



2023

SSROC
Household Kerbside Bulky Waste Audit
REGIONAL REPORT



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EXECUTIVE SUMMARY

Audit details

- This audit included kerbside bulky waste piles (i.e. clean-up collections) from 1,306 households, comprising 651 single dwellings (SUDs) and the shared clean-up piles of 655 households from 47 multi-unit dwellings (MUDs).
- In total, 698 individual piles were assessed by weight and volume over two months for six councils in November–and December 2022, and a further two councils in March and May 2023.
- The audit method included a physical measure of overall pile size by volume, as well as the volume and weight of individual items. Larger items (for example, white goods and furniture) were also counted.
- The total volume of clean-up piles placed outside households was 1,438,643 litres (1,439m³) and the subsequent overall audited volume was 932,726 litres (932.7 m³). The total weight audited was 101.6 tonnes which is 22 tonnes lower than the 2014 audit.
- The total weight and volume of the clean-up piles audited (excluding air space) were higher in 2014, particularly at MUDs. This result was expected, particularly taking into account the larger sampling size in 2014.

Average volume

- The average size of clean-up piles for both housing types was 2.06 m³ per household. This is 60% higher than the 2014 pile size of 0.81 m³.
- SUDs averaged 2.06 m³ and MUD blocks 1.72 m³.
- The average volume of actual items within the pile (excluding air space) is 1,336 litres or 1.3 m³, averaging 1,279 litres for SUDs and 2,134 litres for MUD blocks. This is also equivalent to 1,279 litres per household at SUDs and 153 litres per household for MUDs.
- The average volume of items presented in the clean-up piles in 2023 is twice the amount generated in the 2014 audit, i.e. 1,336 litres in 2023 and only 715 litres in 2014 even though the 2014 audit was a larger sample. This reflects the trend of increasing waste generation in clean-up piles.
- Volume per household ranged from 383 to 2,104 litres for SUDs and 37 to 532 litres for MUDs.

Average weight

- The average clean-up pile weighed 146 kg in 2023, which is twice the weight recorded in the 2014 audit at 74 kg.
- SUDs averaged 144 kg and MUD blocks averaged 172 kg per pile. The 2023 weights were approximately double those recorded in the 2014 audit, i.e. 71 kg and 93 kg, respectively.
- The average clean-up weight per household is 144 kg for SUDs and 12 kg for MUDs in 2023, which is also twice as much as the 2014 audit (SUDs: 71.4 kg; MUDs: 6.8 kg). Overall, the average weight per household increased by almost three-fold in 2023 compared to the 2014 level, i.e., from 27 kg to 78 kg. The weight per household ranged from 60 kg to 242 kg for SUDs and from 4 kg to 43 kg for MUDs.

Unaccepted material

- **By weight:** The overall unaccepted material presented in the clean-up piles was 12.6%, ranging from 6.3% to 27.5%.
- SUDs and MUDs presented comparable amounts of unaccepted material at 13.3% and 13.0%, respectively, by weight.
- **By volume:** The overall unaccepted material was 10.6% of the clean-up, ranging from 2.6% to 22.8%.
- MUDs presented a higher amount of unaccepted materials at 14.1% when compared with SUDs at 10.4%, by volume.
- Bagged household waste, garden organics (larger than 100 mm) and treated timber were the three most unaccepted materials found in the 2023 audit. In the 2014 audit, general waste (equivalent to bagged garbage in the current audit) was also the most common unaccepted material presented aside from rubble, treated timber, garden organics and e-waste.
- More unaccepted materials were recorded in the 2023 audit when compared with the 2014 audit.

Composition

Overall composition

- The largest component of clean-up waste was furniture: 28.8% by weight and 36.3% by volume of all material presented. Furniture decreased by 1.3% (by weight) and increased by 3% (by volume) when compared with the 2014 audit.
- **By weight:** The largest component was furniture (28.8%), followed by wood (12.2%), plastic (6.7%), metal (6.4%), white goods and electrical (5.4%) and e-waste (5.3%). The remaining materials have proportions of less than 5%.
 - About 58% of the waste in 2023 is recyclable or potentially reusable, which is higher than in 2014 (34%).
 - Problematic waste including e-waste, fuels/solvents/chemicals, gas bottles, fluorescent lights, paint and tyres represents 6%, which is lower than in the 2014 audit (8.5%).
 - Building waste also decreased in 2023 to 2% compared with 11% in 2014.
 - The remainder of the clean-up waste (34%) is suitable only for landfill, which is lower than the previous audit of 47%.
 - Garden organics recorded a significant decrease of 8.2% or two-thirds of the 2014 level.
 - The proportion of wood, e-waste, other waste, mattresses, building waste, glass, hazardous materials and recycling also decreased in 2023, while plastics, metal, white goods and electrical, paper and cardboard, textiles, general waste, bric-a-brac, toys and bikes, carpet, rug and underlay, commercial waste, overweight and oversized materials increased during the 2014 to 2023 period.
- **By volume:** The largest contributor was furniture (36.3%), followed by wood and mattresses (both at 7.7%), plastics (7.1%) and paper and cardboard (6.4%). The remaining materials had proportions of less than 5%.
 - Approximately 57% of the volume of waste is either recyclable or reusable, which is higher than the 2014 audit (35%).
 - Problematic waste is comparable in the 2014 and 2023 audits, at 4% and 3% by volume, respectively.
 - Building waste accounted for 1% in 2023, which is significantly lower than in 2014 (6%).

- The remaining materials (39%) in the 2023 clean-up piles were suitable for landfill disposal only, which is lower than in the 2014 audit (55%).
- Garden organics also decreased significantly in 2023 (8.5%, by volume). Mattresses also decreased by 2.4%.
- Wood, plastic, e-waste, other waste, building waste, glass, hazardous materials and recycling also decreased by volume in 2023, while metal, white goods and electrical, paper and cardboard, textiles, general waste, bric-a-brac, toys and bikes, commercial waste, overweight and oversized materials recorded increases, in varying degrees, from the 2014 level. Carpet, rug and underlay remained the same in both audits at 2.1%.
- **By count:** The most common materials presented were wooden furniture (24.7%), followed by composite furniture (19.7%), metal furniture (7.9%), small household appliances (7.1%), mattresses, plastic furniture and sofas, sofa beds and lounge chairs (all at 5.0%). The remaining materials had proportions of less than 5%. Note that the categorisation of items by count is more detailed to show the prevalent material composition and function for potential reuse and recycling.

Composition – SUDs

- **By weight:** The largest contributor was furniture at 28.0%, followed by wood (12.8%), plastic (7.0%), scrap metal (6.6%), and white goods and electrical (5.4%). The remaining materials had proportions of less than 5%.
- **By volume:** Furniture was 35.8% of clean-up waste volume. The next largest category was wood, (8.0%), mattresses (7.7%), plastic (7.3%), paper and cardboard (5.9%), scrap metal (5.1%) and other materials (5.0%). The remaining materials had proportions of less than 5%.
- **By count:** Wooden furniture made up 24.5% of the clean-up pile based on number of items, followed by composite furniture (20.3%), metal furniture (7.8%), small household appliances (6.9%), plastic furniture (5.4%) and mattresses (5.0%). The remaining materials have proportions of less than 5%.

Composition – MUDs

- **By weight:** Furniture made up 38.3% of clean-up waste. The next largest components were e-waste (10.5%), paper and cardboard (7.2%), bric-a-brac, toys and bikes (6.5%), wood (5.9%), and white goods and electrical (5.1%). The remaining materials had proportions of less than 5%.
- **By volume:** Furniture made up 40.5% of the clean-up pile, followed by paper and cardboard at 10.1%, mattresses at 7.1%, plastics at 5.5% and e-waste at 5.2%. The remaining materials were less than 5% in composition.
- **By count:** The largest contributor by number of items was wooden furniture at 25.8%, followed by composite furniture (14.6%), metal furniture and small household appliances (both at 8.8%), fan/heater (8.1%), sofas, sofa beds and lounge chairs (7.1%), computer/TVs and mattresses (both at 5.4%). The remaining materials had proportions of less than 5%.

Problematic materials

- Problematic wastes – specifically e-waste, paint, fuels/solvents/chemicals, tyres, gas bottles and fluorescent lights is as follows:
 - 5.6% by weight, 5.2% at SUDs and 11.2% at MUDs
 - 3.0% by volume, 2.7% at SUDs and 5.2% at MUDs

Size by service type

- Booked clean-ups generated 2,531 litres, which was significantly larger than scheduled services at 882 litres.

Potential for landfill diversion

- **Currently recovered:** Currently, 9% of clean-up waste is diverted by the SSROC councils audited, which is lower than the 2014 audit at 16%. Diverted material included mattresses, garden organics, metals, white goods and e-waste. The decrease can be attributed to an increase by weight of materials presented that are currently not recovered via bulky waste kerbside collections. Current diversion at both MUDs and SUDs is also 9%, with the same pattern observed; that is, a decreasing actual diversion by 6.4% and 4.6%, respectively.
- **Potential recovery:** Potential landfill diversion increased by 20.8% in 2023 compared with the 2014 level – from 43.3% in 2014 to 64.1% in 2023. In 2023, 49% could be recovered (33% potentially via reuse and 16% via recycling), which is higher than the 2014 audit of 22% (13% potentially reusable and 9% potentially recyclable). Problematic and hazardous waste (6%) can also be recovered through alternative pathways, including e-waste, fuels/solvents/chemicals, gas bottles, fluorescent lights, paint and tyres. Theoretically, a total of 55% of clean-up waste could be potentially diverted from landfill if households utilised other recovery channels for reusable items and council services for problematic and hazardous waste.
- Overall, reusable furniture presented the largest landfill diversion opportunity, at 24%, followed by 12% for wood and 4% each for textiles, e-waste and recyclable paper and cardboard.
- Paper, cardboard and garden organics continued to be presented in the clean-up piles, even though most councils reject these materials because they are accepted through the domestic kerbside collection service.

Confidence intervals

- The weight-based 90% confidence interval for these audits is ± 13 kg per clean-up, a confidence interval which is 8% the size of the overall measure.
- In terms of volume, the 90% confidence interval is ± 89 litres, which is 6% the size of the overall measure.
- These confidence intervals indicate an acceptably accurate result.

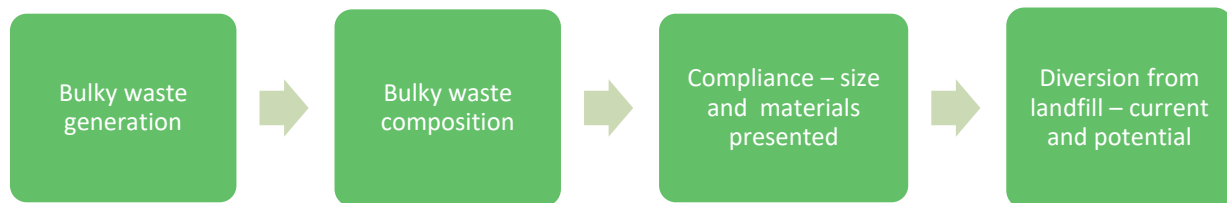


Image 1: Example of a bulky waste pile

1. INTRODUCTION

The Southern Sydney Regional Organisation of Councils (SSROC) first engaged A.Prince Consulting (APC) in 2014 to conduct a regional waste audit of bulky waste materials ('clean-up collections') presented at the kerbside by residents of 11 member councils. In 2022, SSROC again engaged APC (renamed APC Waste Consultants in January 2023) to follow a similar method to record the composition and generation of clean-up piles presented for collection by weight, volume, and in some cases by count, for eight (8) member councils.

The audit was conducted in two stages with the first six councils audited in November–December 2022 and the last two audits undertaken in March 2023 and May 2023. Over the course of the audit, 698 clean-up piles were assessed representing a total of 1,306 households. An almost equal number of households from SUDs (651) and MUDs (655) were assessed as part of this process. The results of this audit will assist SSROC and participating councils to assess the performance of the bulky waste clean-ups provided by councils in the region using the following indicators:



This report contains the results of the bulky waste audits undertaken by APC. It presents recommendations and actions to assist SSROC to improve the waste service provision for member councils and provides factual data to inform future public-policy decisions in the management of bulky waste within the SSROC's jurisdiction.



Image 2: Non-compliant clean-up pile based on size

2. SITUATION ANALYSIS

2.1 Service details

The services provided by the SSROC councils vary. Table 1 shows details of the clean-up services offered to both SUDs and MUDs by each participating council at the time of auditing.

Table 1: Clean-up collection service details

Council	Clean-up pile collection type	Number allowed	Pile size limit *	Separate collections	Other collections offered
Council 1	Scheduled	2 per year	3 m ³	Mattresses General household items Garden organics Metals and white goods	Chemical and e-waste drop-off events. CRC, HomeCycle
Council 2	Booked by resident	Up to 52 per year	1 m ³ – SUDs 4 m ³ – MUDs	Mattresses Furniture and bulky household items Metals, white goods and electronics	E-waste, clothes/textiles, toys and hazardous waste (except chemicals) collection
Council 3	Booked by resident	2 per year	3 m ³	Mattresses	Chemical and e-waste drop-off
	Some suburbs are scheduled	2 per year	3 m ³		Chemical and e-waste drop-off
Council 4	Booked by resident	2 per year	3 m ³	Bulky household and furniture Branches Metals and white goods Mattresses	Chemical and e-waste drop-off
Council 5	Scheduled and pre-booked	6 per year (1 scheduled and 5 pre-booked)	Not specified	Mattresses	Chemical, e-waste, clothing, white goods, metal polystyrene, batteries, plastic (soft and hard) drop-off
Council 6	Booked by resident	2 per year for SUDs 4 per year for MUDs 6 per year for MUDs > than 50 units	3 m ³		Chemical and e-waste collection and drop-off

Council	Clean-up pile collection type	Number allowed	Pile size limit *	Separate collections	Other collections offered
Council 7	Scheduled	1 per year	1.5 m ³		Mobile phone, battery, e-waste, mattress, white goods, garden organics drop-off;
	Booked by resident	1 per year			
Council 8	Booked by resident	2 per year	3 m ³	General household waste Garden organics Metals Mattresses	Chemical and e-waste drop-off during clean-out events

*Each clean-up pile from SUDs is considered per household while each pile from MUDs is considered per building.

2.2 Materials accepted

Councils vary in the items they will accept in clean-up collections. All councils accepted furniture, but none accepted asbestos, gas bottles, chemicals, fuels, solvents, tyres, batteries, food waste or car parts. White goods, e-waste, garden organics, mattresses and timber were the main categories where differences occurred between the councils for accepted items. In the main, the differences result from the way in which items are recovered from clean-up collections, e.g. some are recovered via targeted collections or drop-offs. While other materials may not be accepted by contracted waste facilities where the clean-up material was sent. Table 2 shows the different acceptance criteria for these materials. Refer to Appendix B for all material definitions.

