter issues with the enclosures?	Are there any safety or security concerns with the enclosures?	Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Is the enclosure in compliance with the enclosure ordinance?
FRL1	60	Good	No	Yes	No	No	No	Yes	Yes	No	No	Yes	No
FRL2	17	Not Applicable*	Not Applicable*	Yes	No	Yes	No	Not Applicable*	Not Applicable*	No	No	Yes	No
FRL3	120	Good	No	Yes	No	No	No	No	Yes	No	No	Yes	Yes
FRL4	15	Not Applicable*	Not Applicable*	Yes	No	Yes	No	Not Applicable*	Not Applicable*	No	No	Yes	No
FRL5	18	Good	No	Yes	No	Yes	No	No	No	No	No	Yes	No
FRL6	252	Good	No	Yes	No	No	No	No	No	No	No	Yes	No
FRL7	32	Not Applicable*	Not Applicable*	Yes	No	Yes	No	Not Applicable*	Not Applicable*	No	No	Yes	No
FRL8	32	Good	No	Yes	No	Yes	No	Yes	Yes	No	No	Yes	No
FRL9	20	Fair - needs to be repaired	No	Yes	No	No	No	No	No	No	Yes	Yes	No
FRL10	48	Good	Yes	Yes	No	Yes	No	Yes	Yes	No	No	Yes	No
FRL11	51	Not Applicable*	Not Applicable*	Yes	No	Yes	No	Not Applicable*	Not Applicable*	No	Yes	Yes	No
TOTAL 11 total enclosures @ 10 properties		Good: 6	Yes: 1	Yes: 11	Yes: 0	Yes: 7	Yes: 0	Yes: 3	Yes: 4	Yes: 0	Yes: 2	Yes: 11	Yes: 1
		Fair: 1	No: 6	No: 0	No: 11	No: 4	No: 11	No: 4	No: 3	No: 11	No: 9	No: 0	No: 10
		Poor: 0	*4 with no enclosure						*4 with no enclosure	*4 with no enclosure			
		*4 with no enclosure											

Figure 22: Washington County Enclosure Survey Summary

Total Enclosure Survey Summary

Overall, throughout the 91 properties visited across the six counties, there were 155 total enclosures surveyed. In addition, there were 17 properties visited without an observable external enclosure.

Condition of Enclosures Mostly Good; Signage Mostly Inadequate

Most of the enclosures surveyed were in good condition; only a small number of enclosures were in poor condition. None of the enclosures had adequate signage outside of the enclosure. There were 22 enclosures with some sort of a “No Dumping” or “Tenants Only” signage, but none with detailed information on what items to recycle outside of the enclosure. The majority of enclosures placed their garbage containers next to and within five feet of their recycling containers. Very few enclosures had adequate signage on **all** of the containers within the enclosure; most enclosures did not have any sort of signage on the trash containers.

Majority of Garbage Containers Adequately-sized; Recycling Containers at Most Sites Too Small or Not Present

The majority of enclosures surveyed had adequately-sized garbage containers, as determined by the StopWaste formula. The majority of enclosures surveyed did not have adequately-sized recycling containers, as determined by the StopWaste formula. There were 26 enclosures surveyed without any recycling containers provided at all. There were many enclosures that were adequately-sized to accommodate the existing containers within the enclosure. The 33 inadequately-sized enclosures either had containers entirely outside of the enclosure or they barely had enough room for residents to maneuver around inside of the enclosure.

Although most of the enclosures had all materials placed within the enclosure, there were some enclosures where materials, while placed inside of the enclosure space, were piled up outside of the garbage and recycling containers in such an extreme fashion that either limited maneuvering space or contributed to the poor condition of the enclosure itself.

Nuisance Issues of Smell, Critters, and Safety Concerns Were Rare

There were very few issues with smell or critters. Of the enclosures that had noticeable concerns, none were critter-related; they were all problems with smell. The main smell-related issues were urine, stale cigarettes, or an extreme garbage odor outside of the ordinary. There were also very few issues with safety or security. Of these issues, none were incredibly serious hazards. The main safety concerns were broken glass, doors without stops that swing shut in the wind, and extremely heavy dumpster lids. Almost all of the enclosures surveyed provided adequate space for haulers to collect the material from inside of the enclosure.

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Half of Waste Enclosures in Compliance with Local Ordinances

Approximately half of the enclosures surveyed were in compliance with their respective ordinances. There were 66 enclosures that were not in compliance and 19 that were exempt due to an existing grandfather clause. Only some ordinances mentioned requiring recycling within the enclosure ordinance, so it was therefore possible for enclosures to be in compliance without provided recycling services.

The results across the 155 enclosures surveyed can be seen below in Figure 23.

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Total Enclosure Survey Summary

Criteria Examined	Raw Results		% Conversion
What is the condition of the enclosure?	Good	83	54%
	Fair	25	16%
	Poor	5	3%
	<i>*42 with no enclosure</i>		27%
Is there adequate signage on the outside of the enclosure?	Yes	0	0%
	No	113	73%
	<i>*42 with no enclosure</i>		27%
Is the garbage located next to and within five feet of the recycling?	Yes	115	74%
	No	11	7%
	<i>*29 not applicable (no recycling/trash)</i>		19%
Is there adequate signage on the containers within the enclosure?	Yes	13	8%
	No	142	92%
Are the GARBAGE containers adequately sized for the number of occupants in the building?	Yes	94	61%
	No	54	35%
	<i>*7 not applicable</i>		4%
Are the RECYCLING containers adequately sized for the number of occupants in the building?	Yes	14	9%
	No	108	70%
	<i>*7 not applicable</i>		4%
	<i>*26 with no recycling</i>		17%
Is the enclosure adequately sized for the load?	Yes	80	52%
	No	33	21%
	<i>*42 with no enclosure</i>		27%
Are all waste and recycling materials placed within the enclosure?	Yes	80	52%
	No	33	21%
	<i>*42 with no enclosure</i>		27%
Are there any obvious smell or critter issues with the enclosures?	Yes	8	5%
	No	147	95%
Are there any safety or security concerns with the enclosures?	Yes	9	6%
	No	146	94%
Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Yes	147	95%
	No	1	1%
	<i>*7 not applicable</i>		4%
Is the enclosure in compliance with the enclosure ordinance?	Yes	70	45%
	No	64	41%
	<i>*21 exempt due to Grandfather Clause</i>		14%

Figure 23: Total Enclosure Survey Summary

Recommendations and Conclusion

Recommendations

Using the data gathered for this project, Waste Wise has developed several recommendations for improving recycling services at multi-unit residential properties in the SWMCB counties. In order for tenants to participate in the recycling program, they must be provided with adequate containers in an adequately-sized, well-maintained space, with adequate and consistent signage. Tenant education is also paramount to a successful multi-unit residential recycling program. The following recommendations range from modifying ordinance language to using consistent and clear signage.

Promote Use of Model Ordinance Language

In reviewing city enclosure ordinances for determining enclosure compliance, Waste Wise discovered several common themes. Throughout the 10 different city ordinances, the following four requirements appeared multiple times:

- The enclosure must be screened from view from the street, as well as from neighboring residences and buildings.
- The design, construction, and style of the enclosure must complement the building materials of the principal structure.
- There shall be no waste accumulated at, within, or near the enclosure space.
- The enclosure must meet the setback requirements for the underlying zoning district.

All of the above requirements are aesthetic in nature and are less driven by a functionality standard. While some requirements, such as the reduction of excess waste within the enclosure space, do contribute to the functionality of the enclosure itself, the majority of ordinances do not directly address the operational aspects of the enclosure. Very few enclosure ordinances required property owners or managers to provide either recycling services to their tenants or adequate signage for the containers and enclosures themselves.

Waste Wise recommends including the following requirements in revisions of enclosure ordinance language:

- Require recycling services be available to tenants: Property owners or managers must provide recycling services for tenants. There must be adequate space within the enclosure to accommodate a sufficient number of recycling bins for the size and occupancy of the building.
- Require adequate signage: There shall be adequate signage posted on the containers within the enclosure as well as outside of the enclosure itself. (1) Adequate signage shall be posted on both garbage and recycling containers. Signage should include text and images that inform residents of materials that belong in each respective container. (2)

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Adequate signage shall be posted outside of the enclosure. Signage posted on containers themselves should be duplicated on the exterior surface of the enclosure. Signage should also portray the general use of the enclosure area and inform residents that the enclosure space is intended for disposal of garbage and recycling generated by tenants of the building only.

Including these two requirements into existing enclosure ordinances would incorporate functionality as well as aesthetics for enclosure ordinances.

Given the common enclosure ordinance requirements outlined above for this project and the two additional recommended requirements above, **Waste Wise proposes the following model ordinance language for any future revisions to city multi-unit residential waste/recycling enclosure ordinances:**

Enclosure of trash and recycling containers:

All trash and recycling containers stored outside for multi-family residential use shall be stored within an enclosure subject to the following standards:

- a) Based on building occupancy, an enclosure shall be large enough to contain all adequately-sized trash and recycling receptacles (dumpster, cart, etc.).
- b) The enclosure must be:
 - i. of durable construction and placed on a solid concrete or asphalt base;
 - ii. 100% opaque and of a design, material, and color that is compatible with the principal building;
 - iii. screened from view from the street and adjacent homes and buildings; and
 - iv. kept in good condition, sanitary and safe.
- c) There shall be adequate signage posted on each container within the enclosure as well as on the outside of the enclosure itself.
 - i. Adequate signage shall be posted on both trash and recycling containers.
 - ii. Signage should include clear text and images which depicts what can go in each container.
- d) Trash and recycling discarded at the property shall not be permitted to accumulate inside or outside of the enclosure except within the receptacles provided by the waste hauler.

The requirement to meet the principal structure setback requirements for the applicable zoning district was omitted from the model ordinance language above, as these setback requirements are not universally required in all cities.

Adopt Enforcement Guidelines that Help Property Owners Become Compliant

As beneficial as it is to add functional requirements to enclosure ordinances, doing so is of little use if the ordinance isn't enforced. For instance, in the city of Chaska, the enclosure ordinance requires multi-unit dwellings to provide waste containers (interpreted as both garbage and recycling) to tenants, yet four of the seven enclosures surveyed did not have recycling containers placed in them. The ordinance also requires enclosures to be free of any waste

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accumulation within the enclosure space, yet four of the seven enclosures surveyed had materials present outside of the collection receptacles.

In order to guarantee a successful multi-unit recycling program, enclosure ordinances should be enforced. Rather than rely on a reactive enforcement system that merely responds to complaints, city officials should take a more proactive approach to enforcing the waste enclosure ordinances in their city. Waste Wise isn't suggesting that existing enforcement procedures be changed but that once noncompliance is identified, specific actionable steps be taken to help the property owner become compliant.

Waste Wise recommends the following approach for enforcing waste enclosure ordinances:

- 1) Once a violation is known, enforcement staff should use the suggested model ordinance language noted above to guide steps to compliance.
- 2) Develop an action plan for the property to be in compliance with all elements of the model ordinance language included.
- 3) Work with county staff who have designed and have ready access to adequate signage and assistance resources.
- 4) If possible, and as city resources allow, take a more proactive approach to identifying multi-unit residential properties that are not in compliance with the existing city ordinance. If the property is not in compliance, it is more likely than not that significant recycling and tenant education opportunities exist at the property.

Include Waste Enclosure in Annual City License Renewal Requirements

Many cities have an ordinance which requires an annual license renewal for multi-unit residential properties. **Waste Wise recommends that cities include language in the annual city licensing renewal document for multi-unit residential properties which requires building owners to adequately address enclosure ordinance non-compliance before the property license is renewed.** This could be as simple as adding a line item to the renewal document that directly addresses compliance with the associated ordinance, and then using the model ordinance language recommended in this document as a guide to compliance.

State-level Changes: Amend MN Statute 1303.1500

Throughout this project Waste Wise staff cross-referenced all data to MN Statute 1303.1500 which requires buildings to provide space for recycling storage. It states that:

- Subpart 1. Requirement. Space must be provided for the collection, separation, and temporary storage of recyclable materials within or adjacent to all new or significantly remodeled buildings or structures that contain 1,000 square feet or more.
- Subp. 2. Location. Space designated for recycling shall be located so it is at least as convenient as the location where other solid waste is collected. If feasible, recycling space should be adjacent to other solid waste collection space. Recycling space must be located

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and designed in accordance with the provisions of this code and ordinances of the jurisdiction.

Subp. 3. Identification on plans. Space designated for recycling must be identified on plans submitted for a building permit.

Subp. 4. Minimum space. Space designated for recycling must be sufficient to contain all the recyclable materials generated from the building. The minimum amount of recycling space required must be the number of square feet determined by multiplying the gross square feet of floor areas assigned to each use within a building as set forth in subpart 5, Table 1-A, times the corresponding factor.

Example: Applying New Container Capacity Standards to an Existing Property

Waste Wise put together a real-life application of the StopWaste formula and the MN Statute 1303.1500 requirement using the MPL11 property in Hennepin County. Property MPL11 is a 17,930 square foot building with 24 residential units. Applying the StopWaste formula, the total container capacity for the building should be six cubic yards. Since the garbage and recycling capacity should be evenly divided, an adequately-sized recycling container would be a 3-yard dumpster which has an approximate footprint of 21 square feet.

The enclosure at MPL11 is 10 feet wide by 12 feet deep which comes to a total of 120 square feet. The property has a 6-yard garbage dumpster and two 96-gallon recycling carts on site. Given the StopWaste recycling dumpster size specification of 21 square feet, there is adequate space for recycling in the enclosure. However, as the photo shows the recycling carts were not inside of the enclosure.



Enclosure MPL11

According to MN Statute 1303.1500, the minimum recycling space requirement factor for apartments is at least 0.0025 of the total square footage of the building itself. The statutory minimum recycling space requirement for this property is 44.825 square feet. Though the property is technically in compliance with the statute by having 120 square feet of enclosure space, none of the space was being used for recycling. Because the statute only states that recycling space must be provided and doesn't require that the space actually be used for recycling, it is not against statute for property owners and managers to provide such space without actually using it for recycling.

Recommended State Statute Amendments

Waste Wise recommends that the language of MN Statute 1303.1500 be amended to enforce appropriate usage of the recycling space. The following change is recommended:

Subpart 1. **Requirement.** Space must be provided and used for the collection, separation, and temporary storage of recyclable materials within or adjacent to all new or significantly

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remodeled buildings or structures that contain 1,000 square feet or more. There shall be no garbage materials collected, separated, and stored within the specified recycling space.

Thinking Ahead: Space Accommodations for Organics Recycling

Waste Wise would also like to note that while we've concluded the current statute provides an adequate amount of space for single-stream recycling at multi-unit residential properties, the prescribed 0.0025 factor would not be a suitable amount of space when factoring in organics recycling.

In order to accommodate space for organics recycling, Waste Wise also recommends the minimum space requirement for apartments be increased to a factor of 0.004.

Applying this new factor to property MPL11 would mean 71.72 square feet of recycling space. Given a StopWaste formula total recommended container capacity of six cubic yards, and a split of 40% trash, 40% single-stream recycling and 20% organics, the total recommended capacity for recycling at MPL11 would be approximately 2.4 cubic yards and the total recommended capacity for organics would be approximately 1.2 cubic yards.

With an approximation of 3 cubic yards for recycling and 1 cubic yard for organics, the footprint for each container would be 5.3 ft. × 5.5 ft. and 2.2 ft. × 5.5 ft., respectively. The recycling container would require 29.15 sq. ft. of space, while the organics container would require 13.75 sq. ft. of space. With the total container capacity requiring 42.9 sq. ft. of space, including maneuvering room at a factor of 1.5 results in a necessary capacity of 64.35 sq. ft. This recycling space of 64.35 sq. ft. is a factor of 0.0036 of the total sq. ft. of 17,930, which can be approximated to a factor of 0.004 as a general rule.