Table 2: Materials accepted in the clean-up

Council	White goods	E-waste (computers/TVs)	Garden organics	Mattresses	Timber (treated and untreated)	General waste *
Council 1	✓	✓	✓	✓	X	X
Council 2	✓	✓	✓	✓	X	X
Council 3	✓	✓	✓	✓	X	X
Council 4	✓	✓	✓	✓	X	X
Council 5	✓	✓	✓	✓	X	X
Council 6	✓	✓	✓	✓	X	X
Council 7	✓	X	X	✓	X	X
Council 8	✓	X	✓	✓	✓	X

* There was some ambiguity in the interpretation by councils of the category 'general waste', which in the definitions is referred to as 'bagged waste and other waste that does not fit any other category'.



Image 3: Clean-up pile with bagged material and e-waste

2.3 Materials recycled from clean-up piles

Table 3 below shows which materials are theoretically recovered and recycled from the clean-up pile. This covers only the materials placed kerbside as part of the clean-up collection service. Councils may have other recycling options available for residents, such as separate drop-off days (as shown in Table 1).

Table 3: Materials recycled from the clean-up

Council	White goods	E-waste (computers/TVs)	Garden organics	Mattresses	Metals (steel)
Council 1					
Council 2					
Council 3					
Council 4					
Council 5			X		
Council 6					
Council 7					
Council 8					

	Material is collected directly from the clean-up pile (separately to the remainder of the clean-up) and delivered to a recycling facility by the council or contractor.
	The whole clean-up is delivered to a waste facility by the council or contractor and the waste facility then separates these materials for recycling.
	These materials are not collected if residents present them for clean-up. They are marked with a sticker and the resident is instructed to recycle them via the council recycling services provided.
X	Collected as part of the clean-up but not recycled.

3. METHOD

3.1 Project plan and project inception meeting

Following appointment, APC's project manager attended a project inception meeting with SSROC to discuss all operational aspects of the project. This meeting confirmed project requirements, logistics and timeline. The activities are based on the overall project plan submitted to SSROC.

3.2 Staff inductions

APC undertakes quality, health, safety and environment (QHSE) inductions for each project.

3.3 Progress reporting

APC provided progress reports to SSROC throughout the project.

3.4 Overall project schedule and sample size

An overall project schedule was developed with a target sample size of 150 to 200 samples per council, subject to the type of service, pile size and complexity of materials presented. Audits commenced from 14 November 2022 to 9 December 2022 and resumed in late February and May of 2023, respectively. Table 4 shows that a total of 1,307 households/units were sampled. A total of 698 clean-up piles was audited, with 651 piles from SUDs and 47 piles from MUDs (combined waste from 655 units).

Table 4: Sample size achieved by date, suburb and housing type

Council	Piles assessed			Households assessed		
	SUD	MUD	Total	SUD	MUD	Total
Council 1	71	5	76	71	93	164
Council 2	28	10	38	28	180	208
Council 3	95	5	100	95	72	167
Council 4	82	6	88	82	79	161
Council 5	65	8	73	65	73	138
Council 6	100	7	107	100	53	153
Council 7	57	5	62	57	86	143
Council 8	153	1	154	153	19	172
Total	651	47	698	651	655	1,306

3.5 Sample selection

Each council provided APC with a list of pre-booked clean-up collection day and/or areas where scheduled services were due to occur. Discrete areas were allocated to APC within the suburbs to ensure audit staff remained ahead of the collection vehicle. Council approved the areas as being representative of the LGA. The streets for sampling within the zones were randomly selected.

3.6 Field assessment

APC used two audit staff to ensure accuracy: a supervisor responsible for overseeing the data collection and an assistant to take measurements. All staff were fully briefed on methodology, customer service, confidentiality and privacy issues. APC staff photographed all clean-up piles for visual reference.

3.6.1 Material classifications

All waste was classified into 62 categories and consolidated into fewer categories to simplify the analysis. Appendix A shows a copy of the data-recording sheet. Appendix D presents how the materials/items have been classified for consolidation in this report.

The materials/items were further classified into subcategories to determine household behaviours in managing bulky waste and the potential for further diversion of waste from landfill. A summary of the aggregated definitions is provided in Figure 1 below.

Figure 1: Kerbside bulky waste – consolidated material categories

Reusable	<ul style="list-style-type: none"> Anything that could be reasonably reused by the householder (not including persons with disability) in its current form, excluding white goods which may need to be tested further to determine if still functional if fixed
Recyclable	<ul style="list-style-type: none"> Items that could be recycled in the yellow bin or by council if separated from the mixed pile
Landfill	<ul style="list-style-type: none"> Anything not reusable or recyclable, i.e. the only current possible destination is landfill
Problem/hazardous	<ul style="list-style-type: none"> Items which by their nature may cause issues with alternative processing, some of which should go to a special collection by council if provided or made available
Building	<ul style="list-style-type: none"> Generated from building activity

Table 5 shows each item assessed at the kerbside and its potential classifications. Some materials/items may fall into multiple categories depending on their condition.

Table 5: Kerbside bulky waste audits: detailed categories and classifications

Material/item	Consolidated categories				
	Reusable	Recyclable	General landfill	Problem/hazardous	Building
Bagged household waste	X	X	✓	X	X
Loose household waste	X	X	✓	X	X
Asbestos	X	X	X	✓	X
Batteries – car	X	X	X	✓	X
Bike/exercise bike	✓	✓	X	X	X
Bric-a-brac	✓	X	✓	X	X
Barbecue	✓	✓	X	X	X
Cardboard	X	✓	X	X	X
Carpet – mat, rugs, underlay <1.5 m	✓	X	✓	X	X
Commingled recyclable containers	X	✓	X	X	X
Composite mostly plastic	✓	X	✓	X	X
Composite other	✓	X	✓	X	X
E-waste: computer/TVs	X	X	X	✓	X
E-waste: microwave	X	X	X	✓	X
E-waste: fan/heater	X	X	X	✓	X
E-waste: vacuum cleaner	X	X	X	✓	X
E-waste: small household appliances	X	X	X	✓	X
E-waste: other – tools/garden with cord/battery	X	X	X	✓	X
Furniture: wooden	✓	X	✓	X	X

Material/item	Consolidated categories				
	Reusable	Recyclable	General landfill	Problem/hazardous	Building
Furniture: plastic	✓	X	✓	X	X
Furniture: metal	✓	✓	X	X	X
Furniture: composite	✓	✓	X	X	X
Children's car seat/booster	✓	X	✓	X	X
Fuels/solvents/chemicals	X	X	X	✓	X
Gas bottles/extinguishers	X	X	X	✓	X
Glass – other	✓	X	✓	X	✓
Garden organics (excluding tree branches <100 mm diameter)	X	✓	X	X	X
Garden organics: tree branches >100 mm diameter	X	✓	X	X	X
Insulation	X	X	X	X	✓
Lights – fluoro	X	X	X	✓	X
Lights – fittings/lamps	✓	X	✓	X	X
Luggage	✓	X	✓	X	X
Mattresses	✓	✓	✓	X	X
Motor oil	X	X	X	✓	X
Paint	X	X	X	✓	X
Paper/magazines/books	✓	✓	✓	X	X
Plastic other	✓	✓	✓	X	X
Pram/stroller	✓	X	✓	X	X
Polystyrene	X	X	✓	X	X
PVC pipe, etc.	✓	X	✓	X	X
Rubble	X	X	X	X	✓
Rubber and foam	✓	X	✓	X	X
Scrap metal	X	✓	X	X	X
Scrap metal – car parts	X	✓	X	X	X
Smoke detectors	X	X	X	✓	X
Sofas, sofa beds, lounge chairs	✓	X	✓	X	X
Sporting/camping equipment	✓	X	✓	X	X
Textiles: clothes	✓	X	✓	X	X
Textiles: household furnishings	✓	X	✓	X	X
Toys, mainly plastic	✓	X	✓	X	X
Toys other	✓	X	✓	X	X
Tyres	X	X	X	✓	X
White goods: air conditioner	X	✓	X	X	X
White goods: fridge/freezer	X	✓	X	X	X
White goods: dishwasher	X	✓	X	X	X
White goods: washing machine/dryer	X	✓	X	X	X
Wood/timber treated	✓	X	✓	X	✓
Wood/timber untreated	✓	✓	✓	X	✓
Other (specify), commercial waste (specify)	✓	✓	✓	✓	✓
Overweight items (>50 kg)	✓	✓	✓	✓	✓
Oversize items (>2 m)	✓	✓	✓	✓	✓

3.6.2 Volume

The team physically measured the clean-up piles to ascertain whether residents were adhering to stipulated size limits. Individual materials/items presented were also assessed using a tape measure. Assessments of anticipated volumes of materials/items likely to compact during collection were made based on best available information and assessment.

3.6.3 Weight

This audit used a combination of on-site weighing and standard weights from the APC reference library for the 60 most commonly found materials/items in clean-ups. All non-standard materials/items were weighed. APC used calibrated Wedderburn electronic scales capable of measuring either up to 30 kilograms or up to 150 kilograms. Accurate weighing of materials/items requires scales to be placed on a level surface. Where weighing was required, the specific materials/items were weighed then restacked on the clean-up pile.

3.6.4 Count

The team counted and recorded the number of the following materials/items. A more detailed categorisation is provided for some items such as furniture, e-waste and white goods to determine the prevalent material composition and function for potential reuse and recycling.

- Batteries – car
- Bike/exercise bikes
- Barbecues
- E-waste
- Furniture
- Children’s car seat/booster
- Fuels/solvents/chemicals
- Gas bottles/extinguishers
- Lights – fluorescent
- Mattresses
- Paint
- Smoke detectors
- Sofas, sofa beds, lounge chairs
- White goods
- Tyres
- Overweight items
- Oversize items.

3.6.5 Data analysis and verification

APC’s data analyst performed the data analysis. A number of techniques and procedures were used to check and verify data including the checking of all data-logging sheets for completeness prior to data entry. To ensure consistency, any omissions or anomalies were noted and checked with the field supervisor following each audit day to determine issues related to that record. Random checks on data quality were also undertaken after data entry was completed. Raw data is provided in Appendix F.

APC’s data-analysis tool allows systematic error checking at the data-entry stage and ensures consistency in analysis. Items are coded by major material type at the analysis stage in the following way: reusable, building waste, household waste, recyclable and problematic.

MUD block clean-up piles were divided by the total number of units in the block when calculating the ‘per household’ figure for weight and volume. This assumes that all MUD residents add to the piles. The estimates of average ‘per household’ weights and volumes, therefore, assume maximum participation in the clean-ups from MUD residents.

Other details: Unless referring to whole numbers, results are presented as whole numbers or to one decimal place. Some percentages have been rounded to the nearest whole number and therefore some figures and descriptions may not add up to 100%. When referring to exceptionally small numbers, two or more decimal places are used.

Individual material categories versus consolidated material categories: Results are generally based on consolidated categories to simplify the analysis. Note that both charts and tables consolidate small individual material categories, for example, materials individually comprising less than 1% of the waste stream are consolidated and labelled accordingly.



Image 4: A non-compliant clean-up pile

3.7 Study limitations

The data for this study was collected and analysed using the best and most accurate methods available within the constraints of available time and budget. This study is a survey, which means that a relatively small amount of data has been collected and then treated as representative of the total. As in any survey, there are limitations to the accuracy of the data, as described below:

Time frame	<ul style="list-style-type: none"> These audits were carried out over a number of months. The data was then used as being representative of SUDs and MUDs within SSROC. Seasonal trends may change waste generation or composition over time. The results of this audit should be treated with caution when comparing the results with reports based on data taken at different times of year.
Representative sample	<ul style="list-style-type: none"> The sample for this audit is necessarily small due to the high per-capita cost and resource-intensive nature of waste auditing. There is always a small probability of inadvertently collecting waste from atypical households, resulting in non-representative data. While this audit was restricted to those areas available for sampling on the allocated audit days, these areas were approved by the participating SSROC councils as being typical and representative of their LGAs, therefore minimising the collection of non-representative data.
Sample size limitations	<ul style="list-style-type: none"> All surveys carry an element of sampling error, which is the mathematical error associated with using a sample to represent a total population. Sampling error can be reduced by taking larger samples. The sampling error involved in waste audits is usually small and can be tabulated by producing estimates augmented by upper and lower confidence intervals.



Image 5: A typical clean-up pile with a number of categories presented

4. RESULTS

4.1 Total sample

Overall, the 2023 audit covered 698 clean-up piles of which 651 were from single dwellings (SUDs) and 47 multi-unit dwelling (MUD) blocks as shown in Table 6. The number of samples was lower in 2023 compared to 2014 due to a decrease in the number of participating councils, i.e., 12 in 2014 and 8 in 2023. Some of the councils amalgamated prior to this audit and of all the participating councils, only three (3) retained a council structure similar to that of previous audits. Some of the councils previously audited did not participate in this audit.

Table 6: Number of clean-up piles assessed

Council	2014			2023		
	SUD	MUD	Total	SUD	MUD	Total
Council 1	133	5	138	71	5	76
Council 2	113	21	134	28	10	38
Council 3				95	5	100
Council 4				82	6	88
Council 5	88	41	129	65	8	73
Council 6				100	7	107
Council 7				57	5	62
Council 8				153	1	154
Council 9*	138	8	146			
Council 10*	150	15	165			
Council 11*	118	12	130			
Council 12*	117	13	130			
Council 13*	125	11	136			
Council 14*	127	21	148			
Council 15*	128	7	135			
Council 16	55	75	130			
Council 17	139	0	139			
Overall	1,431	229	1,660	651	47	698
Range	129 - 165			62 - 154		
Average pile per council	138			87.25		

*Amalgamated council

Overall, there were 1,306 households audited with 651 from SUDs and 655 representing MUD blocks in 2023. Table 7 details the number of buildings audited in each council and the total number of households covered. The 2023 sampling size are also presented, noting that the household numbers sampled in 2023 were only 30% of that sampled in 2014 level. Again, this is due to changes in the council structures between the two audits as well as the reduction in scheduled pick-ups which limit sampling to nominated properties. It should be noted that APC competed with Council's contractors to access the piles prior to their collection.

Table 7: SUD/MUD households audited

Council	2014			2023		
	SUD	MUD	Total	SUD	MUD	Total
Council 1	133	44	177	71	93	164
Council 2	113	844	957	28	180	208
Council 3				95	72	167
Council 4				82	79	161
Council 5	88	354	442	65	73	138
Council 6				100	53	153
Council 7				57	86	143
Council 8				153	19	172
Council 9*	138	63	201			
Council 10*	150	290	440			
Council 11*	118	126	244			
Council 12*	117	113	230			
Council 13*	125	136	261			
Council 14*	127	188	315			
Council 15*	128	63	191			
Council 16	55	919	974			
Council 17	139	0	139			
Overall	1,431	3,140	4,571	651	655	1,306
Range	177-974			138-208		
Average households per council	380			163		

*Amalgamated council

A comparison of the number of councils and service types audited in 2014 and 2023 is provided in Table 8.

Table 8: Summary of 2014 and 2023 audits

Criteria	2014	2023
Councils audited	12	8
Service type		
Scheduled	5	2
On call	3	4
Both	4	2
Total	12	8
SUD households audited	1,431	651
MUD households audited	3,140	655
Total households	4,571	1,306
MUD blocks	229	47
Range of households audited	177-974	138-208
Average households per council	380	163
Range in number of piles assessed range	129 - 165	62 -154
Average piles per council	138	87
Total weight (tonnes)	123 T	101.5 T
Total size (m³)	1,187m³	1,439m³

In the region there are two types of clean-up services used across councils, including scheduled and resident-booked ('on call'). A total of 256 scheduled clean-ups and 442 resident-booked clean-ups were audited. Booked clean-ups generated 2,531 litres, which is significantly larger than scheduled services at 882 litres.



Image 6: Clean-up pile with building material present

4.2 Weight and volume of clean-ups

Table 9 shows the overall pile volume assessed, as well as the total weight and volume of the materials/items in the piles for each council in 2023 and 2014. The difference between the total clean-up volume and the sum of the individual components is due to air space within the clean-up piles. The total weight and volume of the piles (sum of all materials excluding air space) audited were higher in 2014, particularly at MUDs. This was expected considering the sampling size was larger in 2014. Overall, the total weight audited was 101.6 tonnes which is 22 tonnes lower than the 2014 audit.

The total volume of clean-up piles (including air space) placed outside households was 1,438,643 litres (1,439m³) which is higher than the 2014 audit of 1,344m³. However, the subsequent overall audited volume (excluding air space) was 932,726 litres (932.7 m³) which is lower than the 2014 audit of 1,187 m³. The piles in the 2023 audit may not have been as compact as the 2014 audit.

Table 9: Total clean-up weight (kg) and volume (L) assessed in the audit

Council	SUDs			MUDs			Overall		
	Total pile size (L)	Weight (kg)	Volume (L)	Total pile size (L)	Weight (kg)	Volume (L)	Total pile size (L)	Weight (kg)	Volume (L)
Council 1	40,131	5,134	27,175	5,396	1,290	12,605	45,527	6,424	39,780
Council 2	21,417	1,668	22,525	10,100	1,054	14,484	31,517	2,722	37,009
Council 3	123,387	12,279	119,316	14,990	1,319	15,240	138,377	13,598	134,556
Council 4	71,866	12,276	66,619	6,850	690	6,567	78,716	12,965	73,186
Council 5	43,713	3,934	42,292	16,663	1,077	17,773	60,376	5,012	60,065
Council 6	188,876	16,028	186,387	22,200	2,261	28,212	211,076	18,290	214,599
Council 7	168,178	5,094	46,220	3,860	330	4,710	187,478	5,423	50,930
Council 8	684,576	37,045	321,906	1,000	81	695	685,576	37,125	322,601
2023 Total	1,342,144	93,458	832,440	81,059	8,101	100,285	1,438,643	101,558	932,726
2014 Total	1,105,662	102,130	977,002	238,195	21,289	210,256	1,343,857	123,434	1,187,316

Note: The weights and volumes are calculated as sum of all materials.

Table 10 presents the average clean-up weight per pile and per household by dwelling type. The average pile weighed 146 kg in the 2023 audit, which is twice the weight assessed in the 2014 audit (74 kg). In terms of volume of actual items (excluding the air space), the piles in 2023 is also almost twice as much as the piles in 2014, i.e., 1,336 litres and 715 litres, respectively. SUDs averaged 1,279 litres per pile and per household in the 2023 audit. This is almost twice as much as the clean-up pile generated in 2014. MUDs produced 2,134 litres of materials in each pile in the 2023 audit, which is more than twice as much as the 2014 audit of 918 litres. On a per household basis, 153 litres of materials were presented in 2023 at MUDs, which is also more than double the amount in the 2014 audit.

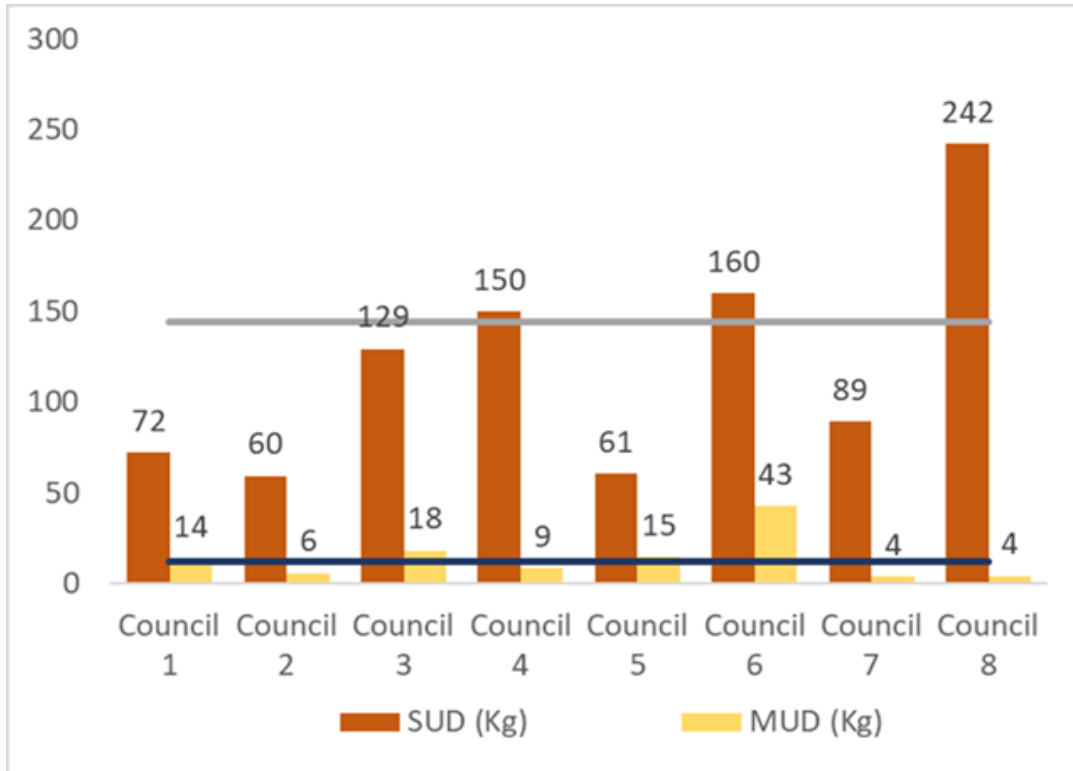
In 2023, MUD blocks had a greater quantity of material by weight and volume in the clean-up pile compared with SUDs. However, on a per household basis, SUDs generated a greater quantity of materials than MUDs which share clean up piles. Each household generated significantly more clean-up materials in 2023 for both housing types with an overall increase of 51 kg by weight and 454 litres by volume from the 2014 level. The average clean-up weight per household was 144 kg for SUDs and only 12 kg for MUDs. These quantities — per household, for both housing types — are also twice as much as the 2014 audit, i.e. 71.4 kg and 6.8 kg, respectively. Overall, the average pile size (including air space) presented by households in the region was 2.06 m³, which is 1.10 m³ per household. The average SUD clean-up pile was 2.06 m³ while MUDs presented a smaller pile of 1.72 m³. This is equivalent to 2.06 m³ per SUD household and only 0.124 m³ per MUD household. Pile size is 60% lower in 2014 compared to 2023, which is more prevalent at SUDs.

Table 10: Average weight and volume of clean-up piles

Housing type	Parameter	Average per pile		Average per household	
		2014	2023	2014	2023
SUDs	Pile size (L)	772.6	2,061.7	772.6	2,061.7
	Weight (kg)	71.4	143.6	71.4	143.6
	Volume (L)	682.7	1,278.7	682.7	1,278.7
MUDs	Pile size (L)	1,040	1,724.7	75.9	123.8
	Weight (kg)	93	172.4	6.8	12.4
	Volume (L)	918	2,133.7	67.0	153.1
Overall	Pile size (L)	809.6	2,061.1	294.0	1,101.6
	Weight (kg)	74.3	145.5	27.0	77.8
	Volume (L)	715.2	1,336.3	259.7	714.2

The average weight per household across the region ranged from 60 kg to 242 kg for SUDs and from 4 kg to 43 kg for MUDs, as shown in Figure 2 Council 8 had the highest average weight per household for SUDs and the lowest average for MUDs, along with Council 7. Council 6 had the highest average weight per household of clean-up pile at MUDs.

Figure 2: Average weight per household per council



The volume of clean-up materials per household ranged from 383 to 2,104 litres for SUDs and 37 to 532 litres for MUDs, as shown in Figure 3. Again, Council 8 had the highest average volume per household for SUDs and also the lowest volume for MUDs. Council 6 had the highest average volume for MUDs.

Figure 3: Volume per household by council and housing type

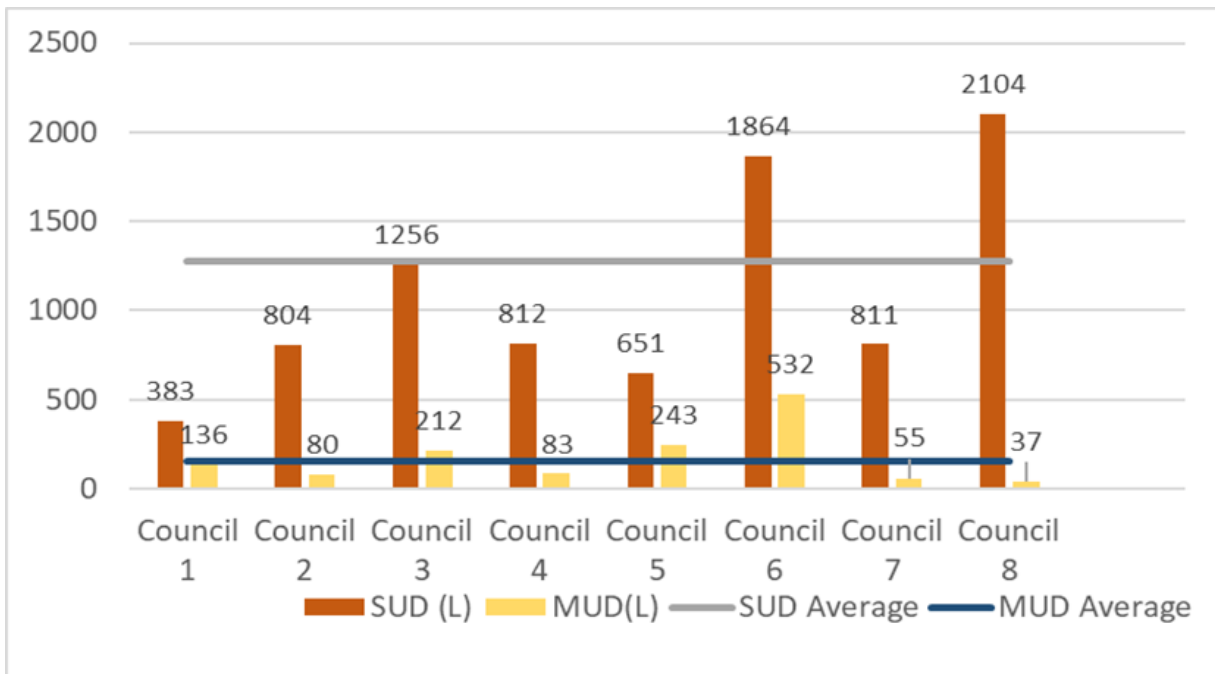




Image 7: A clean-up pile with bagged waste, garden organics, a mattress and reusable material

4.2.1 Clean-up pile sizes

The clean-up pile sizes were assessed according to the nature of the service: booked or scheduled. Welch’s T-test¹ indicates that there is statistically significant difference in overall pile size regarding clean-up type. Booked clean-ups (2,531 litres) have significantly larger piles when compared with scheduled clean-ups (882 litres).

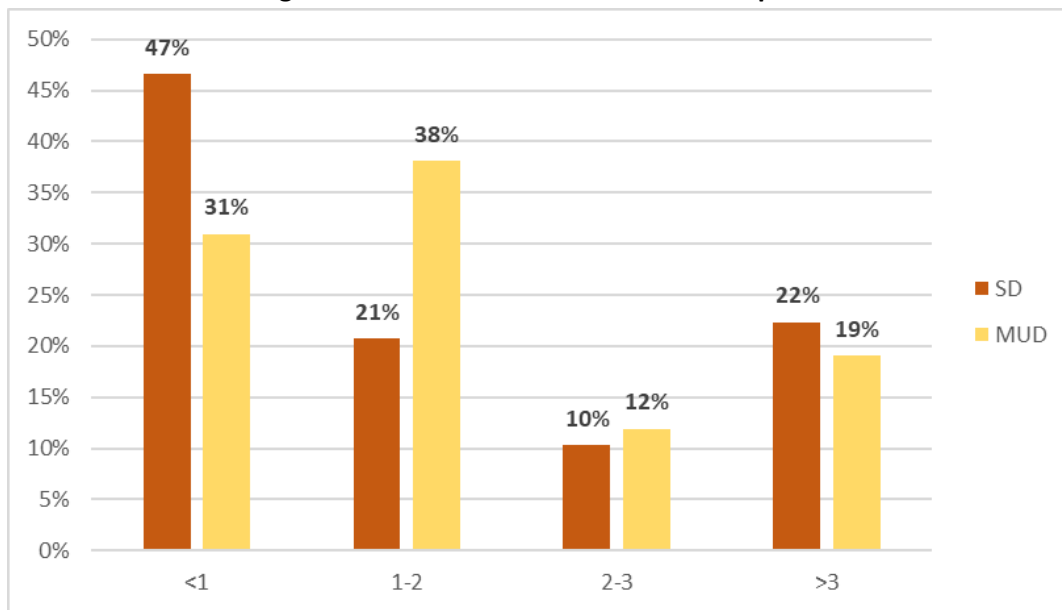
Table 11: Statistical test for pile size difference – booked versus scheduled services

Group	Mean	Welch’s T-test		
Scheduled	882.07	Statistic	df	p
Booked	2,531.2	-8.41	527.39	< .001

df: the degrees of freedom

Figure 4 shows the distribution of clean-up pile sizes. By far the most common clean-up size is between 0 and 1 m³ for SUDs, followed by clean-up piles that are larger than 3 m³. MUD blocks presented larger piles, as often multiple households contribute to each pile, with the most common size being between 1 and 2 m³.