Waste Wise also recommends including language in the statute which requires that single stream recycling services be provided. Though this will be a challenge for properties in many areas in Minnesota, we suggest a provision be included to the effect that the requirement applies only where at least two economically viable single stream recycling hauler options exist. Because single stream collection services are not yet uniformly available across the state, it is not feasible to universally require recycling services.

Minnesota Support for Revisions to the International Existing Building Code

Waste Wise recommends that Minnesota explore the option of incorporating language in the 2018 revisions to the International Existing Building Code (IEBC), which will be adopted in 2020. Partners in this endeavor would need to meet with the IEBC group led by the Department of Labor and Industry to discuss this option. The question would be how the IEBC could be persuaded to adopt the enhanced recycling enclosure provisions Waste Wise is recommending for Minnesota (as detailed in this report). If the IEBC 2018 revisions were to include such a standard, the revised building code would eliminate, or greatly reduce, the grandfather clauses that are currently a barrier to wider availability of recycling in multi-unit buildings, as well as promoting adequate size, signage, safety and sanitation standards for waste handling and recycling.

Conclusion

This research found that opportunities exist to drive higher recycling rates at multi-unit residential properties, including:

- Educating property owners, managers, and tenants about recycling availability and enclosure standards,
- Improving waste enclosures for ease-of-use, education, efficiency and functionality, as well as adequate size, signage, safety and sanitation standards,
- Creating more consistent ordinances and policies across the Twin Cities Metro Area,
- Using strategic enforcement with specific compliance guidance, and
- Tapping into and applying the technical and infrastructure support that is readily available from partners in all SWMCB counties.

Through surveys, and policy research, Waste Wise is pleased to present SWMCB with an evidence base that can be used for decision making and policy formation, and to help move counties closer to achieving their stated residential recycling goals.

Questions or comments about this report? Please contact:
Jill Curran, jcurran@mnchamber.com, (651) 2924653

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Insert 4 C's reference find link

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Appendices – available via email

Appendix A: Detailed City Official Interview Information

Detailed City Official Interview Information											
Questions Asked	City Response Blaine	City Response Chaska	City Response South St. Paul	City Response Burnsville*	City Response Bloomington	City Response Minneapolis	City Response New Hope	City Response Plymouth	City Response Maplewood	City Response St. Paul	City Response Forest Lake
Timestamp	3:04 PM	10:40 AM	1:05 p.m.	2:33 PM	10:30 AM	3:30 PM	2:43 PM	12:03 PM	10:10 AM	11:54 AM	9:24 AM
Date of Interview	11/22/2017	1/31/2017	9/7/2017	3/24/2017	2/9/2017	2/13/2017	3/6/2017	Plymouth	2/11/2017	3/1/2017	2/2/2017
City and Address	10801 Town Square Drive, Blaine	One City Hall Plaza, Chaska, MN 55318	125 3rd Avenue North, South St. Paul, 55075		1800 W. Old Shakopee Road, Bloomington, MN 55431-3027	250 South Fourth Street, Room 300, Minneapolis, MN 55415	4401 Xylon Avenue North, New Hope, MN 55428	3401 Plymouth Blvd., Plymouth, MN 55447-1482	1902 County Road B East, Maplewood, MN 55109	16 Kellogg Blvd., West 310 City Hall, St. Paul, 55102	1408 Lake Street South, Forest Lake, MN 55025
Person Interviewed & Title	Roark Haver	Liz Hanson, City Planner	Peter Hellegers, city planner, 651-554-3217, Christi Wilcox gave me his name	Chris Forslund, Licensing and Code Enforcement Coordinator	Londell Pease, Senior Planner, Planning Division	Brad Ellis, Manager Zoning Administration and Enforcement	Tim Pratt -- Brooklyn Park, Jeff Sargent and Kirk McDonald -- New Hope	Sarah Hellekson, Solid Waste Coordinator	Chris Swanson, Environmental & City Code Specialist	Kris Hageman and Anne Hunt	Dan Udem, Assistant to the City Administrator
Contact Email	rhaver@blainemn.gov	ehanson@chaskamn.com	phellegers@sspmn.org	christopher.forslund@burnsvillemn.gov	lpeace@bloomingtonmn.gov	bradley.ellis@minneapolismn.gov	tim.pratt@brooklynpark.org, kmcdonald@ci.new-hope.mn.us, jsargent@ci.new-hope.mn.us	sellekson@plymouthmn.gov	chris.swanson@maplewoodmn.gov	anne.hunt@ci.stpaul.mn.us, kris.hageman@ci.stpaul.mn.us	dan.udem@ci.forest-lake.mn.us
Contact Phone	763-785-6192	952-448-9200	651-554-3217	952-895-4466	952-563-8926	612-673-3239	Tim--763-493-8120, Kirk -- 763-531-5117, Jeff -- 763-531-5196	763-509-5052	651-249-2305	651-266-8520	651-209-9727

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Questions Asked	City Response Blaine	City Response Chaska	City Response South St. Paul	City Response Burnsville*	City Response Bloomington	City Response Minneapolis	City Response New Hope	City Response Plymouth	City Response Maplewood	City Response St. Paul	City Response Forest Lake
Other Information	8/23/2017 -- Bryan, do we "grandfather" waste enclosures at older buildings from having to meet the current standards? We do...1984 generally. Bryan Schafer Community Development Director City of Blaine 8/23/2017 -- he asked that I send him an email with the question so that he can forward it to planning and inspections for the proper answer	8/23/2017 -- there is no look back, they don't have an if built before this date, the ordinance is waived rule, if trash and recycling are stored outdoors at multi-unit properties, they have to abide by the associated waste enclosure ordinance	NO GRANDFATHER clause but...older building issues are dealt with on a case by case basis...they're not "required to comply" but are encouraged to comply. 8/23/2017 -- Dakota County decided to survey properties in South St. Paul, not Burnsville 8/31/2017 -- Im for Peter 9/6/2017 -- LM		Ordinance is grandfathered back to 1982	9/19/2017 -- no grandfather clause, violations dealt with case by case and as they arise, no active enforcement, they sounded very flexible in general about enforcing the enclosure related ordinances, 9/18/2017 -- LM re. grandfather clause	9/18/2017 -- Kirk thought the ordinance was developed in 2010 primary due to aesthetics and a desire for a clean and pleasing environment. Older building are grandfathered in and don't need to meet code unless there is a major re-model or addition-- enclosures would need to be brought up to code in these cases. All new builds are required to follow code. 8/23/2017 -- VM left and email sent re. grandfather clause question the cities of Brooklyn Center, Crystal and New Hope have a joint powers agreement to work together on recycling and other projects in the three cities, the agreement is known as HRG, Tim Pratt from the city of Brooklyn Park coordinates HRG	8/24/2017 -- In the City of Plymouth, recycling space is determined by the MN Building Code Ch 1303. There is a sq. ft. calculation based on the size of the building. Garbage and refuse must be in containers sufficient in size to accommodate the occupants. There is no grandfather clause. Please let me know if you have further questions. Thank you, Tyson Jenkins Building Official 8/23/2017 -- VM left and email sent	9/18/17 - not grandfathered in but they haven't actively enforced it most times. 8/23/2017 -- VM left and email sent regarding grandfather clause question	9/18/2017 - LM for Dan N. in safety and inspections. 8/23/2017 -- VM left and email sent regarding grandfather clause question	8/23/2017 -- VM left & email sent 8/31/2017 -- Jill: We don't have a specific grandfather clause for the enclosures. If an enclosure was built before our current zoning regulations were put into place, they are classified an existing non-conforming use and we typically won't require anything be done to the enclosure unless the property does an improvement that requires a permit/zoning review. If a permit is applied for, we will work with the property owner to bring their enclosures up to current code. That being said we typically try to work with the property owner to develop a solution that works for both the city and the property owner when it comes to trash enclosures.
Questions Asked	City Response Blaine	City Response Chaska	City Response South St. Paul	City Response Burnsville*	City Response Bloomington	City Response Minneapolis	City Response New Hope	City Response Plymouth	City Response Maplewood	City Response St. Paul	City Response Forest Lake