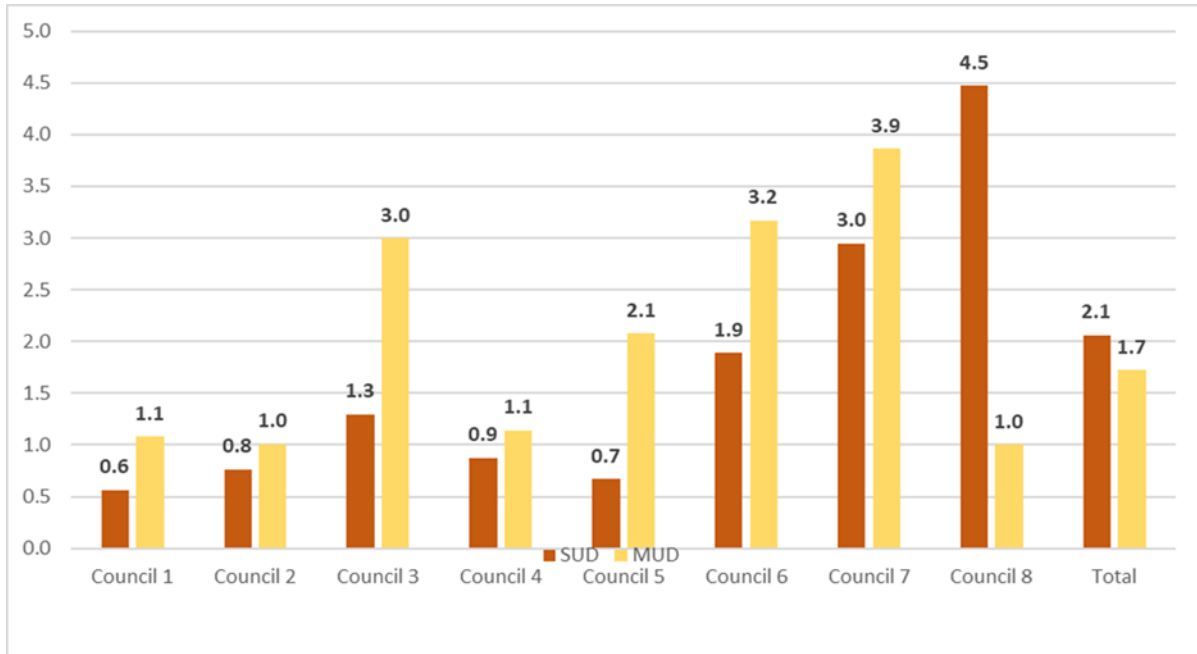
Figure 4: Overall distribution of clean-up size



¹ This test is generally applied when there is a difference between the variations of two populations and also when their sample sizes are unequal.

Figure 5 shows the average clean-up pile size by volume per council for each housing type. Clean-up piles at MUD blocks were larger than the average clean-up pile in SUDs, with the exception of Council 8 where the clean-up piles were much larger in SUDs than in MUDs. An investigation into the clean-up pile size in Council 8 indicates that the data is not skewed by a number of large piles, rather the council area presents consistently larger piles.

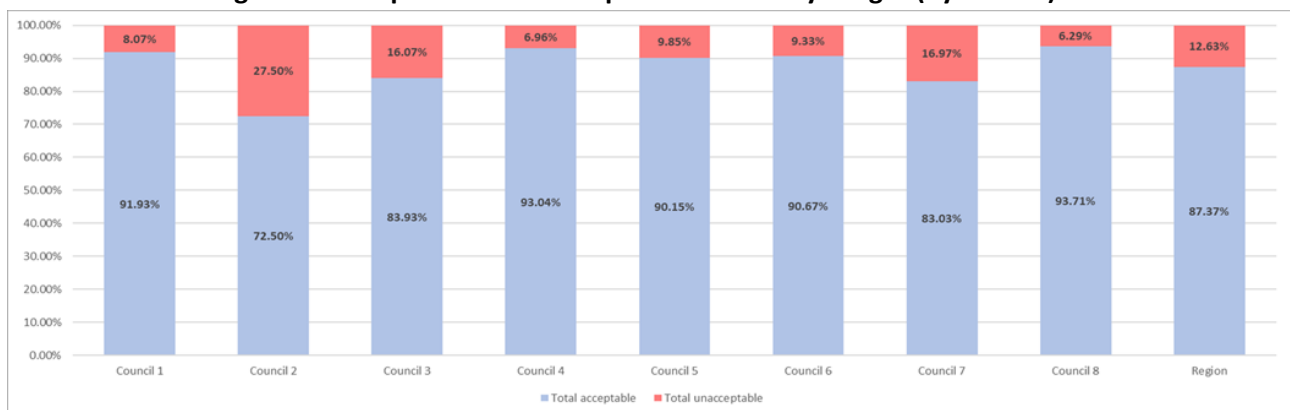
Figure 5: Average clean-up pile size per council (m³)



4.3 Amount of unaccepted material presented

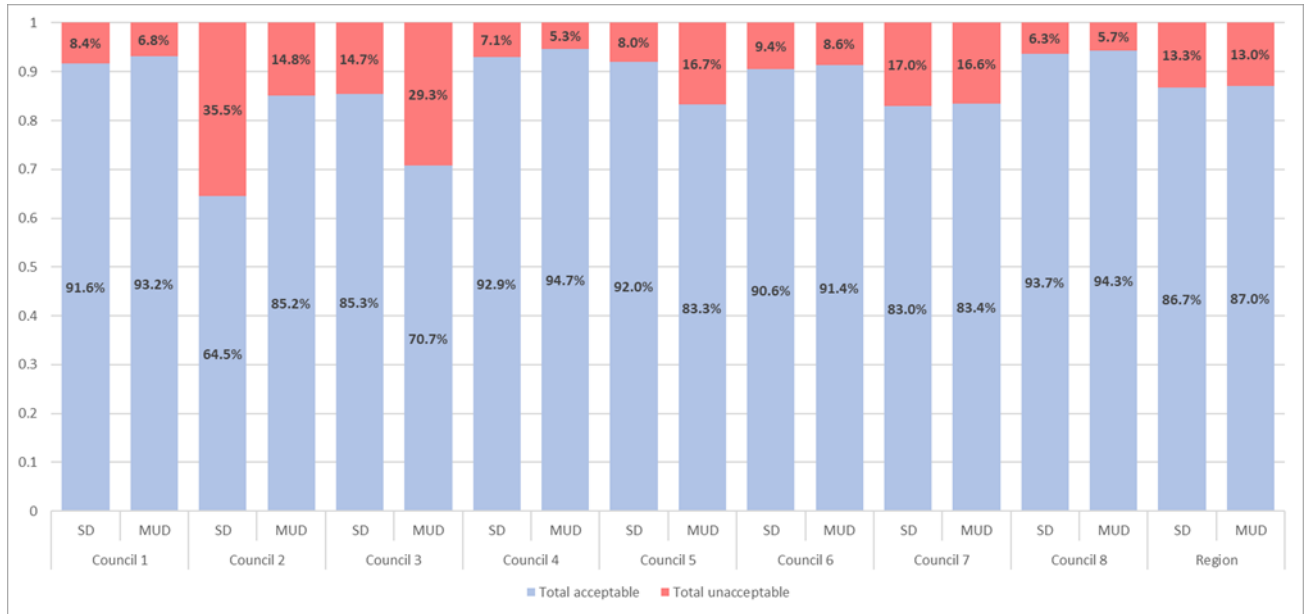
Overall, the residents of the SSROC region of councils presented clean-up piles consisting of a majority of acceptable material. By weight, the overall unaccepted material was 12.6% of the clean-up pile, ranging from 6.3% to 27.5%, as shown in Figure 6.

Figure 6: Proportion of unaccepted materials by weight (by council)



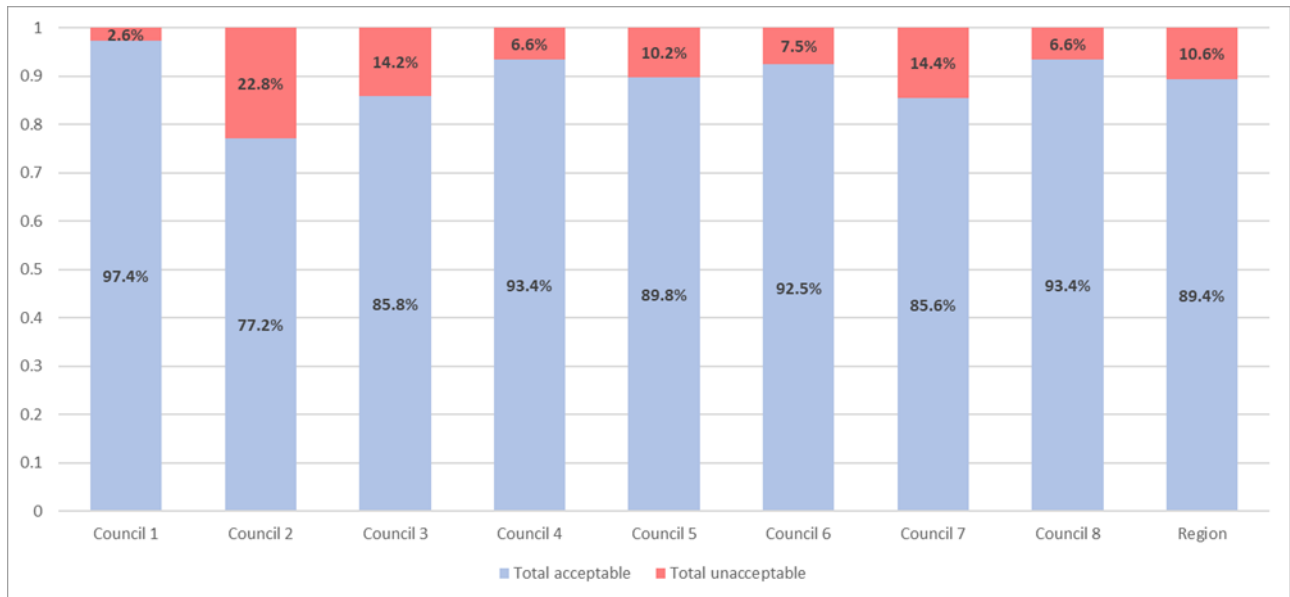
By weight, SUDs and MUDs presented comparable amounts of unaccepted material at 13.3% and 13.0%, respectively (Figure 7) unaccepted materials presented at SUDs ranged from 6.3% to 35.5% while the range of unaccepted materials for MUDs was 5.3% to 29.3%.

Figure 7: Proportion of unaccepted materials by weight (SUDs vs MUDs)



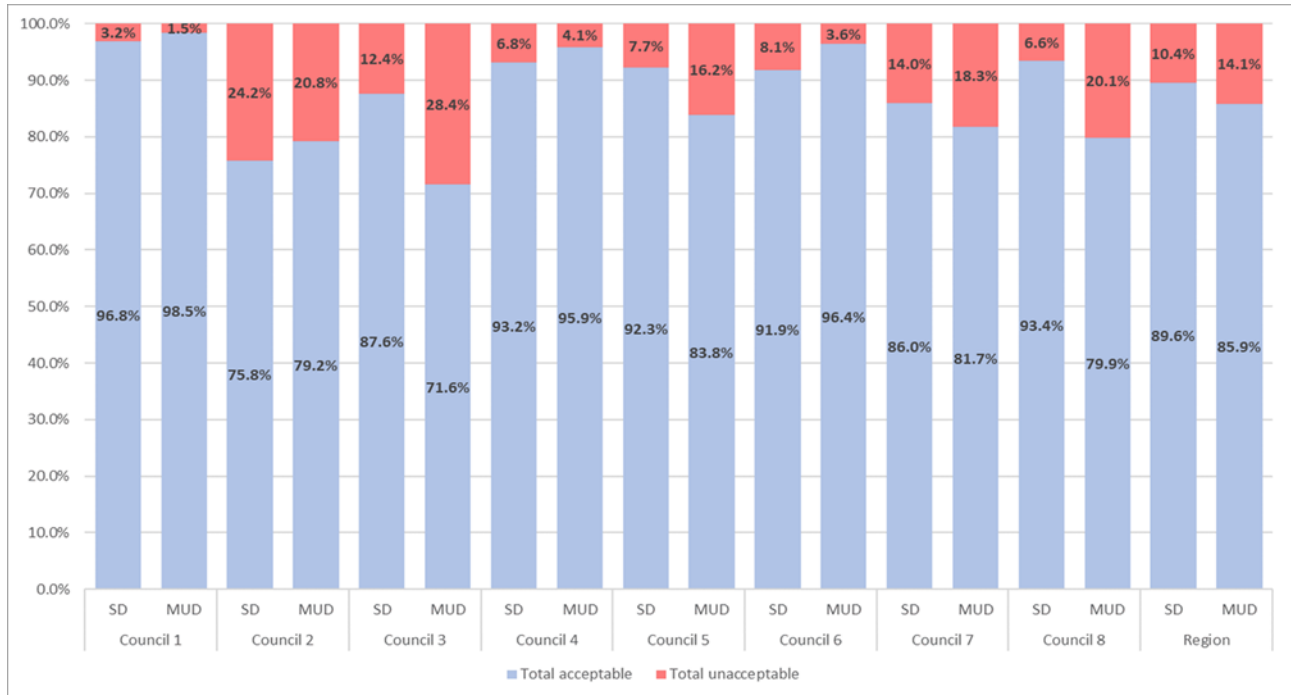
By volume, the overall unaccepted material was 10.6% of the clean-up pile, ranging from 2.6% to 22.8% across councils, as shown in Figure 8.

Figure 8: Proportion of unaccepted materials by volume



By volume, MUDs presented a higher amount of unaccepted materials (14.1%) than SUDs (10.4%), as shown in Figure 9. The unaccepted materials presented by SUDs in the member councils ranged from 3.2% to 24.2% by volume, while MUDs had a range of 1.5% to 28.4%.

Figure 9: Proportion of unaccepted materials by volume (SUDs vs MUDs)



The proportion of acceptable and unaccepted materials found in the clean-up piles are presented in Table 12. Generally, more acceptable materials were found in the clean-up piles by weight and by volume. However, the 2023 audit recorded more unaccepted materials compared with the 2014 audit.

Table 12: Proportion of acceptable and unaccepted materials by weight and volume

Year	Weight		Volume	
	Acceptable	Unacceptable	Acceptable	Unacceptable
2014	90%	10%	94%	6%
2023	87%	13%	89%	11%



Image 8: Unacceptable items in clean-up piles

Table 13 shows further detail about the unacceptable materials presented by households. The most common unaccepted material presented was bagged general waste, followed by garden organics greater than 100mm and treated wood/timber. Some councils do accept these materials in clean-up piles and therefore the volume has not been included as 'unacceptable' in the table. Paint is the most common hazardous material presented and is not accepted by any council.

Table 13: Detail of unaccepted materials – all housing types

Council 1			Council 2			Council 3		
	Weight	Volume		Weight	Volume		Weight	Volume
Bagged household waste	6.17%	1.15%	Wood/timber treated	15.13%	1.11%	Garden organics tree branches (>100 mm D)	6.84%	3.80%
Paints	0.75%	1.05%	Plastic other	2.24%	3.45%	Cardboard	3.41%	5.25%
Polystyrene	0.69%	0.44%	Scrap metal	1.83%	1.30%	Bagged household waste	2.74%	2.88%
Council 4			Council 5			Council 6		
	Weight	Volume		Weight	Volume		Weight	Volume
Overweight items (>50 kg)	3.24%	0.79%	Wood/timber treated	6.54%	6.94%	Bagged household waste	6.91%	5.75%
Bagged household waste	1.40%	2.54%	Bagged household waste	1.63%	1.85%	Garden organics tree branches (>100 mm D)	3.34%	0.86%
Glass - other	0.75%	0.38%	Scrap metal - car parts	0.59%	0.50%	Loose household waste	1.00%	0.47%
Council 7			Council 8			Overall		
	Weight	Volume		Weight	Volume		Weight	Volume
Cardboard	4.45%	4.68%	Bagged household waste	4.62%	4.42%	Bagged household waste	4.18%	3.85%
Bagged household waste	3.46%	3.14%	Rubber and foam	0.66%	1.08%	Garden organics tree branches (>100 mm D)	1.59%	0.78%
Rubble	1.58%	0.36%	Plasterboard	0.29%	0.18%	Wood/timber treated	0.73%	0.78%

4.4 Composition – by weight

4.4.1 Composition by weight – all dwellings

The overall composition of the clean-up waste, by weight, is shown in Figure 10. The largest component was furniture, which made up 28.8% of the clean-up waste. The next largest materials were wood (12.2%), plastic (6.7%), metal (6.4%), white goods and electrical (5.4%), and e-waste (5.3%). The remaining materials had proportions of less than 5%. General household waste was 4.5%, while hazardous waste accounted for only 0.25% of the clean-up pile.

Figure 10: Composition by weight – all dwellings

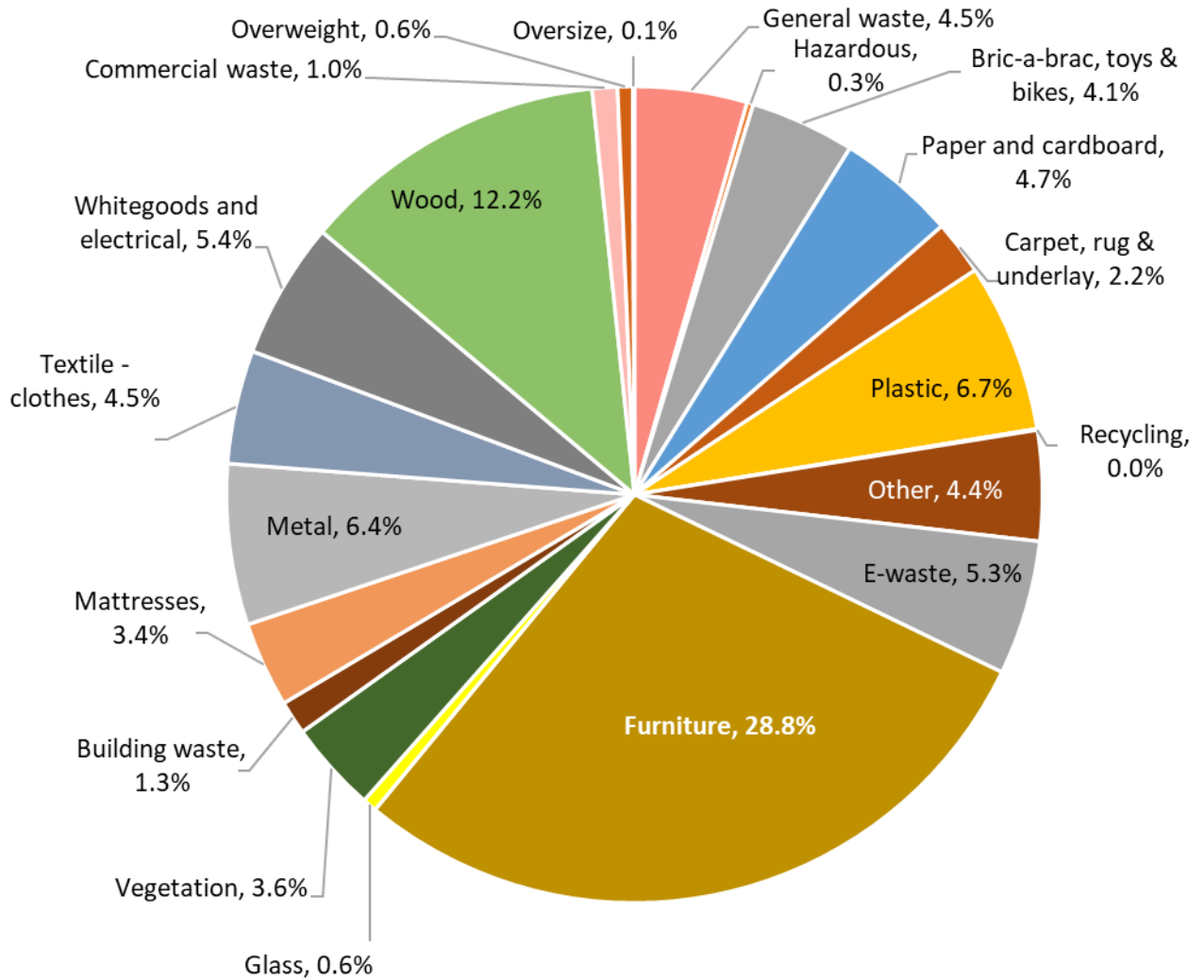


Image 9: Furniture is the most commonly found material by weight

Table 14 shows the composition of the clean-up piles in 2023 compared with 2014. Furniture, which was the largest component in both audits, is comparable, with a slight decline of 1.3% in 2023. The most significant change recorded was garden organics, which decreased by 8.2% or two-thirds compared with the 2014 audit result. The proportion of wood, e-waste, other waste, mattresses, building waste, glass, hazardous materials and recycling also decreased in 2023 whereas plastic, metal, white goods and

electrical, paper and cardboard, textiles, general waste, bric-a-brac, toys and bikes, carpet, rug and underlay, commercial waste, overweight and oversized materials increased during the period.

By volume, furniture increased by 3% when compared with the 2014 level. As with weight, the proportion of garden organics by volume decreased significantly by 8.5%. Mattresses also decreased by 2.4%. Wood, plastic, e-waste, other waste, building waste, glass, hazardous materials and recycling also decreased in 2023 whereas metal, white goods and electrical, paper and cardboard, textiles, general waste, bric-a-brac, toys and bikes, commercial waste, overweight and oversized materials recorded increases, in varying degrees, from the 2014 level. Carpet, rug and underlay remained the same in the two audits.

Table 14: Composition of clean-up piles (all dwellings) – 2023 vs 2014

Category	Percentage by weight		Percentage by volume	
	2014	2023	2014	2023
Furniture	30.10%	28.80%	33.3%	36.3%
Wood	13.24%	12.21%	7.9%	7.7%
Plastic	5.03%	6.69%	7.9%	7.1%
Metal	3.82%	6.37%	2.4%	4.8%
White goods and electrical	1.30%	5.42%	1.1%	3.0%
E-waste	7.55%	5.33%	3.7%	2.8%
Paper and cardboard	3.13%	4.72%	4.8%	6.4%
Textile – clothes	1.88%	4.50%	2.2%	3.8%
General waste	2.75%	4.46%	2.6%	4.1%
Other	7.51%	4.36%	6.8%	4.9%
Bric-a-brac, toys & bikes	1.53%	4.15%	1.2%	4.1%
Garden organics	11.83%	3.60%	12.2%	3.7%
Mattresses	4.53%	3.38%	10.1%	7.7%
Carpet, rug & underlay	2.01%	2.16%	2.1%	2.1%
Building waste	1.90%	1.34%	0.6%	0.4%
Commercial waste	0.00%	1.00%	0.0%	0.6%
Overweight	0.00%	0.60%	0.0%	0.1%
Glass	0.66%	0.56%	0.4%	0.2%
Hazardous	0.82%	0.25%	0.4%	0.2%
Oversize	0.00%	0.06%	0.0%	0.1%
Recycling	0.40%	0.05%	0.3%	0.0%
Total	100.00%	100.00%	100.00%	100.00%

Figure 11 shows the same composition, consolidated into some major categories, comparing the current audit with the 2014 audit. About 58% of the waste in 2023 was recyclable or potentially reusable, which is higher than in 2014 (34%). Problematic/hazardous waste represented 6%, which is lower than the 2014 audit (8.5%) and included e-waste, fuels/solvents/chemicals, gas bottles, fluorescent lights, paint and tyres. Building waste also decreased in 2023 to 2% compared with 11% in 2014. The remainder (34%) is suitable only for landfill, which is lower than the previous audit (47%).

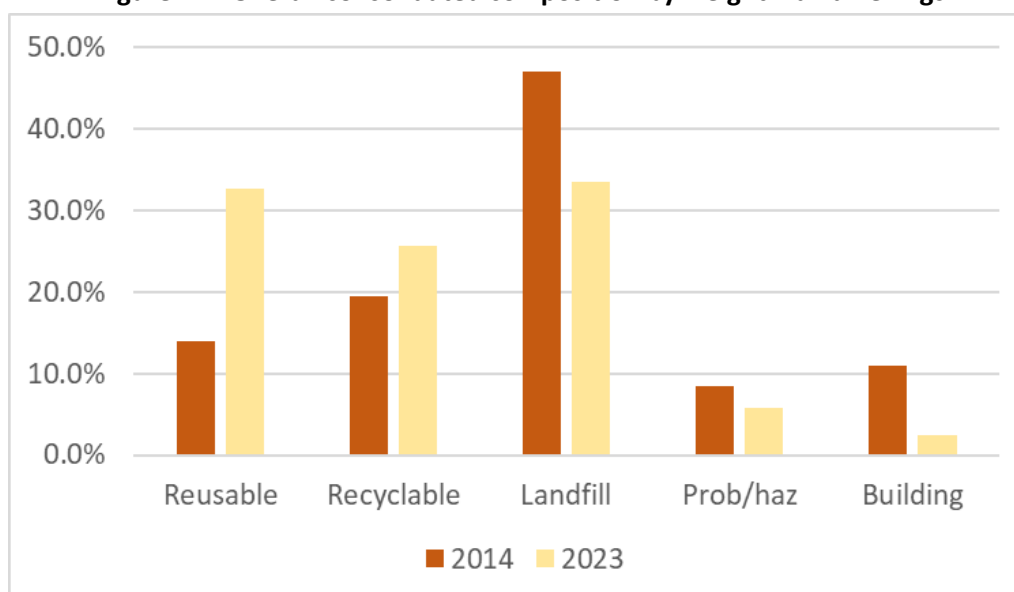
Figure 11: Overall consolidated composition by weight – all dwellings

Table 15 contains more detail about the generation of each major category.

Table 15: Generation for each category by weight (kg per pile) – all dwellings

Category	Reusable	Recyclable	Landfill	Problem/hazardous	Building
General waste	0.00	0.01	6.21	0.26	0.00
Hazardous	0.06	0.00	0.00	0.31	0.00
Bric-a-brac, toys and bikes	2.38	0.71	2.95	0.00	0.00
Paper and cardboard	0.46	6.17	0.23	0.00	0.00
Carpet, rug and underlay	1.52	0.00	1.61	0.00	0.00
Plastic	3.88	0.48	5.32	0.00	0.06
Recycling	0.00	0.07	0.00	0.00	0.00
Other	3.39	0.21	2.75	0.00	0.00
E-waste	0.00	0.00	0.03	7.73	0.00
Furniture – wood/plastic/metal/composite	21.98	7.69	12.24	0.00	0.00
Glass	0.51	0.00	0.32	0.00	0.00
Garden organics	0.00	5.24	0.00	0.00	0.00
Building waste	0.01	0.00	0.00	0.00	1.93
Mattresses	1.18	0.09	3.65	0.00	0.00
Metal	1.28	7.92	0.07	0.00	0.00
Textile – clothes	1.40	0.60	4.54	0.00	0.00
White goods and electrical	0.00	7.79	0.09	0.00	0.00
Wood	8.20	0.00	8.10	0.00	1.46
Commercial waste	0.61	0.24	0.60	0.00	0.00
Overweight	0.72	0.10	0.06	0.00	0.00
Oversize	0.02	0.00	0.07	0.00	0.00
Total	47.61	37.31	48.84	8.30	3.45

During the audit, APC assessed the proportion of each material that may be reusable or recyclable. For example, furniture appears in the 'reusable', 'recyclable' and 'landfill' categories, as some furniture is in reusable condition while other furniture is not, noting that an item is only classified under one specific category based on the auditor's judgment. The reusability of an item is based on quality, craftsmanship and functionality which may still be attractive to future users. The recyclability of furniture depends on material composition and whether these materials would be of value when disassembled.

Table 16 shows the composition of diversion opportunities by weight across all dwellings in the region. Most of the reusable materials generated are furniture (all materials) at 46%. Wood (17.2%), plastic (8.2%) and other waste² (7.1%) were also present. Metal (21.2%), white goods (20.9%) and furniture (20.6%) also dominated the recyclable materials found in the clean-up piles. Approximately 93% of the problematic and hazardous waste was e-waste. Building materials presented were mostly building waste (56%) and wood (43%). There was also a significant quantity of furniture (25.1%), wood (16.6%), general waste (12.7%) and plastic (10.9%) which should be landfilled.

Table 16: Composition of diversion opportunities by weight– all dwellings

Category	Reusable	Recyclable	Landfill	Problem / hazardous	Building
General waste	0.0%	0.0%	12.7%	3.1%	0.0%
Hazardous	0.1%	0.0%	0.0%	3.7%	0.0%
Bric-a-brac, toys and bikes	5.0%	1.9%	6.0%	0.0%	0.0%
Paper and cardboard	1.0%	16.5%	0.5%	0.0%	0.0%
Carpet, rug and underlay	3.2%	0.0%	3.3%	0.0%	0.0%
Plastic	8.2%	1.3%	10.9%	0.0%	1.6%
Recycling	0.0%	0.2%	0.0%	0.0%	0.0%
Other	7.1%	0.6%	5.6%	0.0%	0.0%
E-waste	0.0%	0.0%	0.1%	93.1%	0.0%
Furniture - wood/plastic/metal/composite	46.2%	20.6%	25.1%	0.1%	0.0%
Glass	1.1%	0.0%	0.6%	0.0%	0.0%
Vegetation	0.0%	14.0%	0.0%	0.0%	0.0%
Building waste	0.0%	0.0%	0.0%	0.0%	55.9%
Mattresses	2.5%	0.2%	7.5%	0.0%	0.0%
Metal	2.7%	21.2%	0.1%	0.0%	0.0%
Textile - clothes	2.9%	1.6%	9.3%	0.0%	0.0%
Whitegoods and electrical	0.0%	20.9%	0.2%	0.0%	0.0%
Wood	17.2%	0.0%	16.6%	0.0%	42.5%
Commercial waste	1.3%	0.7%	1.2%	0.0%	0.0%
Overweight	1.5%	0.3%	0.1%	0.0%	0.0%
Oversize	0.0%	0.0%	0.1%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%

² The category 'other waste' incorporates waste material not included in the nominated categories.