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<p>1. According to my records, the following is the ordinance which relates to waste and/or recycling enclosures for multi-residential properties in your city. To your knowledge, is this correct? If you don't know who would you suggest for an answer to this question? (Insert exact wording of ordinance)</p>	<p>codes as I have should be correct, check them against what Roark gave me</p>	<p>zoning ordinance -- section 9.11.7, in special regulations ordinance of zoning ordinance -- more design language, the ordinance I cited was from the general ordinance which is enforced by police and community officer -- Liz handles the zoning ordinances only General Ordinance Chapter 10 - Section 06: Garbage and Refuse Container requirements for multiple dwellings. Multiple dwellings having more than three (3) family units shall either be equipped with waste containers and pick-up service as provided herein or be equipped with a commercial incinerator complying with the requirements of the Minnesota Pollution Control Agency. Waste containers provided as an</p>	<p>Sec.118-240: (c) In all districts, all waste, refuse, or garbage shall be kept in an enclosed building or properly stored in a closed container designed for such purposes; except for one-family and two-family homes, said container shall be noncombustible of a type as required in the C-1, business district (see subsection 118-126(e)). The owner of vacant land shall be responsible for keeping such land free of refuse and weeds. (g) All solid waste material, debris, refuse, garbage, junk or similar material shall be kept within tightly closed containers designed for such purpose. The containers shall be stored within a building or dumpster enclosure, or otherwise screened from view between days of scheduled pickup; except for one-family or two-family residences for which containers may be stored within four feet the front line of the principal structure between days of scheduled</p>	<p>10-7-22: Waste Material -- 1316, 4-8-2014, and property maintenance code apply</p>	<p>Zoning Ordinance 1925.1 (19.51)(c) Storage location. (2) For multiple-family residential units other than those identified in subsection (c)(1) above, residential solid waste containers must be stored within a fully enclosed space, which shall be attached to the principal structure. (3) All commercial and office uses shall have storage facilities for solid waste and recyclable materials in accordance with one of the following requirements. (A) Within a fully enclosed space designated for the storage of solid waste and recyclable materials. All required solid waste and recyclable materials enclosures must be accessible from within the principal building. The issuing authority may waive the interior access requirement for multiple tenant buildings when: (i) The proposed solid waste and recyclable materials storage facility is not in conflict with the stated purpose in this section of this code; (ii) The proposed solid waste and recyclable materials storage facility is accessed by separated walkway to the facility which is illuminated in accordance with § 21.301.07 of the city</p>	<p>535.80 is the primary zoning, may be some other ancillary codes, housing and fire inspection services (regulatory services) may address maintenance and they do enforcements if garbage is strewn about</p>	<p>Kirk provided me with the ordinance -- Sec. 9-11 - Waste and recyclable materials collection and disposal. Screening is address in (a)(5). Mandatory recycling for multifamily dwelling and commercial buildings is address in (k)(3). Kirk also provided a full list of multifamily dwellings in the HRG area. The list is highlighted with buildings that recycled and those that don't. Trash enclosure for commercial and industrial are also addressed in a different ordinance but the printout I was given doesn't have the ordinance number on it.</p>	<p>the zoning ordinance that I noted is correct, to be honest the only time it's cited is when something is being built or when someone complains there is another ordinance that applies to multi-unit enclosures, chapter 6 public health, recycling services for multi-family dwellings--600.29, Sarah is in the middle of re-writing Chapter 6 Plymouth City Code -- Subd. 4. - pp. 600.29, Subd. 2: Container Requirements. The owner of a multiple family dwelling must provide containers for the collection of designated recyclables and must maintain the containers in a clean and sanitary condition. The containers must be sufficient in number and size to meet the demands for recycling services created by the occupants. The owner must replace stolen or broken containers and purchase additional containers as needed. Containers must be placed in a location on the premises which permits access for collection purposes but which does not obstruct pedestrian or vehicular traffic</p>	<p>Chapter 44 - Landscaping and Screening -- 44-19: (e) Trash container enclosures shall be provided around all trash containers and shall be 100 percent opaque. They shall be protected by concrete-filled steel posts or the equivalent, anchored in the ground at the front corners of the structure. If the enclosure is masonry, the protective posts may be omitted. In all instances, the enclosure must be of a design, material and color compatible with the building and be kept in good repair. A gate that provides 100-percent opacity shall be provided. The community design review board may waive any part of this requirement if it finds that the trash container would be hidden from adjacent properties and streets. Chapter 30 - Zoning -- Sec. 30-22: Collection of recyclables from multiple-family dwellings. The city requires all the owners and managers of multiple-family dwellings to provide recycling services to all their</p>	<p>will be reviewing existing ordinance extensively, current ordinance looks to be okay, recently made one revision</p>	<p>Jill's researched Chapter 50 is correct for residential--not multi-family, organized collection for residents in Forest Lake, multi-family and commercial can contract with whomever they want, multi-family is Dan will get this answer for me</p> <p>Zoning code is what applies to multi-family , 153.096 (KK). Chapter 50: Collection of Garbage and Waste Materials - 50.02: (A) Refuse in streets and the like. No person shall place any refuse in any street, alley or public place or upon any private property except in proper containers for collection. No person shall throw or deposit refuse in any lake, stream or other body of water or in such manner as to cause litter or contamination of the environment. (B) Disposal of refuse. No person shall bury any refuse in the city, except in an approved and licensed sanitary</p>
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		<p>alternative to or in addition to such incinerator shall be at least one (1) cubic yard in capacity, shall be conveniently located in relationship to the residence units for which they are provided, shall be watertight, insect proof, rodent proof and fire proof, and provided with lid with the exception of recyclable containers. The person owning or operating such multiple residence shall provide for pick-up from such containers. Waste discarded shall not be permitted to accumulate at or near the enclosure except in the container. Zoning Ordinance - 9.11.7 - Enclosure of trash and recyclables containers: All trash and recyclable containers stored outside for Multi-family, Public, Commercial, Office, Industrial, and</p>	<p>pickup. 118-240 -- grandfather clause -- no hard written grandfather clause...case by case, some properties predate zoning so they be given an exception--no specific date</p>		<p>code; (iii) The proposed solid waste and recyclable materials storage facility will not unreasonably harm or restrict public health, safety and welfare or create a nuisance; and (iv) The proposed location is attached to the principal structure and does not create a hazard for vehicular or pedestrian traffic. (B) Power-operated solid waste and recyclable materials processing equipment when loaded from within the principal structure shall be screened from all sides except where access is approved by the issuing authority. Screening shall be constructed using building materials consistent in style, color and composition within the materials on the principal building approved by the issuing authority.</p> <p>Londell wrote code which was enacted in 2001</p>			<p>and must comply with the Zoning Ordinance. Zoning Ordinance -- Subd. 8. pp. 21120-2: Trash Receptacles. Except as otherwise provided, all multiple family dwellings and non-residential buildings having exterior trash receptacles shall provide an enclosed area in conformance with the following: (a) Exterior wall treatment shall be similar and/or complement the principal building. (b) For residential uses, the minimum setback for an enclosed trash receptacle area shall be the same as the setback prescribed for accessory structures. For non-residential uses, the minimum setback for an enclosed trash receptacle area shall be the same as the setback prescribed for the principal building. (c) The trash enclosure shall be in an accessible location for servicing vehicles and shall not conflict with site circulation. (d) The trash receptacles shall be fully screened from view of adjacent properties and the public right-of-way. (e) The design and construction of the trash enclosure shall</p>	<p>residents. (1) Collection service required. The owner of a multiple-family dwelling shall make available to the occupants of all dwelling units on the premise services for the collection of designated recyclables. (2) Recycling information required. The owner of a multiple-family dwelling shall provide recycling information to the occupants of each dwelling unit on the property consistent with the City of Maplewood Solid Waste Management Standards. (3) Responsibility for providing and maintaining recycling containers. a.If the owner of a multiple-family dwelling uses the city's recycling contractor, then the contractor shall provide and maintain adequate recycling containers for the needs of the property and its occupants; or b. If the owner uses an independent recycling contractor, the owner shall assure adequate recycling containers are provided and</p>	<p>landfill. (C) Compost. A person may place upon private property for collection or compost leaves, grass clippings, lake weeds, and easily biodegradable organic material. (1) Compost for collection. No person shall combine clean grass clippings and/or leaves for disposal into the refuse. Grass clippings and leaves shall be placed in approved containers for separate collection or composting. (2) Compost on private property. Compost containing garbage may be composted only in a rodent-proof structure or in an otherwise sanitary manner. (D) Disposal required. Every household or occupant or owner of any residence and owner of any commercial or industrial establishment shall, in a sanitary manner, place in a proper container or otherwise dispose of refuse that may</p>
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		<p>Institutional uses shall be stored within an enclosure subject to the following standards: a) The enclosure shall have an impermeable floor surface. b) The enclosure shall satisfy principal structure setback requirements for the applicable zoning district in which it is located. c) The enclosure shall be constructed of materials to match the exterior of the principal structure, with gates or doors having at least ninety (90) percent opacity. d) The enclosure shall be of sufficient size to enclose all trash and recyclable containers and shall be not less than six (6) feet and not more than ten (10) feet in height.</p>						<p>be subject to the approval of the Building Official. (f) Recycling space shall be provided as required by the Minnesota State Building Code. (g) Noise emanating from trash collection activities shall be minimized so as not to constitute a nuisance as defined and regulated by Section 2010 of the City Code.</p>	<p>maintained by the independent contractor. (4) Transportation and disposal. Upon collection by the city-contracted recyclables hauler or the owner's independent hauler, that person shall deliver the designated recyclables to a recyclable material processing center, an end market for sale or reuse, or to an intermediate collection center for later delivery to a processing center or end market. It is unlawful for any person to transport for disposal or to dispose of designated recyclables in a mixed municipal solid waste disposal facility. (5) Annual report. Each owner or manager of a multiple-family dwelling that does not employ the city's recycling contractor shall file an annual report with the city by January 31 of each year on a form detailed in the City of Maplewood Solid Waste Management Standards. (6) Administrative penalties. Violation of this article shall be charged as an</p>		<p>accumulate upon the owner's or occupant's property. (Ord. 589, passed 12-14-2009) Zoning Ordinance -- 153.096 (KK) Trash enclosure service structure: (1) Shall be required for all commercial, mixed use, industrial and multi-family uses. (2) Shall be no larger than 400 square feet unless approved by the city. (3) Shall be built to maintain the color and style of the principal buildings. (4) The structure shall contain either a swinging door or roll up door to contain debris. (5) Shall meet the required setbacks of the underlying zoning district. (6) The structure shall not contain any vehicle storage unless approved by the city.</p>
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<p>2. Can you tell me why the ordinance was developed and why it is worded as it is (i.e. complaints, compliance with Minnesota Rules related to waste enclosures, etc.)? If you don't know, who would you suggest I contact for an answer to this question?</p>	<p>They've been the same for a long time, the enclosure ordinance was developed to provide screening of roll offs and materials around them--three side solid with a screened door-- primarily for aesthetic purposes.</p>	<p>re. zoning ordinance, an aesthetic implementation, trash containers looked out of place, no designated space, ordinance provided permanent place for containers, screening, and aesthetically pleasing</p> <p>functionality was also a consideration for the ordinances</p> <p>they are a very complaint driven department, if there are a lot of complaints, they'll make an ordinance that addresses it</p>	<p>didn't know background of why ordinance was set up, logic is that refuse should be minimized and should not affect nearby properties, correct nuisance characteristics, correct language that was there before that didn't adequately address the nuisance issue</p>	<p>He didn't have any history of enclosure ordinance for the city. Burnsville is 4th city he's worked in, every city has a different treatment of this issue. Burnsville had huge growth in mid-1990's -- most new buildings during this time have interior enclosures with chutes. He hopes to do an enclosure inventory this Summer with an intern. Current ordinance requires a roof and with materials compatible to building structure.</p>	<p>1981-82 -- a woman while working a restaurant in Bloomington was assaulted and murdered while taking the trash to an outdoor enclosure. The city was extremely rattled by this and decided to require that all trash be kept indoors for safety, an aesthetic reasons. In 1982, a standard policy condition was put into place and then a full zoning code was enacted in 2001. The code is grandfathered back to 1982 and includes provisions for building expansions and new builds. Londell noted they have 15-20 enforcements of the code each year. Bloomington has annual rental license inspections and Londell said that more often than not, building owners will move the trash indoors for the inspection and then move it back outdoors after the inspection.</p>	<p>dates back to at least Nov. 1990, verbiage is relatively standard, over 4 units are covered in the ordinance</p>	<p>Kirk thought the ordinance was developed in 2010 primary due to aesthetics and a desire for a clean and pleasing environment. Older building are grandfathered in and don't need to meet code unless there is a major re-model or addition-- enclosures would need to be brought up to code in these cases. All new builds are required to follow code.</p>	<p>part of it is aesthetics, the reason is it's in public health is sanitation, when there is a service that no one else is doing traditionally it's been local government that picks it up, when businesses are able to adequately pick up the responsibility the ordinance language may relax a bit, safety is also an issue</p>	<p>developed with the intent to screen trash from an aesthetics standpoint, enacted probably in 1982</p>	<p>current ordinance was written in 1991, may be time to revisit ordinance, main issue is not to create a nuisance, (enter code language here), may need to talk with DSI--Dan</p>	<p>predates Dan, he thinks it was the desire to formalize the single hauler collection, truck traffic, same day collection, pricing, contact Donovan for answers</p>
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<p>3. To your knowledge which department in the city enforces this ordinance and do you know what the enforcement procedure is? If you don't know, who would you suggest I contact for an answer to this question?</p>	<p>planning department when it comes to new building submittals, building inspections when buildings are being built, if issues, neighborhood services formally known as the code enforcement department takes care of enforcement, police aren't involved in this enforcement unless there is a larger issue with the building owner generally no specific issues with enforcement--biggest issue is getting property owners to replace broken gates, some older facilities the enclosures aren't big enough to handle larger roll offs, some issues with roll offs not being in the enclosure -- lots of different reasons for this</p>	<p>Community Development/Planning department -- handles zoning related ordinances (enclosure on site, function well, look good, etc.) Community Service Officers/Police Department -- handles general code of ordinances (Jill's Chapter 10 research)</p> <p>enforcement procedures -- two different avenues -- 1) complaint driven, they'll inspect and determine if there is a violation with the provisions of the ordinances, if a violation, a letter is sent and allow the owner to address the issue in a reasonable time frame, inspection done, if not in compliance, two more warnings, after third warning a citation is issued, that starts the court process, pay fine, go through court process 2) when development</p>	<p>moved around enforcement through the years, part of zoning code but enforced through licensing and code enforcement, not proactively going out and looking for these things, if new structure -- they they're looking, respond to compliance, go look, letter sent, made to comply if 4 or 5 attempts have been made</p>	<p>Chris and his staff enforce in conjunction with community development department. Cost of compliance is the biggest issues with enforcement. Location is the second biggest issue--limited space, room for trucks to maneuver.</p>	<p>environmental health enforces the code, triggers for inspection include complaints and annual rental license inspections</p>	<p>zoning goes out if there isn't a dumpster enclosure, if too much garbage around enclosure then it's housing and fire inspections services, Brad will email me with a housing and fire inspection services person Zoning enforcement -- operate on complaint basis, if new construction they have to indicate enclosure location inspection after complaint, work with them to come into compliance</p>	<p>Jeff's department -- Community Development/Rental Inspections. The cities in HRG are not being proactive in enforcing the code. All code enforcement is based on complaint--limited enforcement staff. Citations are issued if violations are identified. Each citation comes with a fine (\$50 for first) and then increase by 20% with following citation.</p>	<p>inspections and police department, depending on what the issue is, as much as possible we try to find out what is going before taking enforcement action, oftentimes enforcement action can be avoided by educating residents and property managers on what the rules are</p>	<p>Chris does the enforcement, under the planning umbrella, on the books for quite a while, there hasn't been a lot of follow-up enforcement wise, as conditional use permits come up, enclosures are addressed, Chris also notes violations when he's driving around, council members and residents are aware of enclosure issues, Maplewood doesn't have an annual MU review, he thinks that most multi-unit have enclosures, very few issues with MU enclosures, most issues are with business, 44-19 applies to residential and commercial</p>	<p>ask Dan about how it's enforced</p>	<p>Zoning enforces, ensures that enclosure is built to code, code enforcement section enforces, complaint based, if complaint received, code enforcement goes out, letter goes out, etc.</p>
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		applications come in, during site plan process, ensure that they have a location for trash enclosure and meets current ordinance requirements								
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<p>4. This is the current Minnesota State code related to waste and recycling at Multi-Unit residential properties (show written code). Does your city think that this code adequately addresses the real world situation with waste materials that are generated by these types of properties, i.e. defines sufficient space for recycling and bulky waste?</p>	<p>yes, but with so much more material being recycled, newer buildings it works, also now nobody is anticipating what is going to happen with organics, what is going to happen with this material, a best practice for organics should be incorporated in the MN Code, don't neglect organics like recycling was and everyone was in the position of having to figure out what they should do with organics</p>	<p>Chaska ordinance doesn't have size limitations, zoning side of things proven successful because it's not very limiting, successful at screening, etc.</p>	<p>no official opinion on this</p>	<p>No, it's another directive that is an unfunded mandate. From his perspective many building owners are going to have trouble, mostly cost wise, to achieve the mandate. Also who is going to enforce it?</p>	<p>Londell wasn't award of the MN State code, he took a copy from me for future reference</p>	<p>Brad will get me in touch with the building code person</p>	<p>All three noted that many enclosures are too small to fit a waste and recycling dumpster and pretty much all enclosures are too small to accommodate organics. They through the MN State code was fine in addressing space for waste in recycling.</p>	<p>city council would say that is should be up to local government to be able to add anything that's appropriate for their area, planning would be able to comment further on this question</p>	<p>is aware of these requirements and the City of Maplewood is good with the code as it is written, could be more modifiable for certain situations,</p>	<p>DSI -- check with them on whether the MN code specifications are sufficient, city if thinking that they may co-collect trash with recycling</p>	<p>is adequate, Forest Lake doesn't have a lot of issues with violation of the multi-family code for enclosures</p>
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<p>5. What are the top three issues your city has had with enforcement of this ordinance or with waste enclosures in general in the city?</p>	<p>replacing broken gates, older facilities that aren't properly sized for recycling, and roll offs that don't make it back into the enclosure for whatever reason</p>	<p>the City has had a lot of complaints in this area, has seen instances of older projects having poorly designed trash in enclosures, not structurally sound, has seen these enclosure herself but hasn't gotten a lot of complaints from the public about them</p>	<p>common issues -- 1) as needs continue to grow, waste space needs start to cannibalize on other space needs at the property such as parking spaces, 2) some owners have hard time keeping the waste/recycling areas properly maintained, 3) overflowing garbage enforcement -- complaint basis...then follow-up standard enforcement from there, not applying state statute</p>	<p>No model standards for waste enclosure--this would be very helpful, things Waste Management used to have such a standard. It would be helpful to have a model ordinance, League of Minnesota Cities may be a good partner on this. If you get haulers on board with this, it's an easier sell to them. Have to have a reason/incentives for cities to get this done. Incentives could be..."that's a good question, I'm not really sure". Maybe some funding incentives for property owners would help. There needs to be a carrot but he doesn't know what that is.</p>	<p>continual violators and how to deal with them, cleanliness--can't build an indoors trash room without the use of quarry tile floor, HVAC, etc., safety</p>	<p>retroactive for older buildings--not enough space to fit everything under current code requirements, letting poorly maintained enclosures go and then they have a lot of maintenance related complaints, issue with compliance</p>	<p>"grandfathered properties", limited physical space on property for enclosures, may enclosures are too small for more than one dumpster</p>	<p>one of them would be the screening, one would be noise ordinance, another is illegal dumping--mostly electronic related items</p>	<p>hard to reach building owners, finding time to do enforcement activities, general maintenance, haulers and people driving around enclosures are damaging enclosures</p>	<p>DSI -- Dan</p>	<p>he doesn't remember having issues with multi-family waste enclosures, there may be issues on front end design issues</p>
<p>6. How does your city deal with the owner of waste enclosures that are inadequate or don't comply with the related city ordinance?</p>	<p>by complaint and neighborhood services go out, some enclosure are grandfathers to don't need to comply, if a property is significantly remodeling the city will require that they come up to code enclosure</p>	<p>complaint driven (see enforcement process noted above), this is the only time they would get involved with the owner--when they have received a complaint from the process</p>	<p>meet with owner on site, work with them to resolve situation, situations solved in this manner, couldn't think of an instance that owner was taken to court</p>	<p>If they have them and they can be repaired they need to do so--as the enclosure was originally constructed. Deals with non-existing enclosures -- they need to be in compliance with the ordinance. Burnsville has 84 large MU</p>	<p>enforcement, annual rental license inspection, nuisance code--if more than three violations for xx period, \$xx fee</p>	<p>for zoning, stick and fines, no proactive way of helping people with this issue</p>	<p>administrative notice/citation process</p>	<p>inspections talks to them first and then planning and zoning works with the owner of the building, the owners more often than not bring up enclosure cost issues, planning and zoning usually has suggestion on materials but they don't sketch anything out--screening, pad, other materials,</p>	<p>send letter that lays out enforcement process, will try to find onsite manager and explain ordinance, walk up ladder to get to the right person, for newly constructed properties they write in enclosures compliance into conditional use permits, tenants tend to be more of</p>	<p>DSI - Dan</p>	<p>zoning code enforcement would go out and investigate</p>

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	issues in general not that big of an issue, property owners generally maintain them pretty well			complexes and they don't know what going on with those buildings. Have Gena connect with Chris before selecting buildings for enclosure inventory.				etc., P and Z will give them time to come up with a solution, reviews and approves any changes	a problem than the enclosure issue, property managers in the city tend to be more proactive than not		
7. How does your city deal with waste and recycling in other areas besides multi-unit residential properties such as businesses? If you don't know, who would you suggest I contact for an answer to this question?	single family--organized collection, commercial/industrial--the city really doesn't get involved--enclosure need to be in compliance but they otherwise don't manager waste for C&I	same rule applies for businesses as it does for multi-unit properties, might be different for general ordinance	same ordinance applies to commercial	Pretty much the same as far as enforcement procedures. Same ordinance applies with some small differences here and there.	single family residential is the only area where they stay hand off, business, etc. is dealt with in the same way	535.80 addresses any residential 5 units and above, commercial and industrial, see conditional use language	ordinance regulates location and screening requirements	same inspections and enforcement path as for multi-unit residential, tries to direct business issues to the county (Andrew at Hennepin County), Plymouth does provide some recycling assistance but not always or consistently, Sarah has been doing this, is part-time now, and will soon be leaving	see 44-19	357 probably covers all residential and commercial -- Jill will read through code before calling Dan	153-096, commercial can contract with whichever waste hauler they want, he hasn't see many complaints on the commercial side, they don't take an active role to go out and find violations, they response if a complaint comes in

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<p>8. Are mattresses and bulky items like couches and mattresses an issue for your city? If so, what solutions have you tried or could recommend?</p>	<p>bulky for single family is dealt by the hauler, recycling drop off day 3rd Saturday of every month, MU--hasn't had problems that Roark has heard about, Roark is not sure what MU residents and owners are doing with bulky about 15 or so 4+ MU properties--many are senior living buildings</p>	<p>can't really comment on, gets into realm of trash being outside of receptacles, community officers address this, will need to check with them</p>	<p>clean up days--cheapest way for people to get rid of items, recycling days, they've talked about the idea of putting cameras in problem areas but haven't moved forward with this idea, enforcement end is a tough one, they usually do things on two week time tables</p>	<p>Only when they're abandoned on someone else's property. Special pick-ups are in place which addresses most of the problem</p>	<p>no, they require bulky items to be inside the building, tenant is responsible for arranging for the disposal of bulky items themselves</p>	<p>it is, end of month is when they get the most complaints about overflowing dumpsters, most regulations are aimed at owner, tied to annual rental license renewal (housing and fire inspections folks handle the rental license renewal which is primarily fire and life safety related building issues)</p>	<p>Yes. They've tried bulk pick-up days every other year. Curb side pick-up is free of charge for larger items for 8 units or less. More than 8 units, they're on their own. Bulky items don't seem to be a problem but the do see mattresses and such next to dumpster or stuffed inside of dumpsters from time to time.</p>	<p>we don't get a lot of dumping in the parks, they have an annual drop off day, one-flat fee/load last year for first time, electronics are most commonly dumped, flat fee was effective in increasing drop off of these items, they lose money doing this but they still do it because people are more likely to recycle and not dump these materials, the provide a lot of education, they're working with an organization called Simple Recycling to set up a curb side recycling--residential only (things that you wouldn't donate to charity, broken, soiled, ripped--clothing, jewelry, shoes, toys, etc.), Simple Recycling breaks it down and re-used where possible, Sarah mentioned that Brooklyn Park, St. Louis Park and some other cities were also starting service with Simple Recycling</p>	<p>oh yeah....such an issue, in parks, on the side of the roads, it's really an issue, tries to work with MU's to address the issue, encourage camera surveillance, it's something that will never go away even if they constant free collection, encourages property owners to educate tenants on what to do with bulky items</p>	<p>Yes, absolutely, 12 college campuses in St. Paul, 35,000 multi-family units, 1/3 is MU bigger than 4-unit, hoping to address bulkiest in new organized trash plan, 4 collection events a year, two transfer stations available for drop off any time of year for anyone, \$250,000 spent in 2016 to get bulkiest out of parks, etc.</p>	<p>not a big issue, organized collection offers coupons for residents to dispose of bulky waste, a few instances of single family property to much waste outside, handled appropriately when it happens</p>
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<p>9. What are the biggest challenges and success for multi-unit recycling?</p>	<p>see challenges above, success -- haven't had that much hands on with MU units yet, Roark is starting to engage MU's more starting this year</p>	<p>from zoning perspective, have trash and recycling enclosure outside that meet ordinance, make sure it fits on site if designed appropriately, it'll at the aesthetics and functionality ensuring a successful waste management program all around</p>	<p>space constraints, tenant and property manager cooperation, code enforcement is on contract on a part-time basis so staffing for enforcement is an issue (they'd need 2-3 FT to get the job done)</p>	<p>C - Cost of complying for property C - Placement and space constraint issues. City planners from now on should plan for proper space-- comes back to having a model ordinance. C - As a health inspector -- back in the day it was permitted to store refuse inside a structure -- many issues related to this. Architectural designs and fire codes need to be looked at S -- They've been thin, he hasn't measured success. S-- A successful program is being provided to their residences.</p>	<p>education is biggest challenge, what they can do, what the code is</p>	<p>challenge -- new construction ease of convenience to encourage recycling, successes--not directly involved in implementation</p>	<p>C - to enforce ordinance in a way that makes sense for everyone (space issues, etc. C - educating property owners and residents C - financial issues -- for property owners to make needed changes S - they don't get many complaints S - they've documented that the majority of the multi-unit properties are recycling</p>	<p>biggest challenge is the high turnover of tenants and getting the time and attention of property managers, they require annual reports from multi-unit property managers, success-- people really want to recycle, they get very frustrated when they can't easily reach the location where they can recycle--waste disposal is always easier than recycling</p>	<p>bulky waste, transient nature of tenants, they have a good relationship with property managers, good web site with easy to access information</p>	<p>successes -- St. Paul has had a multi-unit recycling program for 30 years, Eureka and public works are meeting with every MU property owner to right size challenges -- communication and education, multiple language materials, right sizing, making sure recycling containers are consistent and convenient, new contract with Eureka that all buildings are being served effectively, city has taken over communication piece, when there isn't an onsite property manager it poses lots of additional issues, AmeriCorps folks to do strategic outreach to communities of color, multiple strategies to increase participation. buildings between 5 and 11 units now get wheeled lidded carts</p>	<p>challenge -- communications, get them aware of current regulations, changes to programs, Washington county grant -- targeted ads to mu-family units, increase awareness, they don't have readily available lists of mu-family properties success - they haven't had a lot of complaints, they don't have problems with overflowing garbage, sometimes mu-family residents think they can take advantage of the single family home coupon program success - few complaints</p>
<p>10. What are your thoughts on these enclosure design diagrams?</p>	<p>N/A</p>	<p>main material of enclosure should be compatible with the existing building, no usability language, enforces screening, functionality</p>	<p>N/a</p>	<p>ideal ordinance language would address -- durable construction, placed on concrete based pad, capable of handling loads, adequately sized for ALL containers,</p>	<p>N/A -- trash needs to be stored inside the building</p>	<p>N/A</p>	<p>N/A</p>	<p>phone conference so I didn't show her any diagrams</p>	<p>Every now and then he'll get questions, most MU enclosures are already built, he gets more questions from businesses</p>	<p>N/A</p>	<p>no comments due to so few complaints</p>

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		addresses enclosing all trash receptacles not necessarily how user friendly the enclosure actually is		epoxy coated so can be cleaned easily, no roof necessary, self-closing, sanitary and safe							
11. Would your city be open to revising the waste enclosure ordinance so that it is more effective at solving enclosure issues and perhaps more consistent with other city waste enclosure ordinances in your county and surrounding counties? For instance, would your city be open to allowing a non-4-sided enclosure (i.e. one-sided screen, three-sided	Perhaps, depending on what is says allocation of waste management space should reflect your goals--waste smallest, recycling larger, organics?? enclosures being undersized is a BIG issue, while the amount of the material coming out of the units may be the same, the collection containers outside require more square feet of space NO city money for new enclosures collection mechanism of how you collect and store the materials drives what happens with enclosures	always open to other options that meet same intent of screening, wants to make sure that the intent is being met, the look of it needs to be pleasing	they'd be open to it as long as it doesn't impact other area too much	I don't want to speak for city council but I think we'd be receptive to a better way. There needs to be an incentive for property owners built it.	trash can't go outside but they're willing to listen to other potential changes	Open to amending but would have to go to council, it would be a big deal with a lot of departments, could become a political discussion, would need policy maker buy in	ordinances are now sufficient in addressing screening, they didn't say whether they'd be willing to revise the ordinance but I think this answer means no	I'd need to ask Marie Darling in Zoning, mdarling@plymouthhmn.gov	they'd be open, if it's good and enforceable, going through act of changing things is difficult, the city community design and review board is essentially a last stop for ensuring that new enclosures meet code	This Summer they'll be looking at 357 revisions	they'd be open to discussion, try to accommodate, planning commission would review and decide, if regulation change makes sense they'll consider it

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Interviewer Notes	organics language in State code			C - He struggles with used cooking oil containers for food prep business. Aesthetics is by far the primary reason that the enclosure ordinance was written. As a health inspector, the most important factor is--is it going to do the job it's supposed to do. Target elected officials, if it's a priority with them, resources are more likely to be made available.	Londell noted that the code they have is based on once/week pick and no compaction. They're looking at revising the code accordingly being that some in the city have pick-ups more than once a week and/or use a compactor. Bloomington also doesn't address recycling space in the code but they address it in general.	re. aesthetics -- do matter, one the main reasons they require screening is aesthetics, in older buildings materials don't need to be required--cedar fence is okay, new buildings enclosure material needs to be compatible with building exterior enclosures are not at the top of the list of enforcement priorities	- space for organics will be an issue and HRG would be more supportive of collection such as blue bag rather than a solution that involves separate containers and collection - HRG holds quarterly best practices meeting for MU property owners, they get a good discount on annual fees (would need to clarify which fees and the amount with Jeff). Not all property managers attend these meeting.	Sarah--having worked for State and local governments, her experience is such that she can say that the city code doesn't touch the zoning ordinance, when a business or multi-unit residential property manager looks at Chapter 6 of their ordinance in Plymouth for instance they more often than not aren't aware that they also need to be paying attention to the zoning ordinance, the city code and zoning people don't always talk to each other, there needs to be a reference or conduit between the two, people in these areas need to be talking to each other and a plan, path to success developed--do A, do B, do C and then do D if need be	he thinks the biggest issues with MU enclosures is the gate (usability, and existence of it--missing, etc.) and bulky waste, they have more control because MU's have recycling the city, the nature of waste--it probably doesn't matter how nice or user friendly an enclosure is, people are still going get lazy and you'll always need to educate people, area where most progress can be made is working directly with property managers to educate tenants	connect with Dan at DSI for enforcement related questions, Wilder study in 2013 was focused on how to make it easier for MU recycling	issue has been quiet for them, very few issues
Follow-Up Needed		Connect with someone else at the city				Connect with someone else at the city		Connect with someone else at the city		Connect with someone else at the city	Connect with someone else at the city
Other Follow-Up Needed		contact someone in the police department, non-emergency line to find out who the right person is to find out about the general ordinance related -- 952-448-4200				Brad will connect me with housing and fire inspections, and one of the building officials					Donavan Hart, Zoning Administrator, see business card, he can answer more specific zoning questions

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Appendix B: Detailed Enclosure Survey Results

Detailed Enclosure Survey Results (Anoka County - Blaine)																			
	BLN1	BLN2	BLN3	BLN4	BLN5	BLN6	BLN7	BLN8	BLN9	BLN10	BLN11	BLN12	BLN13	BLN14	BLN15	BLN16	BLN17	BLN18	BLN19
Year Building Built	1992	1992	1992	1994	1980	1980	1980	1991	1991	1970	1970	1970	1970	1968	1983	1983	1983	1972	1990
# of Units	72	72	72	32	75	75	75	72	72	140	140	140	140	63	100	100	100	53	54
Sq. Ft.	78,462	78,462	78,462	30,170	66,330	66,330	66,330	70,845	70,845						98,063	98,063	98,063	35,156	42,654
County	Anoka	Anoka	Anoka	Anoka	Anoka	Anoka	Anoka	Anoka	Anoka	Anoka	Anoka	Anoka	Anoka	Anoka	Anoka	Anoka	Anoka	Anoka	Anoka
Is the garbage & recycling inside or outside of the building? If inside, check box and skip to Enclosure Characteristics Section.	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside
If inside, where?																			
On what side of the building is the exterior enclosure placed?	North	North	North	West	North	North	West	East	West	South	West	North	West	North	West	West	South	South	East
Is the enclosure connected to the building?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
How many feet from the building is the	120	120	120	40-60	50	50	20	20	20	30	70	70	30	100	200	100	50	20-150	75

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enclosure?																				
What is the height of the enclosure? (feet)	6	6	6	6	6	6	6	5	5	7	6	6	6	6	6	6	6	6	6	6
What is the width of the enclosure? (feet)	15	15	15	10	10	10	10	15	15	12	15	15	15	16	8	10	10	8	12	12
What is the depth of the enclosure? (feet)	20	20	29	10	12	12	12	12	12	12	12	12	12	10	8	8	8	8	8	10
What kind of surface is the enclosure placed upon?	Concrete	Concrete	Concrete	Pavement	Concrete	Concrete	Concrete	Concrete	Concrete	Pavement	Concrete	Concrete	Concrete	Concrete	Pavement, Concrete	Pavement	Concrete	Pavement	Concrete	Concrete
What is the condition of the enclosure?	Good	Good	Good	Good	Good	Good	Good	Fair - needs to be repaired	Fair - needs to be repaired	Poor - needs to be replaced	Good	Good	Fair - needs to be repaired	Good	Good	Good	Good	Fair - needs to be repaired	Poor - needs to be replaced	Fair - needs to be repaired
What material are the walls made out of?	Wood fence panels	Wood fence panels	Wood fence panels	Masonry walls	Wood fence panels	Wood fence panels	Wood fence panels	Masonry walls	Masonry walls	Wood fence panels	Masonry walls	Masonry walls	Wood fence panels	Masonry walls	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Masonry walls
What material is the gate made out of?	Wood fence panels	Wood fence panels	Wood fence panels	Chain link fence	Wood fence panels	Wood fence panels	Wood fence panels	Chain link fence	Chain link fence	None	Vinyl fence panels	Vinyl fence panels	None	None	None	None	None	None	None	Wood fence panels
What kind of latch does the gate have on it?	Drop latch	Drop latch	Drop latch	Drop latch	Drop latch	Drop latch	Drop latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Drop latch	Drop latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Drop latch
Is the gate in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Not applicable	Not applicable	Not applicable	Not applicable	Yes	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Yes

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Is there adequate signage on the outside of the enclosure?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Is the garbage located next to and within five feet of the recycling?	Not applicable	Not applicable	Not applicable	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Not applicable	Yes
Is there adequate signage on the containers within the enclosure?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes
Garbage Container Size [Garbage Container 1]	2 yd.	6 yd.	2 yd.	4 yd.	2 yd.	2 yd.	2 yd.	4 yd.	4 yd.	8 yd.	2 yd.	2 yd.	4 yd.	6 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.
Garbage Container Size [Garbage Container 2]	2 yd.	Not Applicable	2 yd.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	2 yd.	2 yd.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Garbage Container Size [Garbage Container 3]	2 yd.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	2 yd.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
If OTHER, note size here																			
Organics Container Size [Organics Container 1]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Organics Container Size [Organics Container 2]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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If OTHER, note size here																			
Recycling Container 1	Not Applicable	Not Applicable	Not Applicable	Mixed, 2 yd.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Paper, 96 gln., 2 paper 96-g carts	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Not Applicable	Mixed, 2 yd.
Recycling Container 2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	96 gln., 2 cans/bottles 96-g carts	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Not Applicable	Not Applicable
Recycling Container 3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Mixed, 96 gln.	Mixed, 96 gln.	Not Applicable	Not Applicable	Not Applicable
Are the GARBAGE containers adequately sized for the number of occupants in the building?	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
Are the RECYCLING containers adequately sized for the number of occupants in the building?	Not Applicable*	Not Applicable*	Not Applicable*	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Not Applicable*	No
Are the ORGANIC containers adequately sized for the number of occupants in the building?	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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Is the enclosure adequately sized for the load?	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
Are all waste and recycling materials placed within the enclosure?	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	No	Yes
If not, what is found outside of the enclosure?				Tire on ground inside enclosure			Grill					Furniture/chest		≥ TVs, 1 child's bed				TVs, chair	
Are there any obvious smell or critter issues with the enclosures?	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No
If yes, what are the issues observed?											Trash dumpster smells like stale cigarettes								
Are there any safety or security concerns with the enclosures?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
If yes, what are the issues observed?																			