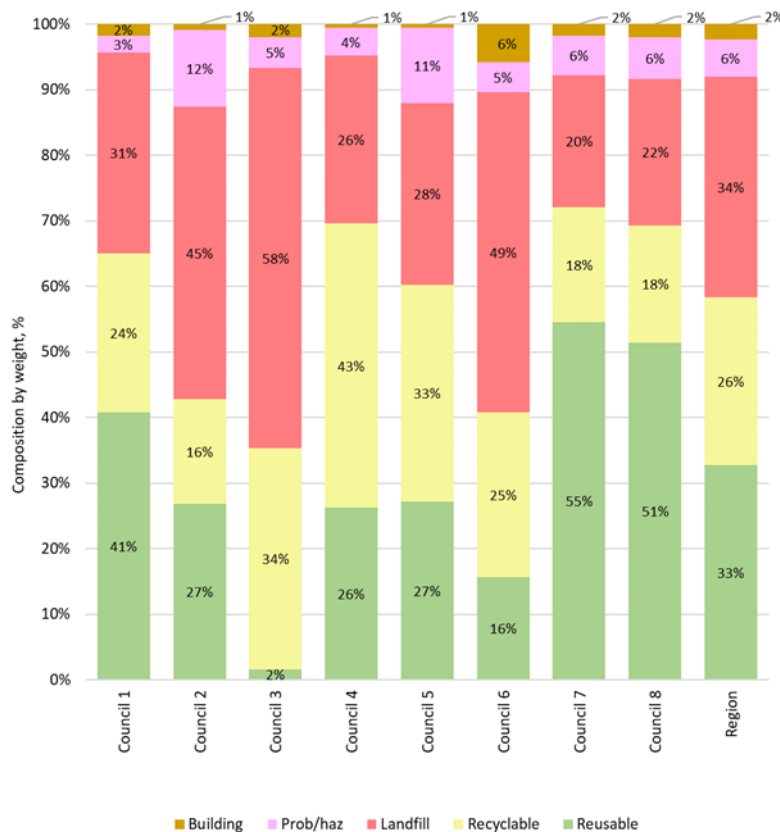


Image 10: Clean-up pile with white goods presented

4.4.2 Composition by weight – by council

Figure 12 presents the composition of material presented by council, by weight. Data shows that the region had 59% reusable and recyclable materials and only one-third of the materials (34%) were destined for landfill. About 6% of the clean-up piles in the region was problematic and hazardous waste, with only two councils having these materials at more than the regional average. Most of the councils had problematic and hazardous waste in the range of 3% to 6%.

Figure 12: Composition by weight by council



Council 4 had the highest amount of recyclable material (43%) and Council 2 had the least at 16%. Residents of Council 7 placed the most amount of reusable material out for collection (55%), followed by Council 8 (51%). Council 3 had the least amount of reusable material (2%).



Image 11: Clean-up pile with reusable furniture, treated timber and white goods

4.4.3 Composition by weight – SUDs

The composition of the clean-up waste for SUDs, by weight, is shown in Figure 13. The largest contributor was furniture at 28.0%, followed by wood (12.8%), plastic (7.0%), scrap metal (6.6%), and white goods and electrical (5.4%). The remaining materials had proportions of less than 5%.

Figure 13: Composition by weight – SUDs

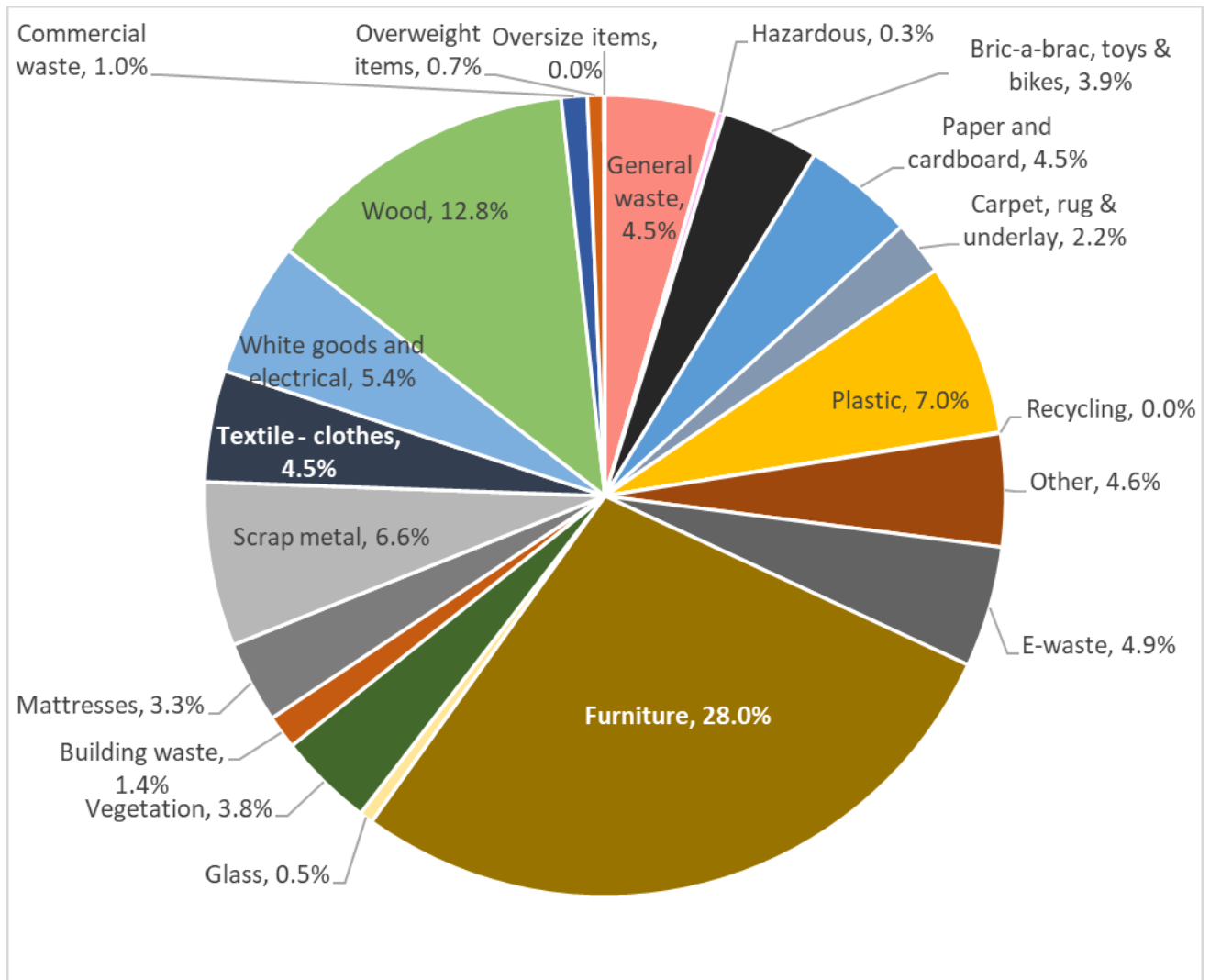




Image 12: A SUD pile with furniture items only

4.4.4 Composition by weight – MUDs

The composition of the clean-up waste for MUDs, by weight, is shown in Figure 14. The largest contributor was furniture at 38.3%, followed by e-waste (10.5%), paper and cardboard (7.2%), bric-a-brac, toys and bikes (6.5%), wood (5.9%), and white goods and electrical (5.1%). The remaining materials had proportions of less than 5%.

Figure 14: Composition by weight - MUDs

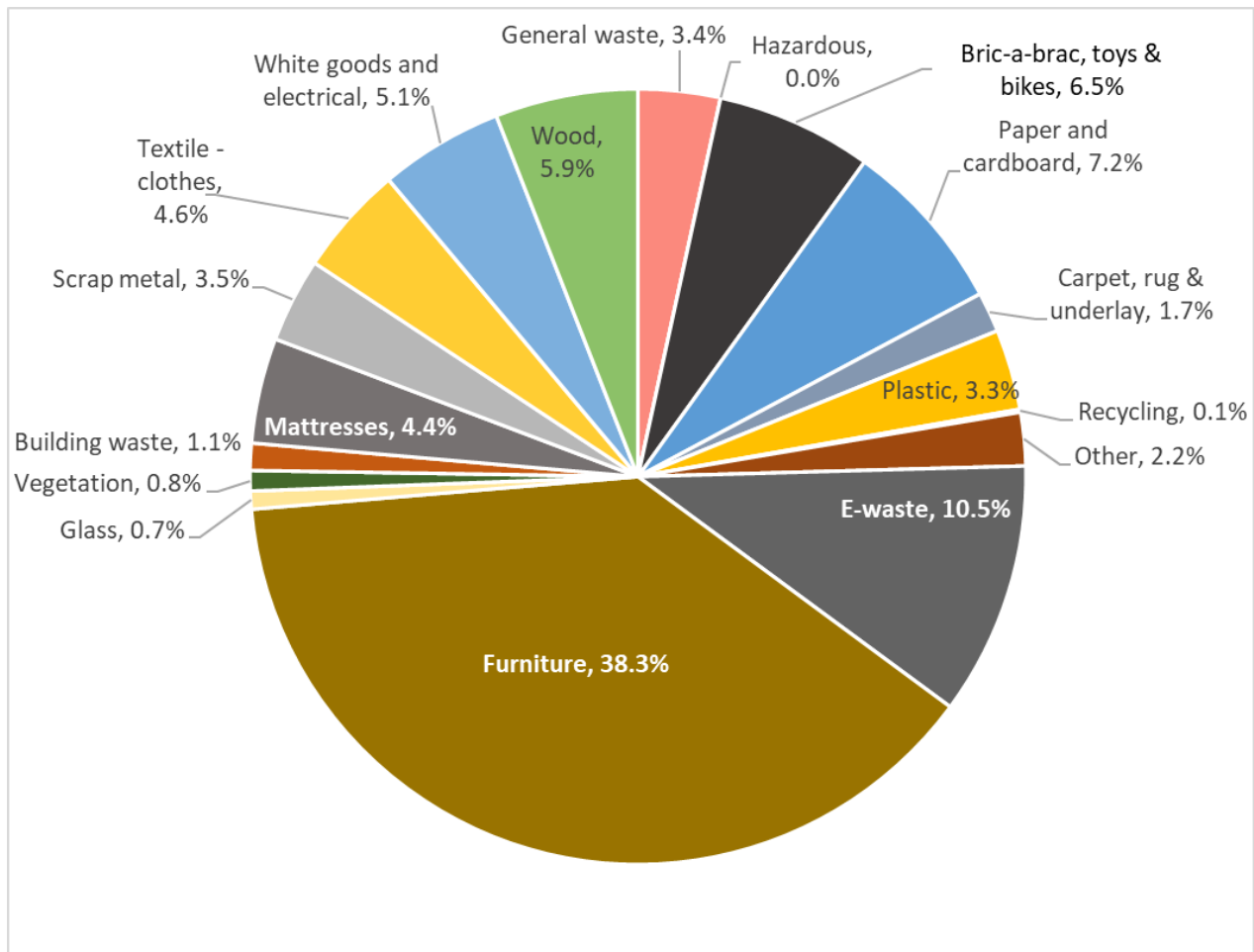


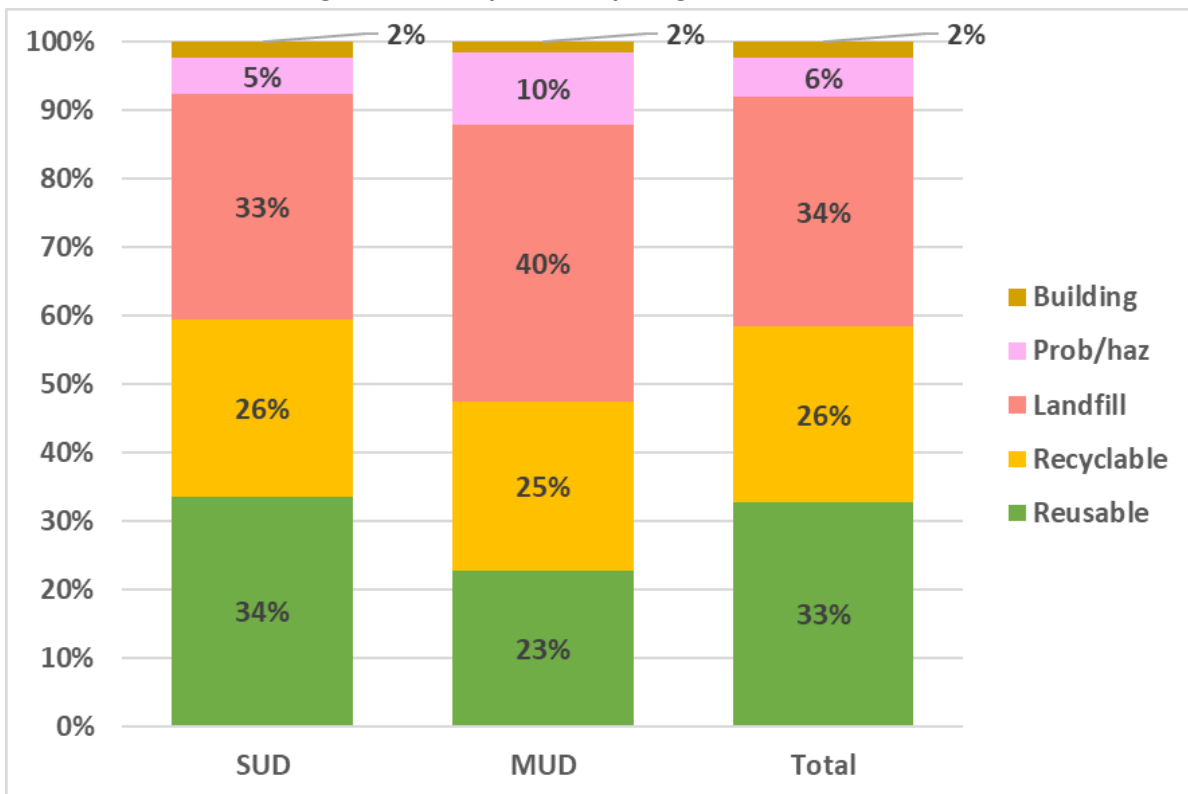


Image 13: Large clean-up piles in front of a MUD block

4.4.5 Composition by weight – SUDs vs MUDs

Figure 15 shows the same composition, consolidated into some major categories. Approximately 33% of the material was reusable, 26% is recyclable and 6% is problematic. Problematic waste included e-waste, fuels/solvents/chemicals, gas bottles, fluorescent lights, paint and tyres. The remainder (34%) is suitable for landfill only. SUDs presented more reusable waste (34%) than MUDs (23%). A quarter of the clean-up piles were represented by recyclable waste at both SUDs and MUDs. MUDs had more waste suitable for landfill (40%) than SUDs (33%). The trend continues with problematic waste, which was 10% of the waste at MUDs compared with SUDs where it was only 5%.

Figure 15: Composition by weight: MUDs vs SUDs



4.4.6 Common materials found in clean-ups by weight

The most common materials found in the clean-up piles for SUDs and MUDs for all councils, by weight, are presented in Table 17 below. Furniture was the most abundant material found, followed by wood, plastic, metal and white goods and electrical white goods. The presence of these materials was more prevalent at SUDs and less so at MUDs. Detailed common materials for each council are presented in Appendix E.