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Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Notes for the above question																			
Waste Hauler:	Republic	Republic	Republic	Walter's	Republic	Republic	Republic	Walter's	Walter's	Allied Waste	Republic	Republic	Aspen	Randy's	Randy's	Randy's	Ace Solid Waste	Republic	
Waste Hauler Pick-up Frequency:																			
Recycled Material Hauler:				Walter's	Republic	Republic	Republic	Walter's	Walter's	Republic	Republic	Republic	Aspen	Randy's	Randy's	Randy's		Republic	
Recycled Material Hauler Pick-up Frequency:																			
Organics Hauler:																			
Organics Hauler Pick-up Frequency:																			
Is the enclosure in compliance with the enclosure ordinance?	Yes	Yes	Yes	No	Yes*	Yes*	Yes*	No	No	GC*	GC*	GC*	GC*	Yes*	GC*	GC*	GC*	GC*	Yes
"garbage receptacles must be in either the rear or side yards"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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"screened from public view by a six-foot-high solid fence"	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
Does it comply with MN Statute for providing adequate recycling space?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Unable to determine	No	No	No	No	Yes
Other notes:	No recycling carts/dumpsters at all	Dumpster placed in front of tenant entrance to the enclosure--no way to walk in to access it. No recycling at all.	No recycling	Recycling dumpster located in handicap parking spot. Need to expand enclosure. Lid to trash dumpster heavy/difficult to open.	Exercise equipment inside enclosure	Dumpster facing away from entrance to enclosure--difficult for tenants to access. Furniture inside enclosure.		Stove inside enclosure.	Stove, clothes, and satellite dish inside of enclosure.	Tire inside enclosure. Recycling carts outside --need to expand.	Couch inside enclosure.		3 TVs inside enclosure	Recycling carts outside of enclosure. Cardboard found in trash dumpster.	Recycling carts outside of enclosure. Furniture inside trash dumpster.	Tv inside enclosure. Recycling inside trash dumpster. Side of enclosure falling apart.	No recycling. Back wall of enclosure falling apart.	Plastic bags in recycling dumpster--sign does not specify no bags. Tv inside enclosure. Food waste inside trash dumpster.	

Detailed Enclosure Survey Results (Carver County - Chaska)

	CHK1	CHK2	CHK3	CHK4	CHK5	CHK6	CHK7
Year Building Built	1980	1980	1980		1987	1987	1987
# of Units	28	28	18	37	84	84	84
Sq. Ft.	15,062	15,062		47,479	42,914	42,914	42,914
County	Carver	Carver	Carver	Carver	Carver	Carver	Carver

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Is the garbage & recycling inside or outside of the building? If inside, check box and skip to Enclosure Characteristics Section.	Outside	Outside	Outside	Outside	Outside	Outside	Outside
If inside, where?							
On what side of the building is the exterior enclosure placed?	West	North	North	West	South	East	West
Is the enclosure connected to the building?	No	No	No	N/A	No	No	No
How many feet from the building is the enclosure?	50	30	20	N/A	50	30	30
What is the height of the enclosure? (feet)	4	6	6	Na	6	6	6
What is the width of the enclosure? (feet)	8	10	15	Na	12	12	12
What is the depth of the enclosure? (feet)	15	12	15	Na	8	6	6
What kind of surface is the enclosure placed upon?	Concrete	Pavement, Dirt	Dirt	Grass	Concrete	Concrete	Concrete
What is the condition of the enclosure?	Good	Good	Good	N/A	Good	Good	Good
What material are the walls made out of?	Wood fence panels	Wood fence panels	Wood fence panels	None	Wood fence panels	Wood fence panels	Wood fence panels
What material is the gate made out of?	None	None	None	None	None	None	None

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What kind of latch does the gate have on it?	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch
Is the gate in good working condition?	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Is there adequate signage on the outside of the enclosure?	No	No	No	Not applicable	No	No	No
Is the garbage located next to and within five feet of the recycling?	Not applicable	Not applicable	Yes	Yes	Not applicable	Yes	Not applicable
Is there adequate signage on the containers within the enclosure?	No	No	No	No	No	No	No
Garbage Container Size [Garbage Container 1]	2 yd.	4 yd.	2 yd.	96 gln.	4 yd.	4 yd.	4 yd.
Garbage Container Size [Garbage Container 2]	2 yd.	Not Applicable	Not Applicable	Not Applicable	4 yd.	4 yd.	4 yd.
Garbage Container Size [Garbage Container 3]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
If OTHER, note size here				4 96-g carts total			
Organics Container Size [Organics Container 1]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Organics Container Size [Organics Container 2]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
If OTHER, note size here							
Recycling Container 1	Not Applicable	Not Applicable	Mixed, 96 gln., 6 96-g carts total	Mixed, 96 gln., 5 96-g carts total	Not Applicable	Mixed, 96 gln., 12 96-g carts total	Not Applicable
Recycling Container 2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Recycling Container 3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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Are the GARBAGE containers adequately sized for the number of occupants in the building?	Yes	Yes	Yes	No	Yes	Yes	Yes
Are the RECYCLING containers adequately sized for the number of occupants in the building?	Not applicable*	Not applicable*	Yes	No	Not applicable*	Yes	Not applicable*
Are the ORGANICS containers adequately sized for the number of occupants in the building?	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Is the enclosure adequately sized for the load?	Yes	Yes	Yes	N/A	Yes	No	Yes
Are all waste and recycling materials placed within the enclosure?	Yes	No	Yes	N/A	Yes	No	Yes
If not, what is found outside of the enclosure?		TVs				Furniture	
Are there any obvious smell or critter issues with the enclosures?	No	No	No	No	No	No	No
If yes, what are the issues observed?							
Are there any safety or security concerns with the enclosures?	No	No	No	No	No	No	No
If yes, what are the issues observed?							
Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Notes for the above question							

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Waste Hauler:	Dick's Sanitation	Dick's Sanitation	Elite Waste Disposal	Allied Waste	Randy's	Randy's	Randy's
Waste Hauler Pick-up Frequency:							
Recycled Material Hauler:			Elite Waste Disposal	Republic		Randy's	
Recycled Material Hauler Pick-up Frequency:							
Organics Hauler:							
Organics Hauler Pick-up Frequency:							
Is the enclosure in compliance with the enclosure ordinance?	No	No	No	No	No	No	No
"shall either be equipped with waste containers* and pick-up service as provided herein or be equipped with a commercial incinerator complying with the requirements of the Minnesota Pollution Control Agency" *waste containers interpreted as both trash & recycling	No	No	Yes	Yes	No	Yes	No
"shall be at least one (1) cubic yard in capacity"	Yes	Yes	Yes	Yes	Yes	Yes	Yes
"shall be conveniently located in relationship to the residence units for which they are provided"	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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"shall be watertight, insect proof, rodent proof and fire proof, and provided with lid with the exception of recyclable containers"	Yes	Yes	No	Yes	Yes	Yes	Yes
"Waste discarded shall not be permitted to accumulate at or near the enclosure except in the container."	Yes	No	No	Yes	Yes	No	Yes
"All trash and recyclable containers stored outside for Multi-family, Public, Commercial, Office, Industrial, and Institutional uses shall be stored within an enclosure subject to the following standards:"	Yes	Yes	Yes	No	Yes	No	Yes
"a) The enclosure shall have an impermeable floor surface"	Yes	No	Yes	No	Yes	Yes	Yes
"b) The enclosure shall satisfy principal structure setback requirements for the applicable zoning district in which it is located."							
"c) The enclosure shall be constructed of materials to match the exterior of the principal structure, with gates or doors having at least ninety (90) percent opacity."	No	No	No	No	No	No	No

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<p>"d) The enclosure shall be of sufficient size to enclose all trash and recyclable containers and shall be not less than six (6) feet and not more than ten (10) feet in height."</p>	No	Yes	Yes	No	Yes	Yes	Yes
<p>Does it comply with MN Statute for providing adequate recycling space?</p>	Yes	Yes	Unable to determine	No	Yes	Yes	Yes
<p>Other notes:</p>	No recycling	No recycling. Furniture inside trash dumpster.	Yard Waste and tv inside enclosure. Garbage dumpster overflowing.	No actual enclosure	No recycling at all	Carts could belong to individual units, rather than out at a central location at all times. Bed frame outside of enclosure.	No recycling. Door and wood pieces in trash dumpster.

Detailed Enclosure Survey Results (Dakota County - South St. Paul)

	SSP1	SSP2	SSP3	SSP4	SSP5	SSP6	SSP7	SSP8	SSP9	SSP10	SSP11	SSP12	SSP13	SSP14	SSP15	SSP16	SSP17
Year Building Built	1966	1916	1972	1972	1964	1964	1916	1963	1910	1960	1983	1930	1968	1961 (1988 reno)	1985	1965	1964
# of Units	11	53	24	24	19	16	4	8	4	17	4	6	4	11	4	11	11
Sq. Ft.	9,720		23,322	24,234		15,148	4,515	7,728	3,724	14,664	4,176	5,168	3,330	8,346	4,068	10,080	10,080
County	Dakota	Dakota	Dakota	Dakota	Dakota	Dakota	Dakota	Dakota	Dakota	Dakota	Dakota	Dakota	Dakota	Dakota	Dakota	Dakota	Dakota

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Is the garbage & recycling inside or outside of the building? If inside, check box and skip to Enclosure Characteristics Section.	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside
If inside, where?																	
On what side of the building is the exterior enclosure placed?	West	North	West	West	East	West	East	West	West	South	North	South	North	North	West	North	East
Is the enclosure connected to the building?	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No
How many feet from the building is the enclosure?	30	50-300	45	45	50	100	25	20	50	10	40	50	50	50	40	30	25
What is the height of the enclosure? (feet)	No enclosure	15	No enclosure	No enclosure	No enclosure	No enclosure	No enclosure	No enclosure	No enclosure	6	No enclosure	No enclosure	No enclosure	No enclosure	8	No enclosure	No enclosure
What is the width of the enclosure? (feet)	Na	10	Na	Na	Na	Na	Na	Na	Na	15	Na	Na	Na	Na	7	Na	Na
What is the depth of the enclosure? (feet)	Na	15	Na	Na	Na	Na	Na	Na	Na	8	Na	Na	Na	Na	4	Na	Na
What kind of surface is the enclosure placed upon?	Pavement	Concrete	Grass, Dirt	Pavement	Pavement	Pavement	Grass, Dirt	Pavement	Concrete	Pavement	Concrete	Pavement	Pavement	Pavement	Pavement, Grass, Dirt	Pavement, Dirt	Pavement
What is the condition of the enclosure?	N/A	Good	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Good	N/A	N/A	N/A	N/A	Fair - needs to be repaired	N/A	N/A
What material are the walls made out of?	No walls	Concrete	None	No walls	None	None	None	None	None	Wood fence panels	None	None	None	None	Chain link fence	None	None

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What material is the gate made out of?	No gate	Metal panel	No gate	No gate	None	None	None	None	None	None	None	None	None	None	None	None	None
What kind of latch does the gate have on it?	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch
Is the gate in good working condition?	Not applicable	Yes	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Is there adequate signage on the outside of the enclosure?	Not applicable	No	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	No	Not applicable	Not applicable	Not applicable	Not applicable	No	Not applicable	Not applicable
Is the garbage located next to and within five feet of the recycling?	Yes	Yes	Yes	Yes	No	Yes	Not applicable	Not applicable	Yes	Yes	Not applicable	Yes	Yes	Not applicable	Not applicable	Yes	Yes
Is there adequate signage on the containers within the enclosure?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Garbage Container Size [Garbage Container 1]	4 yd.	4 yd.	6 yd.	6 yd.	6 yd.	6 yd.	96 gln.	2 yd.	96 gln.	6 yd.	6 yd.	4 yd.	96 gln.	4 yd.	4 yd.	2 yd.	2 yd.
Garbage Container Size [Garbage Container 2]	Not Applicable	4 yd.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	96 gln.	Not Applicable	96 gln.	Not Applicable	Not Applicable	Not Applicable	64 gln.	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Garbage Container Size [Garbage Container 3]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
IF OTHER, note size here																	
Organics Container Size [Organics Container 1]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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Organics Container Size [Organics Container 2]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
If OTHER, note size here																	
Recycling Container 1	Mixed, 96 gln.	Mixed, 96 gln., 3 96-g carts total	Mixed, 4 yd.	Mixed, 4 yd.	Mixed, 64 gln., 3 64-g carts total	Mixed, 96 gln.	Not Applicable, No recycling at all	Not Applicable	Mixed, 96 gln.	Mixed, 6 yd.	Not Applicable, No recycling	Mixed, 96 gln.	Mixed, 96 gln.	Not Applicable	Not Applicable	Mixed, 96 gln.	Mixed, 64 gln.
Recycling Container 2	Mixed, 96 gln.	64 gln., 3 64-g carts total	Not Applicable	Not Applicable	Mixed, 3 32-g carts total	Mixed, 96 gln.	Not Applicable	Not Applicable	Mixed, 96 gln.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Mixed, 96 gln.	Mixed, 96 gln.
Recycling Container 3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Mixed, 96 gln.	Mixed, 96 gln.
Are the GARBAGE containers adequately sized for the number of occupants in the building?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Are the RECYCLING containers adequately sized for the number of occupants in the building?	Yes	No	Yes	Yes	No	No	Not Applicable *	Not Applicable *	Yes	Yes	Not Applicable *	No	No	Not Applicable *	Not Applicable *	No	No
Are the ORGANICS containers adequately sized for the number of occupants in the building?	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Is the enclosure adequately sized for the load?	Not applicable	Yes	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Yes	Not applicable	Not applicable	Not applicable	Yes	Yes	Not applicable	Not applicable

MINNESOTA WASTE WISE FOUNDATION

Are all waste and recycling materials placed within the enclosure?	Not applicable	Yes	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Yes	Not applicable	Not applicable	Not applicable	Not applicable	Yes	Not applicable	Not applicable
If not, what is found outside of the enclosure?	Cardboard box		Mattress, box spring, metal shelf			Cardboard		Tv			Chairs, wood, table						
Are there any obvious smell or critter issues with the enclosures?	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No
If yes, what are the issues observed?			Squirrels in trash dumpster		Move out items- mattress, box springs, couches												
Are there any safety or security concerns with the enclosures?	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
If yes, what are the issues observed?		Stairs leading down into enclosure--PM says they are well-shoveled in winter															
Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

MINNESOTA WASTE WISE FOUNDATION

Notes for the above question		Republic pulls carts and dumpsters out into alley for collection															
Waste Hauler:	Tennis Sanitation	Republic	Tennis	Tennis	Republic	Troje's/Republic	Nitti	Republic	Tennis	Allied Waste	Troje's?	Nitti	Republic	Nitti	Nitti	Allied Waste	Allied Waste
Waste Hauler Pick-up Frequency:		3x/week-Mwf			1x/week							1x/week		1x/week		Tuesdays	Tuesdays
Recycled Material Hauler:	Tennis Sanitation	Republic	Tennis	Tennis	Republic	Troje's/Republic			Tennis	Allied Waste		Nitti	Republic			Allied Waste	Allied Waste
Recycled Material Hauler Pick-up Frequency:		1x/week			1x/every other week							1x/every other week					
Organics Hauler:																	
Organics Hauler Pick-up Frequency:																	
Is the enclosure in compliance with the enclosure ordinance?	No	Yes	No	Yes	No	No	No	No	No	Yes	No	No	Yes	No	Yes	Yes	Yes
"All solid waste material, debris, refuse, garbage, junk or similar material shall be kept within tightly closed containers designed for such purpose."	No	Yes	No	Yes	No	No	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

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"The containers shall be stored within a building or dumpster enclosure, or otherwise screened from view between days of scheduled pickup"	No	Yes	Yes	Yes	No	No	No	Yes	No	Yes	Yes	No	Yes	No	Yes	Yes	Yes
Does it comply with MN Statute for providing adequate recycling space?	No	Unable to determine	No	No	No	No	No	No	No	Yes	No	No	No	No	Yes	No	No
Other notes:		PM did not want me to take photos of the enclosure							No recycling	No recycling			No recycling		No recycling	No recycling	

Detailed Enclosure Survey Results (Hennepin County - Bloomington)

	BMG1	BMG2	BMG3	BMG4	BMG5	BMG6	BMG7	BMG8	BMG9	BMG10	BMG11	BMG12	BMG13	BMG14	BMG15	BMG16	BMG17	BMG18	BMG19	BMG20	BMG21	BMG22	
Year Building Built	1968 (2001 reno)	1968 (2001 reno)	1968 (2001 reno)	1968 (2001 reno)	1968 (2001 reno)	1968 (2001 reno)	1968 (2001 reno)	1968 (2001 reno)	1968 (2001 reno)	1969	1969	1964	1964	1967	1967								
# of Units	353	353	353	353	353	353	353	353	353	55	55	64	64	48	48								
Sq. Ft.										27,988	27,988	27638	27638	17,748	17,748								
County	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin	Henne pin

MINNESOTA WASTE WISE FOUNDATION

Is the garbage & recycling inside or outside of the building? If inside, check box and skip to Enclosure Characteristics Section.																							
	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside
If inside, where?																							
On what side of the building is the exterior enclosure placed?	South	North	North	North	North	North	North	North	North	North	East	East	North	South	North	South	North	South	North	South	South	West	North
Is the enclosure connected to the building?	No	No	Not Applicable	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
How many feet from the building is the enclosure?	100-500	100-500	100-500	100-500	100-500	100-500	100-500	100-500	100-500	100-500	500-1000	500-1000	300	500	100	100	0	0	0	0	0	0	0
What is the height of the enclosure? (feet)	6	6	6	6	6	6	6	6	6	6	7	5	6	4	6	6	5	5	Na	Na	Na	Na	Na
What is the width of the enclosure? (feet)	15	15	15	15	15	15	15	15	15	15	12	8	12	8	10	8	10	10	Na	Na	Na	Na	Na

MINNESOTA WASTE WISE FOUNDATION

What is the depth of the enclosure ? (feet)	12	12	12	12	12	8	12	12	12	12	7	7	8	6	8	8	3	3	Na	Na	Na	Na	Na
What kind of surface is the enclosure placed upon?	Pavement	Pavement	Pavement	Pavement	Pavement	Pavement	Pavement	Pavement	Pavement	Pavement	Pavement	Pavement	Concrete	Pavement, Concrete	Pavement	Pavement, Grass	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
What is the condition of the enclosure ?	Good	Good	Fair - needs to be repaired	Good	Good	Good	Good	Good	Good	Good	Good	Good	Fair - needs to be repaired	Good	Good	Fair - needs to be repaired	Fair - needs to be repaired	N/A	N/A	N/A	N/A	N/A	
What material are the walls made out of?	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	None	None	None	None	None
What material is the gate made out of?	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
What kind of latch does the gate have on it?	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch
Is the gate in good working condition ?	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Is there adequate signage on the outside of the enclosure ?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

MINNESOTA WASTE WISE FOUNDATION

Is the garbage located next to and within five feet of the recycling ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
Is there adequate signage on the containers within the enclosure ?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Garbage Container Size [Garbage Container 1]	8 yd.	8 yd.	8 yd.	8 yd.	8 yd.	8 yd.	8 yd.	8 yd.	8 yd.	8 yd.	Not Applicable	8 yd.	8 yd.	8 yd.	8 yd.	Other	Other	Other	Other	Other	Other	Other	
Garbage Container Size [Garbage Container 2]	8 yd.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other	Other	Not Applicable	Other	Other	Not Applicable	Other	
Garbage Container Size [Garbage Container 3]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other	Not Applicable	Not Applicable	Not Applicable	Other	Not Applicable	Other	
If OTHER, note size here																3 brutes	2 brutes	See photo	See photo	See photo	See photo	See photo	
Organics Container Size [Organics Container 1]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Organics Container Size [Organics Container 2]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	

MINNESOTA WASTE WISE FOUNDATION

If OTHER, note size here																							
Recycling Container 1	Mixed, 2 yd.	Mixed, 2 yd.	Mixed, 2 yd.	Mixed, 2 yd.	Mixed, 2 yd.	Mixed, 2 yd.	Mixed, 2 yd.	Mixed, 2 yd.	Mixed, 2 yd.	Mixed, 2 yd.	Not Applicable	Mixed, 2 yd.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Cardboard, See photo
Recycling Container 2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Cardboard, See photo	Cardboard, See photo	Cardboard, See photo	Not Applicable	Not Applicable
Recycling Container 3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Are the GARBAGE containers adequately sized for the number of occupants in the building?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Are the RECYCLING containers adequately sized for the number of occupants in the building?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

MINNESOTA WASTE WISE FOUNDATION

Are the ORGANICS containers adequately sized for the number of occupants in the building?	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Is the enclosure adequately sized for the load?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	Yes	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Are all waste and recycling materials placed within the enclosure?	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
If not, what is found outside of the enclosure?								Cardboard	Cardboard			Trash, recycling, household items					Mattresses						
Are there any obvious smell or critter issues with the enclosures?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No

MINNESOTA WASTE WISE FOUNDATION

Is the enclosure in compliance with the enclosure ordinance?	No	No	No	No	No	No	No	No	No	No	GC*	GC*	GC*	GC*	GC*	GC*	Yes*	Yes*	GC*	GC*	GC*	GC*	GC*
"residential solid waste containers must be stored within a fully enclosed space, which shall be attached to the principal structure."	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No
Does it comply with MN Statute for providing adequate recycling space?	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Yes	Yes	Yes	Yes	Yes	Yes	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Unable to determine
Other notes:																							

Detailed Enclosure Survey Results (Hennepin County - Minneapolis)

	MP L1	MP L2	MP L3	MP L4	MP L5	MP L6	MP L7	MP L8	MP L9	MP L10	MP L11	MP L12	MP L13	MP L14	MP L15	MP L16	MP L17	MP L18	MP L19	MP L20	MP L21	MP L22	MP L23	MP L24	MP L25	MP L26	MP L27	MP L28	MP L29	MP L30	MP L31	MP L32	MP L33
Year Building Built	1961	2007	1973	1969	1996	2009	1965	2003	1972	2005	1961	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003

MINNESOTA WASTE WISE FOUNDATION

# of Units	110	37	212	181	60	30	46	72	220	14	24	440	440	440	440	440	440	440	440	440	440	440	250	250	250	182	30	60	60	67	67	76	
Sq. Ft.	28,054	12,021		138,465	75,949	13,241	27,773	78,175	15,476	7,705	17,930															111,520		39,400	39,400	56,345	56,345	33,280	
County	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin
Is the garbage & recycling inside or outside of the building? If inside, check box and skip to Enclosure Characteristics Section.	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside

MINNESOTA
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face is the enclosure placed upon?							, Dir t	ete																				ete , Dir t								
What is the condition of the enclosure?	Fair - ned s to be repaired	N/A	Go od	Go od	Go od	Go od	Fair - ned s to be repaired	Go od	Go od	Go od	Go od	Go od	Go od	Go od	Go od	Go od	Go od	Go od	Go od	Go od	Go od	Go od	Go od	Go od	Go od	Go od	Fair - ned s to be repaired	Go od	Go od	Go od	Go od	Go od				
What material are the walls made out of?	Wood fence panels	No ne	Ma so nry walls	Wood fence panels	Ma so nry walls	Wood fence panels	No ne	Ma so nry walls	Wood fence panels	Wood fence panels	Ma so nry walls	Wood fence panels	Wood fence panels	Wood fence panels	No ne	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	No ne	Me tal fence	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels		
What material is the gate made out of?	Wood fence panels	No ne	No ne	Wood fence panels	No ne	Wood fence panels	No ne	Me tal panel	No ne	Wood fence panels	No ne	No ne	No ne	No ne	No ne	No ne	No ne	No ne	No ne	No ne	No ne	No ne	No ne	No ne	No ne	No ne	Me tal panel	Me tal panel	Me tal panel	No ne	Me tal panel	No ne	No ne	Wood fence panels	Wood fence panels	Wood fence panels

MINNESOTA WASTE WISE FOUNDATION

What kind of latch does the gate have on it?	Side latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Drop latch	None	Drop latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Drop latch	Drop latch	Drop latch	Doesn't have a latch	Drop latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Side latch	Side latch	Side latch
Is the gate in good working condition?	No	Not applicable	Not applicable	Yes	Not applicable	Yes	Not applicable	Yes	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Yes	Yes	Yes	Not applicable	Yes	Not applicable	Not applicable	Yes	Yes	Yes	
Is the red equestrian sign on the outside of the enclosure?	No	Not applicable	No	No	No	Not applicable	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	

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Is the garbage located next to and within five feet of the recycling?	Yes	Yes	No t applicabl e	Yes	Yes	No t applicabl e	Yes	Yes	Yes	Yes	Yes	Yes	No t applicabl e	No t applicabl e	Yes	No t applicabl e	No t applicabl e	No t applicabl e	No t applicabl e	No t applicabl e	No t applicabl e	Yes	Yes	Yes	Yes	Yes	Yes	No t applicabl e	No t applicabl e	Yes	Yes		
Is the read equate signage on the containers within the enclosure?	No	No	No	No	No	No	No	No	No	Yes	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No
Garbage Container Size	8 yd.	8 yd.	8 yd.	8 yd.	2 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	6 yd.	2 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	No t Applicabl e	2 yd.	2 yd.	2 yd.	

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Organic Container Size [Organic Container 1]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	64 gln.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Organic Container Size [Organic Container 2]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	64 gln.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		
If OTHER, note size here																																
Recycling Container 1	Mixed, 96 gln.	Mixed, 96 gln.	Not Applicable	Cardboard, 6 yd.	Mixed, 2 yd.	Not Applicable, No recycling.	Mixed, 2 yd.	Mixed, 4 yd.	Mixed, 96 gln., 5 96-g car.	Mixed, 4 yd.	Mixed, 96 gln.	Mixed, 4 yd.	Mixed, 4 yd.	Not Applicable, No rec.	Not Applicable, No rec.	Mixed, 96 gln., 7 96-g car.	Not Applicable, No rec.	Not Applicable, No rec.	Not Applicable, No rec.	Not Applicable, No rec.	Not Applicable, No rec.	Not Applicable, No rec.	Not Applicable, No rec.	Not Applicable, No rec.	Not Applicable, No rec.	Mixed, 96 gln., 12 total.	Mixed, 96 gln., 2 yd.	Mixed, 96 gln.	Mixed, 96 gln., 6 96-g car.	Not Applicable	Mixed, 2 yd.	Mixed, 96 gln.

MINNESOTA WASTE WISE FOUNDATION

						ng			ts total				ycli ng	ycli ng	ts total	ycli ng	ycli ng	ycli ng	ycli ng	ycli ng	ycli ng	ycli ng	ycli ng			96- g cars		ts total					
Re cyc lin g Co nta ine r 2	Mi xe d, 96 gln .	Mi xe d, 96 gln .	No t Ap plic abl e	Mi xe d, 96 gln ., 4 total 96- g cars total	Mi xe d, 96 gln ., 4 96- g total	No t Ap plic abl e	No t Ap plic abl e	No t Ap plic abl e	No t Ap plic abl e	No t Ap plic abl e	Mi xe d, 96 gln .	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	Mi xe d, 96 gln .	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	Mi xe d, 96 gln .	
Re cyc lin g Co nta ine r 3	No t Ap plic abl e	Mi xe d, 96 gln .	No t Ap plic abl e	No t Ap plic abl e	No t Ap plic abl e	No t Ap plic abl e	No t Ap plic abl e	No t Ap plic abl e	No t Ap plic abl e	No t Ap plic abl e	No t Ap plic abl e	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	Mi xe d, 96 gln .	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap pli ca ble	No t Ap plic abl e	
Ar e the GA RB AG E co nta ine rs ad eq uat ely siz ed for the nu mber of occ up ants in the bui ldi ng	No	Yes	Yes	No	No	Yes	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	No	No	No	No	No	No

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?																																		
Are the RECYCLING containers adequately sized for the number of occupants in the building?	No	No	Not Applicable*	No	No	Not Applicable*	No	No	No	Yes	No	Yes	Not Applicable*	Not Applicable*	No	Not Applicable*	Not Applicable*	Not Applicable*	Not Applicable*	Not Applicable*	Not Applicable*	Not Applicable*	Not Applicable*	Not Applicable*	No	No	No	No	No	No	No	Not Applicable*	No	No
Are the ORGANICS containers adequately sized?	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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for the number of occupants in the building?																																		
Is the enclosure adequately sized for the load?	Yes	Not applicable	Yes	Yes	Yes	Yes	Not applicable	Yes	No	No	No	Yes	Yes	Yes	Not applicable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Are all waste and recycling materials placed within the enclosure?	No	Not applicable	Yes	Yes	Yes	Yes	Not applicable	Yes	No	Yes	Yes	Yes	Yes	Yes	Not applicable	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes		

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If not, what is found outside of the enclosure?	Trash/recycling								Couch, box of wires									Small grill						Mattresses and furniture		Sofa, chair			Bags of trash, vacuum cleaner				
Are there any obvious smells or critter issues with the enclosures?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
If yes, what are the issues observed?																																	