Table 17: Most common materials found in clean-up piles by weight

	SUD		MUD		Overall	
	Item	Composition	Item	Composition	Item	Composition
1	Furniture – all materials	27.98%	Furniture – all materials	38.31%	Furniture – all materials	28.80%
2	Wood	12.75%	E-waste	10.49%	Wood	12.21%
3	Plastic	6.98%	Paper and cardboard	7.22%	Plastic	6.69%
4	Metal	6.62%	Bric-a-brac, toys and bikes	6.47%	Metal	6.37%
5	White goods and electrical	5.44%	Wood	5.92%	White goods and electrical	5.42%

Based on the most common materials, the key opportunities for diversion were reusable and recyclable furniture, white goods, wood and metal in SUDs. For MUDs, diversion opportunities exist through recycling and reuse of materials such as furniture, paper and cardboard, wood and bric-a-brac, toys and bikes. E-waste is usually diverted through alternative pathways offered at the regional scale.



Image 14: Examples of common materials found in clean-up piles

4.5 Composition by volume

4.5.1 Composition by volume – all dwellings

The overall composition of the clean-up waste, by volume, is shown in Figure 16. The largest contributor was furniture, which makes up 36.3% of clean-up waste volume. The next largest categories were wood and mattresses (both at 7.7%), plastics (7.1%) and paper and cardboard (6.4%). The remaining materials had proportions of less than 5%.

Figure 16: Composition by volume – all dwellings

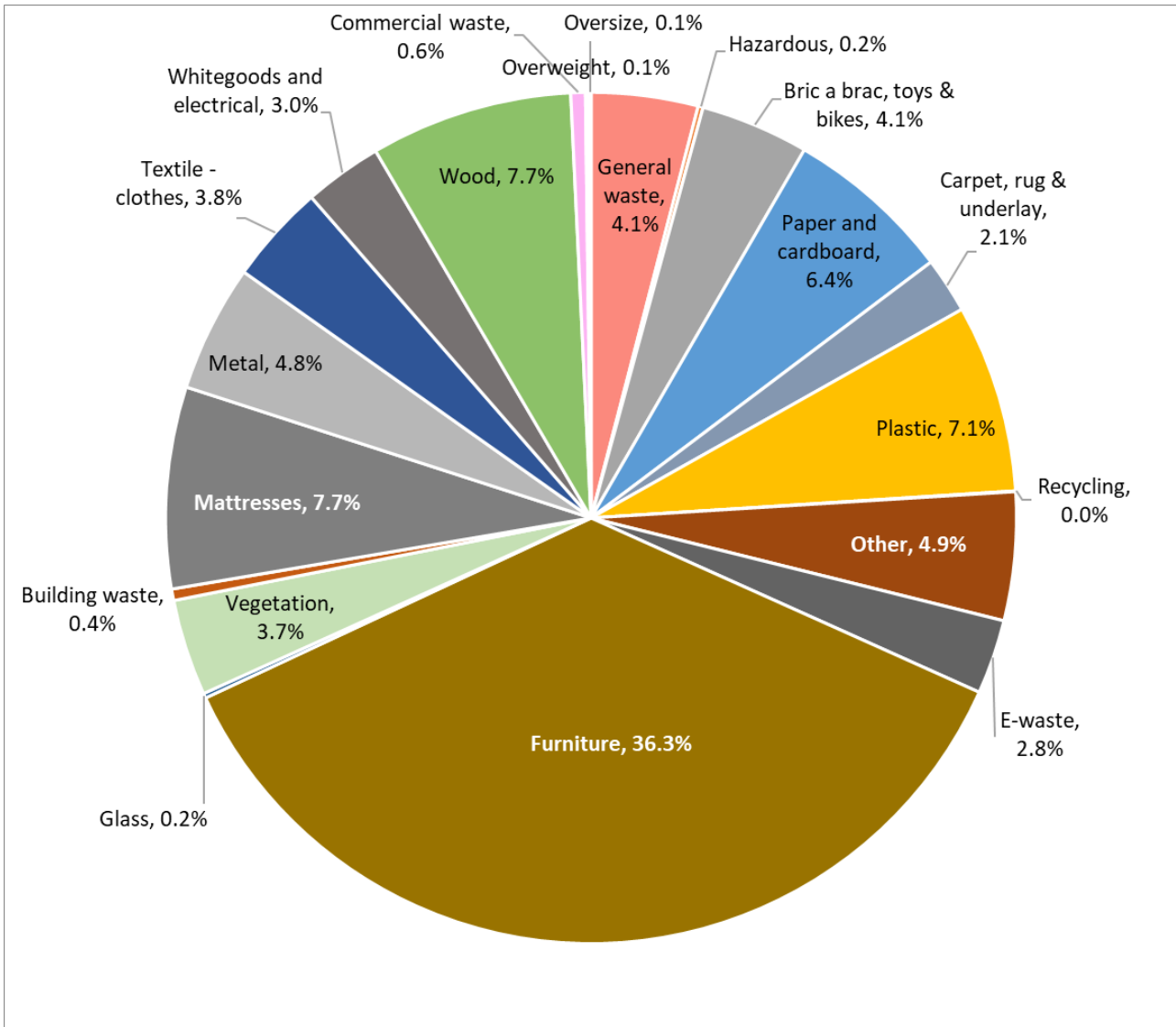


Figure 17 shows the same composition, consolidated into major categories based on potential diversion opportunity in 2023 compared with 2014. Approximately 57% of the waste’s volume was either recyclable or reusable, which is higher than the volume presented in the 2014 audit (35%). Problematic waste was comparable in the 2014 and 2023 audit at 4% and 3% by volume, respectively. These were lower compared with the composition by weight at 8% in 2014 and 6% in 2023. Building waste accounted for 1% in 2023, which was significantly lower than in 2014 at 6%. The remaining materials (39%) presented in the 2023 clean-up piles were only suitable for landfill disposal, which is lower than in the 2014 audit (55%).

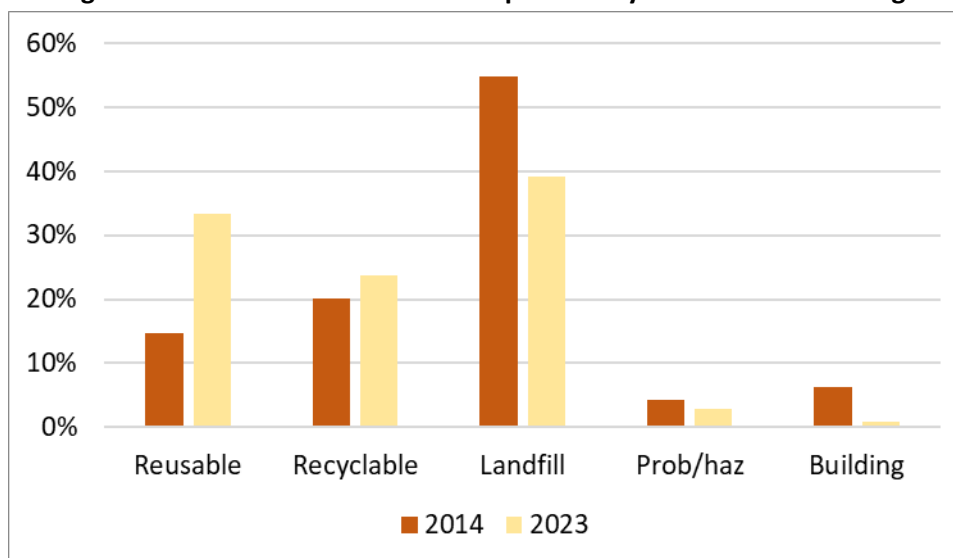
Figure 17: Overall consolidated composition by volume – all dwellings

Table 18 contains more detail about the composition of each major category by volume.

Table 18: Generation of each category by volume (litre per pile)– all dwellings

Category	Reusable	Recyclable	Landfill	Problem/hazardous	Building
General waste	0.00	0.00	54.16	0.00	0.00
Hazardous	1.29	0.00	0.00	1.22	0.00
Bric-a-brac, toys & bikes	22.13	5.49	27.42	0.00	0.00
Paper and cardboard	1.70	81.91	1.53	0.00	0.00
Carpet, rug & underlay	14.47	0.00	13.78	0.00	0.00
Plastic	37.34	3.25	54.43	0.00	0.39
Recycling	0.00	0.42	0.00	0.00	0.00
Other	30.57	1.60	32.88	0.00	0.00
E-waste	0.00	0.00	0.23	37.61	0.00
Furniture – wood/plastic/metal/ composite	238.40	75.69	171.39	0.02	0.00
Glass	1.37	0.00	1.04	0.00	0.00
Garden organics	0.00	48.93	0.00	0.00	0.00
Building waste	0.17	0.00	0.00	0.00	5.64
Mattresses	25.33	1.58	75.37	0.00	0.00
Metal	9.99	53.63	0.89	0.00	0.00
Textile – clothes	19.78	4.20	26.48	0.00	0.00
White goods and electrical	0.00	39.28	0.34	0.00	0.00
Wood	38.22	0.00	59.16	0.00	5.36
Commercial waste	3.34	1.36	2.73	0.00	0.00
Overweight	1.09	0.17	0.30	0.00	0.00
Oversize	0.20	0.00	1.02	0.00	0.00
Total	445.39	317.52	523.15	38.85	11.38

During the audit, APC assessed the proportion, by volume, of each material that may be reusable or recyclable, as shown in Table 19. For example, furniture appears in 'reusable', 'recyclable' and 'landfill', as some furniture still has some functional life remaining and some may no longer be reusable or recyclable. A specific item was only considered under one category based on the auditor's judgment.

Most of the problematic waste in the clean-up pile was e-waste (97%). The most prevalent reusable waste was furniture at 54%. The recyclable component of the clean-up piles was dominated by paper and cardboard (26%), furniture (24%), metal (17%), garden organics (15%) and white goods (12%). The building waste was mainly rubble (50%) and wood (47%).

By volume, 33% of the waste destined for landfill was also furniture. The remaining materials for landfill comprised mattresses (14%), wood (11%) and plastic and general waste, both at 10%. Textiles represented 4% of the reusable component, 1% recyclable and 5% of material destined for landfill.

Table 19: Composition of diversion opportunity by volume – all dwellings

Category	Reusable	Recyclable	Landfill	Problem / hazardous	Building
General waste	0.0%	0.0%	10.4%	0.0%	0.0%
Hazardous	0.3%	0.0%	0.0%	3.1%	0.0%
Bric-a-brac, toys and bikes	5.0%	1.7%	5.2%	0.0%	0.0%
Paper and cardboard	0.4%	25.8%	0.3%	0.0%	0.0%
Carpet, rug and underlay	3.2%	0.0%	2.6%	0.0%	0.0%
Plastic	8.4%	1.0%	10.4%	0.0%	3.4%
Recycling	0.0%	0.1%	0.0%	0.0%	0.0%
Other	6.9%	0.5%	6.3%	0.0%	0.0%
E-waste	0.0%	0.0%	0.0%	96.8%	0.0%
Furniture - wood/plastic/metal/composite	53.5%	23.8%	32.8%	0.1%	0.0%
Glass	0.3%	0.0%	0.2%	0.0%	0.0%
Vegetation	0.0%	15.4%	0.0%	0.0%	0.0%
Building waste	0.0%	0.0%	0.0%	0.0%	49.5%
Mattresses	5.7%	0.5%	14.4%	0.0%	0.0%
Metal	2.2%	16.9%	0.2%	0.0%	0.0%
Textile - clothes	4.4%	1.3%	5.1%	0.0%	0.0%
Whitegoods and electrical	0.0%	12.4%	0.1%	0.0%	0.0%
Wood	8.6%	0.0%	11.3%	0.0%	47.1%
Commercial waste	0.7%	0.4%	0.5%	0.0%	0.0%
Overweight	0.2%	0.1%	0.1%	0.0%	0.0%
Oversize	0.0%	0.0%	0.2%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%



Image 15: Textiles presented in a clean-up pile

4.5.2 Composition by volume – by council

Figure 18 shows the consolidated composition by volume for each of the councils audited. Compared with the regional composition of 39% of materials destined for landfill, two councils had a higher percentage of materials destined for landfill, at 56% to 64% while the remaining councils were below, ranging from 24% to 38%.

In terms of the reusable component, the region averaged 33%, with two councils presented less materials in this category than the regional average, ranging from 2% to 14%. The remaining councils exceeded the regional average in this category, ranging from 34% to 55%. The region presented 24% recyclable materials in their clean-up piles with three councils below the regional average and four councils above the regional average.

The composition of problematic and hazardous waste ranged from 2% to 7%, with a regional average of 3%. Building materials are consistent at 1% in most of the councils audited.