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Are there any safety or security concerns with the enclosures?	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	Yes	No	
If yes, what are the issues observed?						Do & gate swing shut easily- no safety mechanism to keep in place																			Far walk down a ramp to get to the enclosure						Broken glass every where -- easy for tenants to throw bottles into enclosure from balco	No

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"Refruse, recycling storage, and compost containers shall be enclosed on all four (4) sides by screening compatible with the principal structure unless otherwise	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes
---	----	-----	-----	-----	-----	-----	-----	-----	----	----	----	-----	-----	-----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	----	-----	-----	-----

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What material are the walls made out of?	Wood fence panels, Masonry walls	Wood fence panels, Masonry walls	Wood fence panels	Wood fence panels
What material is the gate made out of?	None	None	None	None
What kind of latch does the gate have on it?	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch
Is the gate in good working condition?	Not applicable	Not applicable	Not applicable	Not applicable
Is there adequate signage on the outside of the enclosure?	No	No	No	No
Is the garbage located next to and within five feet of the recycling?	Yes	Yes	Yes	Yes
Is there adequate signage on the containers within the enclosure?	No	No	No	No
Garbage Container Size [Garbage Container 1]	4 yd.	6 yd.	6 yd.	6 yd.
Garbage Container Size [Garbage Container 2]	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Garbage Container Size [Garbage Container 3]	Not Applicable	Not Applicable	Not Applicable	Not Applicable
If OTHER, note size here				
Organics Container Size [Organics Container 1]	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Organics Container Size [Organics Container 2]	Not Applicable	Not Applicable	Not Applicable	Not Applicable
If OTHER, note size here				
Recycling Container 1	Mixed, 96 galn., 3 96-g carts total	Mixed, 96 galn., 3 96-g carts total	Mixed, 96 galn.	Mixed, 96 galn.
Recycling Container 2	Not Applicable	Not Applicable	Mixed, 96 galn.	Mixed, 96 galn.
Recycling Container 3	Not Applicable	Not Applicable	Mixed, 96 galn.	Mixed, 96 galn.
Are the GARBAGE containers adequately sized for the number of occupants in the building?	No	Yes	No	No
Are the RECYCLING containers adequately sized for the number of occupants in the building?	No	No	No	No

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Are the ORGANICS containers adequately sized for the number of occupants in the building?	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Is the enclosure adequately sized for the load?	No	No	No	No
Are all waste and recycling materials placed within the enclosure?	No	No	No	No
If not, what is found outside of the enclosure?	Mattresses	Sofa	Sofa	Tvs
Are there any obvious smell or critter issues with the enclosures?	No	No	No	No
If yes, what are the issues observed?				
Are there any safety or security concerns with the enclosures?	No	No	No	No
If yes, what are the issues observed?				
Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Yes	Yes	Yes	Yes
Notes for the above question				
Waste Hauler:	WM	WM	WM	WM
Waste Hauler Pick-up Frequency:				
Recycled Material Hauler:	WM	WM	WM	WM
Recycled Material Hauler Pick-up Frequency:				
Organics Hauler:				
Organics Hauler Pick-up Frequency:				
Is the enclosure in compliance with the enclosure ordinance?	GC*	GC*	Yes	Yes

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"Industrial, commercial, multi-family and institutional uses shall provide screening for their waste containers so as to screen the containers from sight from off the premises on which located."	No	No	Yes	Yes
Does it comply with MN Statute for providing adequate recycling space?	Unable to determine	Unable to determine	Unable to determine	Unable to determine
Other notes:	Pavement is sloped--carts and dumpster cannot fit inside	Pavement is sloped--carts and dumpster cannot fit inside	Difficult for tenants to access recycling carts over enclosure add-on	Difficult for tenants to access recycling carts over enclosure add-on

Detailed Enclosure Survey Results (Hennepin County – Plymouth)

	PLY1	PLY2	PLY3	PLY4	PLY5	PLY6	PLY7	PLY8
Year Building Built	1972	1972	1969	1969	1969	1968	1969	1969
# of Units	126	126	161	161	161	96	96	96
Sq. Ft.	117797	117797	128800	128800	128800	91200	86400	86400
County	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin	Hennepin
Is the garbage & recycling inside or outside of the building? If inside, check box and skip to Enclosure Characteristics Section.	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside
If inside, where?								
On what side of the building is the exterior enclosure placed?	East	West	West	East	East	North	West	North
Is the enclosure connected to the building?	No	No	No	No	No	No	No	Yes
How many feet from the building is the enclosure?	40	200	200	150	75	200-400	100	0
What is the height of the enclosure? (feet)	5	Na	8	Na	Na	Na	6	6

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What is the width of the enclosure? (feet)	18	Na	10	15	18	Na	12	12
What is the depth of the enclosure? (feet)	20	Na	16	8	18	Na	12	12
What kind of surface is the enclosure placed upon?	Pavement	Pavement	Concrete	Pavement	Concrete	Pavement, Grass, Dirt	Pavement	Concrete
What is the condition of the enclosure?	Good	N/A	Fair - needs to be repaired	Fair - needs to be repaired	Fair - needs to be repaired	N/A	Good	Good
What material are the walls made out of?	Chain link fence	None	Masonry walls	Chain link fence, Masonry walls	Wood fence panels, Masonry walls	None	Wood fence panels	Wood fence panels
What material is the gate made out of?	None	None	Wooden garage door	None	None	None	Chain link fence	Chain link fence
What kind of latch does the gate have on it?	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Drop latch	Drop latch
Is the gate in good working condition?	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Yes	Yes
Is there adequate signage on the outside of the enclosure?	No	Not applicable	No	No	No	Not applicable	No	No
Is the garbage located next to and within five feet of the recycling?	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Is there adequate signage on the containers within the enclosure?	No	No	No	No	No	Yes	No	No
Garbage Container Size [Garbage Container 1]	2 yd.	4 yd.	2 yd.	2 yd.	2 yd.	2 yd.	2 yd.	2 yd.
Garbage Container Size [Garbage Container 2]	2 yd.	4 yd.	2 yd.	2 yd.	2 yd.	6 yd.	Not Applicable	2 yd.
Garbage Container Size [Garbage Container 3]	2 yd.	Not Applicable	2 yd.	2 yd.	2 yd.	Not Applicable	Not Applicable	Not Applicable
If OTHER, note size here			5 2-yd dumpsters total					

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Organics Container Size [Organics Container 1]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Organics Container Size [Organics Container 2]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
If OTHER, note size here								
Recycling Container 1	Mixed, 96 gln., 4 96-g carts total	Mixed, 96 gln., 4 96-g carts total	Mixed, 2 yd.	Mixed, 2 yd.	Mixed, 2 yd.	Mixed, 96 gln., 4 96-g carts total	Mixed, 2 yd.	Mixed, 2 yd.
Recycling Container 2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Recycling Container 3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Are the GARBAGE containers adequately sized for the number of occupants in the building?	No	Yes	Yes	Yes	Yes	No	No	No
Are the RECYCLING containers adequately sized for the number of occupants in the building?	No	No	No	No	No	No	No	No
Are the ORGANICS containers adequately sized for the number of occupants in the building?	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Is the enclosure adequately sized for the load?	Yes	Not applicable	No	Yes	Yes	Not applicable	Yes	No
Are all waste and recycling materials placed within the enclosure?	Yes	Not applicable	No	Yes	Yes	Not applicable	No	Yes
If not, what is found outside of the enclosure?		Drum	Mattress				Yard waste	
Are there any obvious smell or critter issues with the enclosures?	No	No	No	No	No	No	No	No

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If yes, what are the issues observed?								
Are there any safety or security concerns with the enclosures?	No	No	No	No	No	No	No	No
If yes, what are the issues observed?								
Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Notes for the above question								
Waste Hauler:	Allied Waste	Republic	Randy's	Randy's	Randy's	Republic	Randy's	Randy's
Waste Hauler Pick-up Frequency:								
Recycled Material Hauler:	Republic	Republic	Randy's	Randy's	Randy's	Republic	Randy's	Randy's
Recycled Material Hauler Pick-up Frequency:								
Organics Hauler:								
Organics Hauler Pick-up Frequency:								
Is the enclosure in compliance with the enclosure ordinance?	No	No	No	No	No	No	No	No
"The owner of a multiple family dwelling must provide containers for the collection of designated recyclables and must maintain the containers in a clean and sanitary condition."	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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"The containers must be sufficient in number and size to meet the demands for recycling services created by the occupants."	No	No	No	No	No	No	No	No
" Containers must be placed in a location on the premises which permits access for collection purposes but which does not obstruct pedestrian or vehicular traffic"	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
"and must comply with the Zoning Ordinance."	Yes	No	Yes	Yes	Yes	No	Yes	Yes
" Except as otherwise provided, all multiple family dwellings and non-residential buildings having exterior trash receptacles shall provide an enclosed area in conformance with the following:"	Yes	No	Yes	Yes	Yes	No	Yes	Yes
"(a) Exterior wall treatment shall be similar and/or complement the principal building."	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes
" (b) For residential uses, the minimum setback* for an enclosed trash receptacle area shall be the same as the setback prescribed for accessory structures." *From side and rear lot lines in rear yard area: 6 ft.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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"(c) The trash enclosure shall be in an accessible location for servicing vehicles and shall not conflict with site circulation."	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
"(d) The trash receptacles shall be fully screened from view of adjacent properties and the public right-of-way."	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
"(f) Recycling space shall be provided as required by the Minnesota State Building Code."	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Does it comply with MN Statute for providing adequate recycling space?	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Other notes:			5 trash dumpsters inside of a garage, 1 recycling dumpster outside. Walls of garage are dirty/in rough shape. No clear signage--provides a large opportunity for confusion/cross-contamination.						

Detailed Enclosure Survey Results (Ramsey County - Maplewood)

	MPW1	MPW2	MPW3	MPW4	MPW5	MPW6	MPW7	MPW8	MPW9	MPW10	MPW11
Year Building Built	2000								1969		
# of Units	108	58	58	58	58	67	13	13	51	168	168
Sq. Ft.									38,981		
County	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey

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Is the garbage & recycling inside or outside of the building? If inside, check box and skip to Enclosure Characteristics Section.	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside
If inside, where?											
On what side of the building is the exterior enclosure placed?	South	North	North	North	North	East	North	South	East	North	East
Is the enclosure connected to the building?	No	No	No	No	No	No	No	No	No	No	No
How many feet from the building is the enclosure?	25	50	50	50	50	50	50	50	20-100	40	30
What is the height of the enclosure? (feet)	Na	12	12	12	12	6	10	10	6	10	10
What is the width of the enclosure? (feet)	Na	10	10	10	10	30	14	14	18	6	6
What is the depth of the enclosure? (feet)	Na	16	16	16	16	8	8	8	8	16	16
What kind of surface is the enclosure placed upon?	Pavement	Concrete, Grass, Dirt	Concrete	Concrete	Concrete	Pavement	Concrete	Concrete	Concrete	Concrete	Concrete
What is the condition of the enclosure?	N/A	Good	Good	Good	Fair - needs to be repaired	Good	Poor - needs to be replaced	Poor - needs to be replaced	Good	Fair - needs to be repaired	Poor - needs to be replaced

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What material are the walls made out of?	None	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Vinyl fence panels	Masonry walls	Masonry walls	Wood fence panels	Thin plywood garage wall	Thin plywood garage wall
What material is the gate made out of?	None	Wood fence panels	Wood fence panels	Wood fence panels	Wood fence panels	Vinyl fence panels	Wood fence panels	Wood fence panels	None	None	None
What kind of latch does the gate have on it?	None	Door handle	Door handle	Door handle	Door handle	Drop latch	Side latch	Side latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch
Is the gate in good working condition?	Not applicable	Yes	Yes	Yes	Yes	Yes	No	No	Not applicable	Not applicable	Not applicable
Is there adequate signage on the outside of the enclosure?	Not applicable	No	No	No	No	No	No	No	No	No	No
Is the garbage located next to and within five feet of the recycling?	Not applicable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Is there adequate signage on the containers within the enclosure?	No	No	No	No	No	No	No	No	No	No	No
Garbage Container Size [Garbage Container 1]	Not Applicable	3 yd.				6 yd.	4 yd.	4 yd.	4 yd.	2 yd.	2 yd.
Garbage Container Size [Garbage Container 2]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	6 yd.	Not Applicable	Not Applicable	4 yd.	2 yd.	2 yd.
Garbage Container Size [Garbage Container 3]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
If OTHER, note size here											

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Organics Container Size [Organics Container 1]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Organics Container Size [Organics Container 2]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
If OTHER, note size here											
Recycling Container 1	Cardboard, 2 yd.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Cardboard, 2 yd.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln., 5 96-g carts total	Mixed, 96 gln., 4 96-g carts total	Mixed, 96 gln., 4 96-g carts total
Recycling Container 2	Cardboard, 2 yd.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 96 gln., 5 96-g carts total	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Recycling Container 3	Cardboard, 2 yd.	Mixed, 96 gln.	Mixed, 96 gln.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Are the GARBAGE containers adequately sized for the number of occupants in the building?	No*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Are the RECYCLING containers adequately sized for the number of occupants in the building?	No*	No	No	No	No	No	No	No	No	No	No
Are the ORGANICS containers adequately sized for the number of occupants in the building?	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Is the enclosure adequately sized for the load?	Not applicable	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes

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Are all waste and recycling materials placed within the enclosure?	Not applicable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
If not, what is found outside of the enclosure?										AC unit		
Are there any obvious smell or critter issues with the enclosures?	No	No	No	No	No	No	Yes	Yes	No	No	No	Yes
If yes, what are the issues observed?							Strong smell of urine	Strong smell of urine				Smells like urine
Are there any safety or security concerns with the enclosures?	No	No	No	No	Yes	No	Yes	No	No	No	No	No
If yes, what are the issues observed?					Enclosure is filled with trash and old furniture-- dangerous to maneuver around to get to trash/recycling		Enclosure floor littered with trash, furniture, and appliances.					
Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Notes for the above question												
Waste Hauler:		WM	WM	WM	WM	Advanced Disposal	Republic	Republic	Allied Waste	Walter's	Walter's	
Waste Hauler Pick-up Frequency:												

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Recycled Material Hauler:	Tennis Sanitation	Tennis Sanitation	Tennis Sanitation	Tennis Sanitation	Tennis Sanitation	Tennis Sanitation	Tennis Sanitation	Tennis Sanitation	Tennis Sanitation	Tennis Sanitation	Tennis Sanitation
Recycled Material Hauler Pick-up Frequency:											
Organics Hauler:											
Organics Hauler Pick-up Frequency:											
Is the enclosure in compliance with the enclosure ordinance?	Yes?	Yes	Yes	Yes	No	Yes	No	No	Yes?	No	No
"Trash container enclosures shall be provided around all trash containers and shall be 100 percent opaque."	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
"They shall be protected by concrete-filled steel posts or the equivalent, anchored in the ground at the front corners of the structure. If the enclosure is masonry, the protective posts may be omitted."	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
"In all instances, the enclosure must be of a design, material and color compatible with the building and be kept in good repair."	N/A	Yes	Yes	Yes	No	Yes	No	No	Yes	No	No

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"A gate that provides 100-percent opaqueness shall be provided."	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
"The community design review board may waive any part of this requirement if it finds that the trash container would be hidden from adjacent properties and streets."	Maybe?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Maybe?	N/A	N/A
"The city requires all the owners and managers of multiple-family dwellings to provide recycling services to all their residents."	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Does it comply with MN Statute for providing adequate recycling space?	No	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Unable to determine	Yes	Unable to determine	Unable to determine
Other notes:	Dumpsters may usually be kept inside, since this is a senior living facility & only cardboard dumpsters were out.	Shopping carts and random clothing items on ground inside enclosure. Tennis left tags-- couldn't pick up recycling bc of trash contamination.	Shopping cart inside enclosure.	Shopping cart inside enclosure.	Enclosure is completely full of trash/household furniture-- impossible to move around and get to dumpster/carts. Two recycling carts have tags from Tennis-- could not collect bc of trash contamination.	Carts are outside of the enclosure. Cardboard found in trash dumpsters	Gate difficult to open. Enclosure filled with trash. Tennis did not collect recycling; left education tag.	Gate doesn't close. Trash littered inside enclosure.	Carts outside of enclosure. One enclosure for three buildings. Broken glass on the ground of enclosure.	Not much room to maneuver inside garage stall. Garage wall is dirty/burned/has holes. Does have a recycling sign up inside enclosure.	Wall is burned through. Needs to be repaired. Not much room to maneuver inside garage stall.	

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Detailed Enclosure Survey Results (Ramsey County - St. Paul)																							
	STP1	STP2	STP3	STP4	STP5	STP6	STP7	STP8	STP9	STP10	STP11	STP12	STP13	STP14	STP15	STP16	STP17	STP18	STP19	STP20	STP21	STP22	STP23
Year Building Built	1960	1926	1926	1922	1922	2001	2003	1918	1968	1961	1976	1976	1966	1966	1966					1987	1922	1963	2003
# of Units	25	40	25	41	59	50	25	50	20	90	100	100	59	59	59	151	151	60	60	71	25		
Sq. Ft.	13,600	13,545	18,768	19,980	19,980	46,302	60,192	12,597	27,540	27,928			27,780	27,780	27,780					118,100	40,784	20,904	152,315
County	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey
Is the garbage & recycling inside or outside of the building? If inside, check box and skip to Enclosure Characteristics Section.	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside
If inside, where?																							
On what side of the building is the exterior enclosure placed?	West	East	West	West	West	North	North	West	East	West	West	North	North	East	East	East	East	West	North	North	South	East	South

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Is the enclosure connected to the building?	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	Yes
How many feet from the building is the enclosure?	25	5-20	0	0	0	0	0	0	15	30	30	80	40	40	25	30	30	150	60	50	0	20-70	0	
What is the height of the enclosure? (feet)	6	Na	Na	Na	Na	Na	6	6	Na	Na	6	Na	8	8	8	6	6	Na	Na	Na	Na	Na	4	
What is the width of the enclosure? (feet)	8	Na	16	Na	4	Na	13	8	Na	Na	18	Na	8	8	8	16	16	Na	Na	Na	Na	Na	15	
What is the depth of the enclosure? (feet)	6	Na	4	Na	16	Na	7	40	Na	Na	14	Na	16	16	16	8	8	Na	Na	Na	Na	Na	15	
What kind of surface is the enclosure placed upon?	Pave ment, Dirt	Pave ment, Concr ete	Concr ete	Pave ment	Pave ment, Concr ete	Concr ete	Concr ete	Concr ete	Pave ment	Pave ment	Concr ete	Pave ment	Pave ment, Concr ete, Grass, Dirt	Pave ment, Concr ete	Pave ment, Concr ete	Concr ete	Concr ete	Pave ment, Concr ete	Pave ment, Concr ete	Pave ment	Concr ete	Pave ment, Grass, Dirt	Concr ete	
What is the condition of the enclosure?	Fair - needs to be repaired	N/A	Good	N/A	N/A	N/A	Fair - needs to be repaired	Good	N/A	N/A	Good	N/A	Fair - needs to be repaired	Fair - needs to be repaired	Good	Good	Good	N/A	N/A	N/A	N/A	N/A	Good	

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What material are the walls made out of?	Wood fence panels	None	Apt building wall	None	None	None	Wood fence panels	Wood fence panels	None	None	Wood fence panels	None	Garage walls	Garage walls	Garage walls	Masonry walls	Masonry walls	None	None	None	None	None	Masonry walls
What material is the gate made out of?	None	None	None	None	None	None	Wood fence panels	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
What kind of latch does the gate have on it?	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Side latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch
Is the gate in good working condition?	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Yes	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Is there adequate signage on the outside of the enclosure?	No	Not applicable	No	Not applicable	Not applicable	Not applicable	No	No	Not applicable	Not applicable	No	Not applicable	No	No	No	No	No	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	No
Is the garbage located next to and within five feet of the recycling?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	Not applicable	Yes	Yes	No

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Is there adequate signage on the containers within the enclosure?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No
Garbage Container Size [Garbage Container 1]	2 yd.	2 yd.	96 gln.	2 yd.	2 yd.	2 yd.	2 yd.	2 yd.	4 yd.	4 yd.	2 yd.	2 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	4 yd.	Not Applicable	4 yd.	2 yd.	2 yd.
Garbage Container Size [Garbage Container 2]	Not Applicable	2 yd.	96 gln.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	2 yd.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	4 yd.	4 yd.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Garbage Container Size [Garbage Container 3]	Not Applicable	Not Applicable	96 gln.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
If OTHER, note size here			4 96-g carts total																				
Organics Container Size [Organics Container 1]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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Organics Container Size [Organics Container 2]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
If OTHER, note size here						1-yd grease recycling																	
Recycling Container 1	Mixed, 96 gln., 6 96-g carts total	Mixed, 96 gln., 8 96-g carts total	Mixed, 96 gln., 4 96-g carts total	Mixed, 96 gln., 5 96-g carts total	Mixed, 96 gln., 5 96-g carts total	Mixed, 96 gln., 4 yd.	Mixed, 96 gln.	Mixed, 96 gln., 5 96-g carts total	Mixed, 96 gln., 4 96-g carts total	Mixed, 96 gln., 5 96-g carts total	Mixed, 96 gln., 7 96-g carts total	Mixed, 96 gln., 5 96-g carts total	Mixed, 96 gln., 4 96-g carts total	Mixed, 96 gln., 6 96-g carts total	Mixed, 96 gln., 3 96-g carts total	Mixed, 2 yd.	Mixed, 96 gln., 6 96-g carts total	Cardboard, Paper, 2 yd.	Cardboard, Paper, 2 yd.	Cardboard, Paper, 2 yd., 9 total paper and cardboard dumpsters within complex	Mixed, 96 gln., 6 96-g carts total	Mixed, 96 gln., 8 96-g carts total	Mixed, 96 gln., 8 total 96-g carts
Recycling Container 2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Mixed, 96 gln.	Mixed, 64 gln.	Not Applicable	Not Applicable	Not Applicable	Mixed, 96 gln.	Not Applicable	Not Applicable	Not Applicable	Mixed, 2 yd.	Not Applicable	Mixed, 96 gln., 6 96-g carts total	Cardboard, Paper, 2 yd.	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Recycling Container 3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Mixed, 96 gln.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Mixed, 96 gln., 10 96-g carts total	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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Are the GARBAGE containers adequately sized for the number of occupants in the building ?	No	No	No	No	No	No	No	No	No	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No*	Yes	No	No*
Are the RECYCLING containers adequately sized for the number of occupants in the building ?	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No*	Yes	Yes	No*	
Are the ORGANICS containers adequately sized for the number of occupants in the building ?	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Is the enclosure adequately sized for the load?	No	Not applicable	No	Not applicable	Not applicable	Not applicable	Yes	Yes	Not applicable	Not applicable	Yes	Not applicable	No	No	No	No	No	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	No	

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Are all waste and recycling materials placed within the enclosure?	No	Not applicable	Yes	Not applicable	Not applicable	Not applicable	Yes	Yes	Not applicable	Not applicable	No	Not applicable	Yes	No	No	Yes	No	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Yes
If not, what is found outside of the enclosure?	Cardboard				Cardboard box	Cardboard boxes, plastic gloves	Mattresses within enclosure		Furniture, cardboard boxes		House plants			Furniture (table)	Stroller, cardboard boxes		Armchair						
Are there any obvious smell or critter issues with the enclosures?	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
If yes, what are the issues observed?							Recycling cart filled with standing water and possible pet waste																

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Are there any safety or security concerns with the enclosures?	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No
If yes, what are the issues observed?												Lid to dumpster is heavy and difficult to open												
Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Notes for the above question			Carts pulled to curb for collection	Walte r's	Pulled out to alley line for collection most likely	Repub lic	Gene' s Disposal	Advan ced Disposal	Walte r's	Walte r's	Advan ced Disposal	Advan ced Disposal	Nitti	Nitti	Nitti	WM	WM	Walte r's	Walte r's		Walte r's	Aspen	Repub lic	
Waste Hauler:	Advan ced Disposal	R&M Sanitation	Gene' s	Walte r's	?	Repub lic	Gene' s Disposal	Advan ced Disposal	Walte r's	Walte r's	Advan ced Disposal	Advan ced Disposal	Nitti	Nitti	Nitti	WM	WM	Walte r's	Walte r's		Walte r's	Aspen	Repub lic	

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Waste Hauler Pick-up Frequency:																								
Recycled Material Hauler:	Eureka	Eureka	Eureka	Eureka	Eureka	Allied Waste	Eureka	Eureka	Eureka	Eureka	Eureka	Eureka	Eureka	Eureka	Eureka	Eureka	Eureka	Eureka	Eureka	Eureka	Eureka	Eureka	Eureka	Eureka
Recycled Material Hauler Pick-up Frequency:																								
Organic Hauler:						Sanimax																		
Organic Hauler Pick-up Frequency:																								
Is the enclosure in compliance with the enclosure ordinance?	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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<p>"Containers for storage of mixed municipal solid waste and/or yard waste, recyclables or compostable materials shall be kept in locations that do not create a nuisance and the locations shall be maintained in a manner acceptable to the department of public works."</p>	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<p>"In no case shall the containers be kept beyond the alley line or in front of the established building line as defined in the</p>	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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zoning code or on boulevards except on the day of collection."																							
Does it comply with MN Statute for providing adequate recycling space?	Yes	No	Yes	No	Yes	No	No	Yes	No	No	Unable to determine	No	Yes	Yes	Yes	Unable to determine	Unable to determine	No	No	No	No	No	No
Other notes:							Recycling cart & enclosure in bad shape		Overflowing carts, material piled up outside of containers					Enclosure overflowing with junk, not well kept	Enclosure overflowing with junk, not well kept	Dumpsters barely fit-- enclosure needs to be enlarged				All trash and recycling may be kept inside at all times-- recycling could just be placed outside today for collection.		Trash and recycling shared between 3 buildings (see photos)	All trash and recycling may be kept inside garage at all times-- recycling could just be placed outside today for collection.

Detailed Enclosure Survey Results (Washington County - Forest Lake)											
	FRL1	FRL2	FRL3	FRL4	FRL5	FRL6	FRL7	FRL8	FRL9	FRL10	FRL11
Year Building Built	1969	1969	2010	1987	1999	1971	2002	2002	1971	1992	1984

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# of Units	60	17	120	15	18	252	32	32	20	48	51
Sq. Ft.		9,912	73,866	14,560	57,086	23,868	104,832	104,832	19,840	168,445	
County	Washington	Washington	Washington	Washington	Washington	Washington	Washington	Washington	Washington	Washington	Washington
Is the garbage & recycling inside or outside of the building? If inside, check box and skip to Enclosure Characteristics Section.	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside	Outside
If inside, where?											
On what side of the building is the exterior enclosure placed?	North	North	West	East	North	East	South	East	East	South	North
Is the enclosure connected to the building?	No	No	No	No	No	No	No	No	No	No	No
How many feet from the building is the enclosure?	30-200	25	5-100	15	250	250	30	50	50	65	150
What is the height of the enclosure? (feet)	6	Na	6	Na	6	5	Na	6	Na	7	Na
What is the width of the enclosure? (feet)	20	10	12	8	6	10	Na	10	6	30	18
What is the depth of the enclosure? (feet)	9	6	15	7	6	10	Na	15	8	8	16
What kind of surface is the enclosure placed upon?	Concrete	Pavement	Concrete	Grass, Dirt, Wood plank	Concrete	Pavement, Concrete	Pavement, Concrete	Pavement, Concrete	Pavement, Concrete	Concrete	Pavement
What is the condition of the enclosure?	Good	N/A	Good	N/A	Good	Good	N/A	Good	Fair - needs to be repaired	Good	N/A

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What material are the walls made out of?	Wood fence panels	None	Masonry walls	None	Wood fence panels	Wood fence panels	None	Chain link fence	None	Masonry walls	None
What material is the gate made out of?	None	None	Wood fence panels	None	None	None	None	None	None	None	None
What kind of latch does the gate have on it?	Doesn't have a latch	Doesn't have a latch	Drop latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch	Doesn't have a latch
Is the gate in good working condition?	Not applicable	Not applicable	Yes	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Is there adequate signage on the outside of the enclosure?	No	Not applicable	No	Not applicable	No	No	Not applicable	No	No	No	Not applicable
Is the garbage located next to and within five feet of the recycling?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Is there adequate signage on the containers within the enclosure?	No	No	No	No	No	No	No	No	No	No	No
Garbage Container Size [Garbage Container 1]	4 yd.	4 yd.	6 yd.	2 yd.	4 yd.	6 yd.	2 yd.	4 yd.	2 yd.	4 yd.	6 yd.
Garbage Container Size [Garbage Container 2]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	4 yd.	Not Applicable
Garbage Container Size [Garbage Container 3]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
If OTHER, note size here											

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Organics Container Size [Organics Container 1]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Organics Container Size [Organics Container 2]	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
If OTHER, note size here											
Recycling Container 1	Mixed, 4 yd.	Mixed, 2 yd.	Mixed, 6 yd.	Mixed, 96 gln.	Mixed, 2 yd.	Mixed, 2 yd.	Mixed, 96 gln.	Mixed, 96 gln.	Mixed, 2 yd.	Mixed, 2 yd.	Mixed, 2 yd.
Recycling Container 2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Mixed, 96 gln.	Mixed, 96 gln.	Not Applicable	Not Applicable	Not Applicable
Recycling Container 3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Mixed, 96 gln.	Mixed, 96 gln.	Not Applicable	Not Applicable	Not Applicable
Total cubic yards	8	6	12	2.5	6	8	3.5	5.5	4	10	8
Recommended Container Capacity (cubic yards)	15	4.25	30	3.75	4.5	63	8	8	5	12	12.75
Are the GARBAGE containers adequately sized for the number of occupants in the building?	No	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes
Are the RECYCLING containers adequately sized for the number of occupants in the building?	No	No	No	No	No	No	No	No	No	No	No
Are the ORGANICS containers adequately sized for the number of occupants in the building?	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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Is the enclosure adequately sized for the load?	Yes	Not applicable	No	Not applicable	No	No	Not applicable	Yes	No	Yes	Not applicable
Are all waste and recycling materials placed within the enclosure?	Yes	Not applicable	Yes	Not applicable	No	No	Not applicable	Yes	No	Yes	Not applicable
If not, what is found outside of the enclosure?	Cardboard outside dumpster within enclosure		Car seat inside ground of enclosure		Bicycle	TV			Closet doors		
Are there any obvious smell or critter issues with the enclosures?	No	No	No	No	No	No	No	No	No	No	No
If yes, what are the issues observed?											
Are there any safety or security concerns with the enclosures?	No	No	No	No	No	No	No	No	Yes	No	Yes
If yes, what are the issues observed?									Trash dumpster lid extremely heavy and difficult to open		Broken glass in enclosure
Is there adequate space available for hauler trucks to maneuver within and outside of the enclosure?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Notes for the above question											
Waste Hauler:	Walter's	Walter's	Walter's	Ace Solid Waste Inc.	Walter's	Walter's	Forest Lake Sanitation	Forest Lake Sanitation	Walter's	Forest Lake Sanitation	Walter's
Waste Hauler Pick-up Frequency:											

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Recycled Material Hauler:	Walter's	Walter's	Walter's	Ace Solid Waste Inc.	Walter's	Walter's	Forest Lake Sanitation	Forest Lake Sanitation	Walter's	Forest Lake Sanitation	Walter's
Recycled Material Hauler Pick-up Frequency:											
Organics Hauler:											
Organics Hauler Pick-up Frequency:											
Is the enclosure in compliance with the enclosure ordinance?	No	No	Yes	No	No	No	No	No	No	No	No
"Shall be no larger than 400 square feet unless approved by the city."	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
"Shall be built to maintain the color and style of the principal buildings."	Yes	N/A	Yes	N/A	Yes	Yes	N/A	No	N/A	Yes	N/A
"The structure shall contain either a swinging door or roll up door to contain debris."	No	No	Yes	No	No	No	No	No	No	No	No
"Shall meet the required setbacks of the underlying zoning district."											
"The structure shall not contain any vehicle storage unless approved by the city."	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Does it comply with MN Statute for providing adequate recycling space?	Unable to determine	Yes	No	Yes	No	Yes	No	No	No	No	Unable to determine
Other notes:		Recyclables (cardboard, cans, bottles) found in trash dumpster	Not much room to maneuver inside enclosure to access recycling. Recycling dumpster overflowing with material	Recyclables (cardboard, cans, bottles) inside trash dumpster. 1 recycling cart has sub-par signage	Recycling dumpster overflowing	Both dumpsters are outside of the enclosure--needs to be expanded. Recycling dumpster overflowing	Extremely confusing signage on recycling carts-- used to be single stream, now mixed, but original labels not removed.	Extremely confusing signage on recycling carts-- used to be single stream, now mixed, but original labels not removed. Sofas in trash dumpster.	Half of enclosure houses bike racks. Needs to be expanded to fit both dumpsters.		Cardboard in trash dumpster.

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