Figure 18: Overall consolidated composition by volume – by council

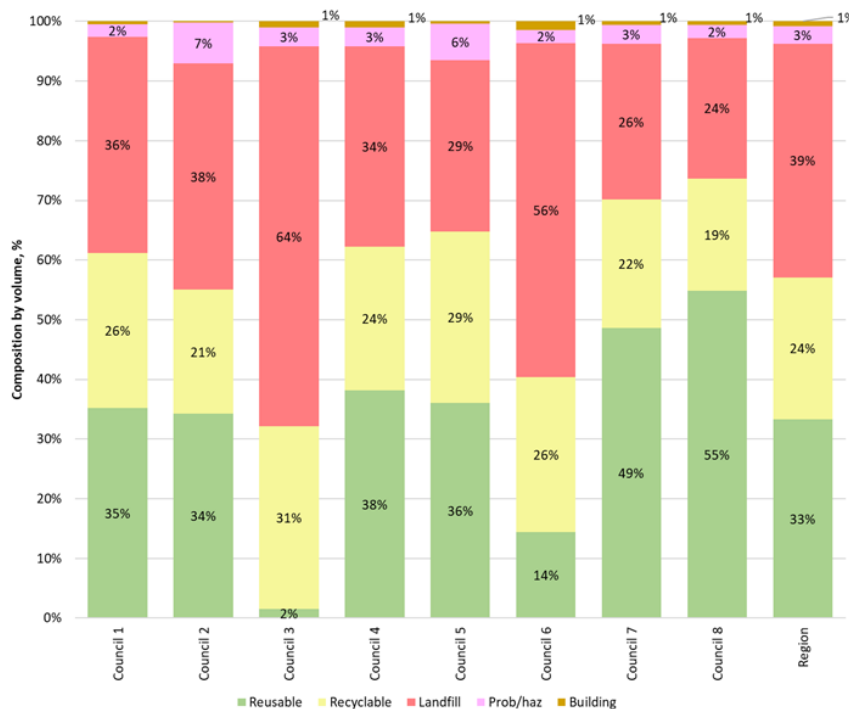


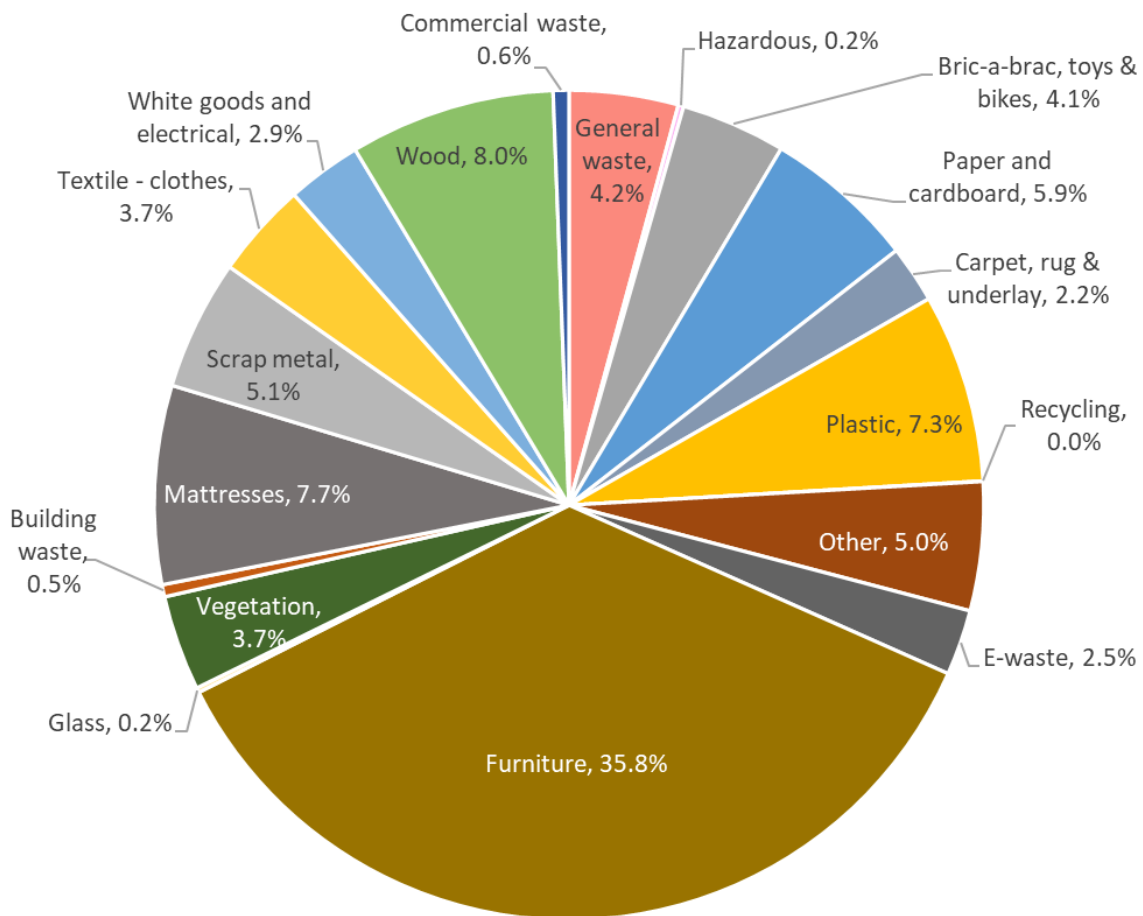


Image 16: Reusable material (mostly furniture) presented by SSROC households

4.5.3 Composition by volume – SUDs

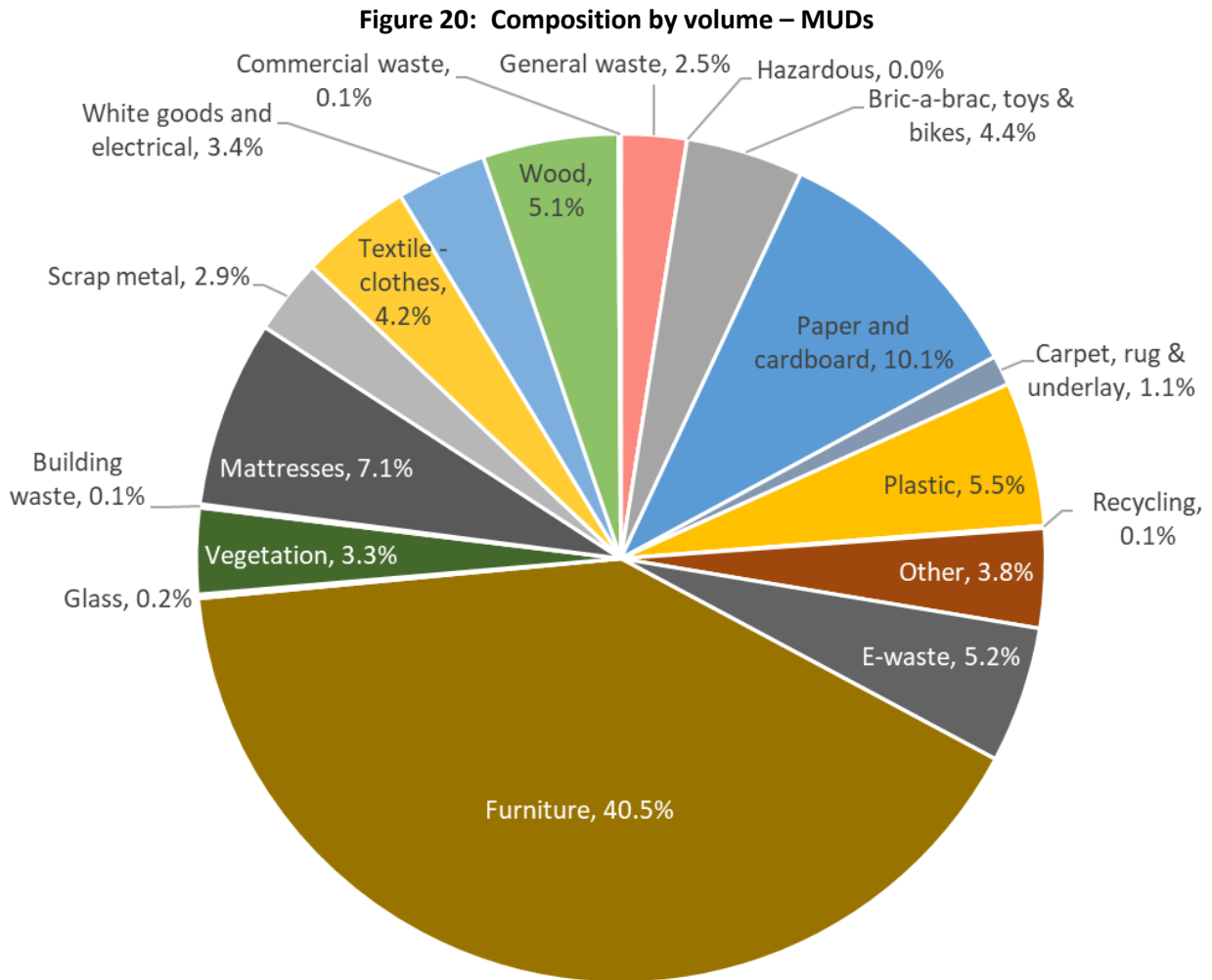
The composition of the clean-up waste at SUDs, by volume, is shown in Figure 19. Again, the largest contributor was furniture, which made up 35.8% of clean-up waste volume. The next largest category was wood (8.0%), followed by mattresses (7.7%), plastic (7.3%), paper and cardboard (5.9%), scrap metal (5.1%) and other materials (5.0%). The remaining materials had proportions of less than 5%.

Figure 19: Composition by volume – SUDs



4.5.4 Composition by volume – MUDs

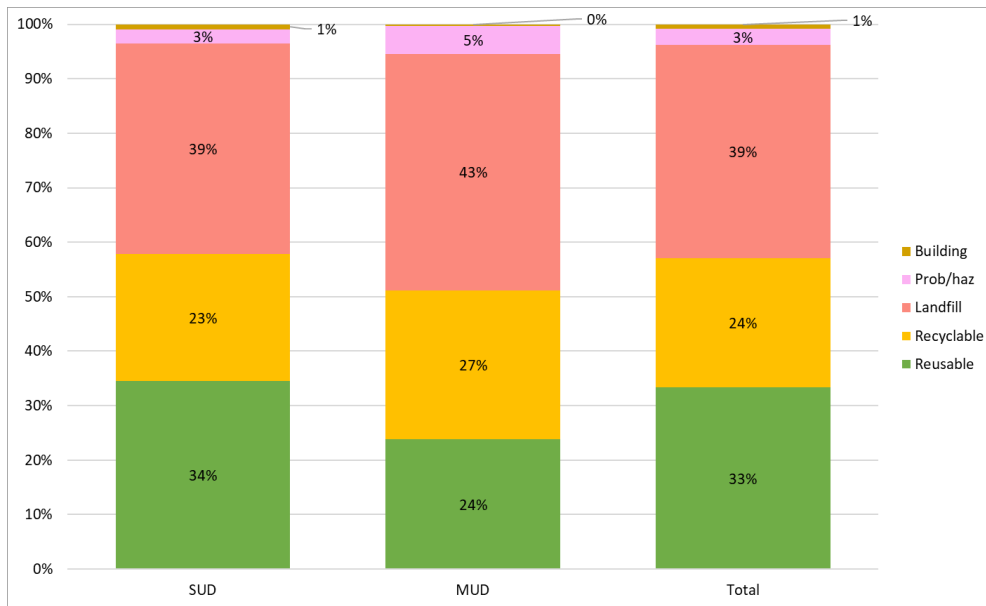
The composition of the clean-up waste at MUDs, by volume, is shown in Figure 20. The largest contributor was furniture, which makes up 40.5% of clean-up waste volume, followed by paper/cardboard (10.1%), mattresses (7.1%), plastic (5.5%) and e-waste (5.2%). The remaining materials were less than 5% in composition.



4.5.5 Composition by volume – SUDs vs MUDs

Figure 21 shows the same composition, consolidated into five major categories to demonstrate diversion opportunities by housing type. Approximately 57% of the waste’s volume was recyclable or reusable. Problematic waste was 3% by volume while building waste accounted for 1%. The remaining volume (39%) was suitable for landfill only. SUDs presented a greater quantity of reusable materials by volume, while MUDs had more recyclable materials in their clean-up piles. MUDs also had more materials for landfilling, as well as more problematic and hazardous materials compared with SUDs. No building material was recorded at MUDs.

Figure 21: Overall consolidated composition by volume – SUDs vs MUDs



4.5.6 Common materials found in clean-ups by volume

The most common materials by volume found in the clean-up piles for SUDs and MUDs are presented below in Table 20. Overall, furniture was the dominant material found in SUDs’ clean-up piles. Wood, mattresses, plastic, and paper and cardboard were also frequently found. These materials were more prevalent at SUDs than in MUDs, although MUDs presented a greater proportion of furniture and paper and cardboard than SUDs.

Table 20: Most common materials found in clean-up piles by volume

	SUD		MUD		Overall	
	Item	Count	Item	Count	Item	Count
1	Furniture – all materials	35.8%	Furniture – all materials	40.8%	Furniture – all materials	36.3%
2	Wood	8.0%	Paper and cardboard	10.1%	Wood	7.7%
3	Mattresses	7.7%	Mattresses	7.1%	Mattresses	7.6%
4	Plastic	7.3%	Plastic	5.5%	Plastic	7.1%
5	Paper and cardboard	5.9%	E-waste	5.2%	Paper and cardboard	6.4%

4.6 Composition by count

A total of 2,728 larger items were presented in the region, which indicates an average generation of two (2) items per household, as shown in Table 21. These items consisted mostly of wooden furniture (673), composite furniture (538), metal furniture (216), small household appliances (193), mattresses (137), plastic furniture (136), sofas, sofa beds, lounges and chairs (136), fans/heaters (118) and tools with a cord and battery (107). The remaining categories were counted at less than 100.

SUDs presented more of the larger items than MUDs, with items consisting of mostly furniture (wooden, composite, metal and plastic), small household appliances, mattresses, and sofas, sofa beds, lounges and chairs. SUDs presented 87% more wooden furniture, 91% more composite furniture and 86% more metal furniture than MUDs. Each MUD household presented an average of 0.5 larger items when compared with 3.7 larger items in SUDs. Computer/TVs, bikes/exercise bikes and vacuum cleaners were also found in quantity in the audited piles. Hazardous items such as paint, fluorescent lights, tyres, fuels/solvents/chemicals and gas bottles/extinguishers were also found among the piles.

Table 21: Generation by count, by housing type

Category	SUD		MUD		Overall	
	Total audited count (no.)	Generation by count (no./hh)	Total audited count (no.)	Generation by count (no./hhld)	Total audited count (no.)	Generation by count (no./hhld)
Batteries – car	0	0.0	0	0.0	0	0.0
Bike/exercise bike	65	0.1	6	0.0	71	0.1
Barbecue	36	0.1	1	0.0	37	0.0
E-waste: computer/TVs	83	0.1	16	0.0	99	0.1
E-waste: microwave	26	0.0	2	0.0	28	0.0
E-waste: fan/heater	94	0.1	24	0.0	118	0.1
E-waste: vacuum cleaner	45	0.1	8	0.0	53	0.0
E-waste: small household appliances	167	0.3	26	0.0	193	0.1
E-waste: other – tools/garden with cord/battery	94	0.1	13	0.0	107	0.1
Furniture: wooden	597	0.9	76	0.1	673	0.5
Furniture: plastic	131	0.2	5	0.0	136	0.1
Furniture: metal	190	0.3	26	0.0	216	0.2
Furniture: composite	495	0.8	43	0.1	538	0.4
Children’s car seat/booster	33	0.1	0	0.0	33	0.0
Fuels/solvents/chemicals	2	0.0	0	0.0	2	0.0
Gas bottles/extinguishers	2	0.0	0	0.0	2	0.0
Lights – fluoro	12	0.0	1	0.0	13	0.0
Mattresses	121	0.2	16	0.0	137	0.1
Paints	50	0.1	0	0.0	50	0.0
Sofa, sofa bed, lounge chair	115	0.2	21	0.0	136	0.1
Tyres	5	0.0	0	0.0	5	0.0
White goods: air conditioner	3	0.0	0	0.0	3	0.0
White goods: fridge/freezer	25	0.0	4	0.0	29	0.0
White goods: dishwasher	3	0.0	1	0.0	4	0.0
White goods: washing machine/dryer	28	0.0	5	0.0	33	0.0
Overweight items (>50 kg)	9	0.0	0	0.0	9	0.0
Oversize items (>1.5 m)	2	0.0	1	0.0	3	0.0
Total	2433	3.7	295	0.5	2728	2.1

4.7.1 Common materials in the clean-up pile – by count

By count, the most common materials presented in the clean-up piles for SUDs and MUDs are shown below in Table 22. These items are also described in detail in the previous section. Timber and composite furniture dominated the clean-up piles in both housing types, with a comparable proportion of timber furniture and a slightly greater proportion of composite furniture in SUDs than in MUDs. SUDs also had more metal furniture while MUDs had proportionally more small household appliances in their clean-up piles.

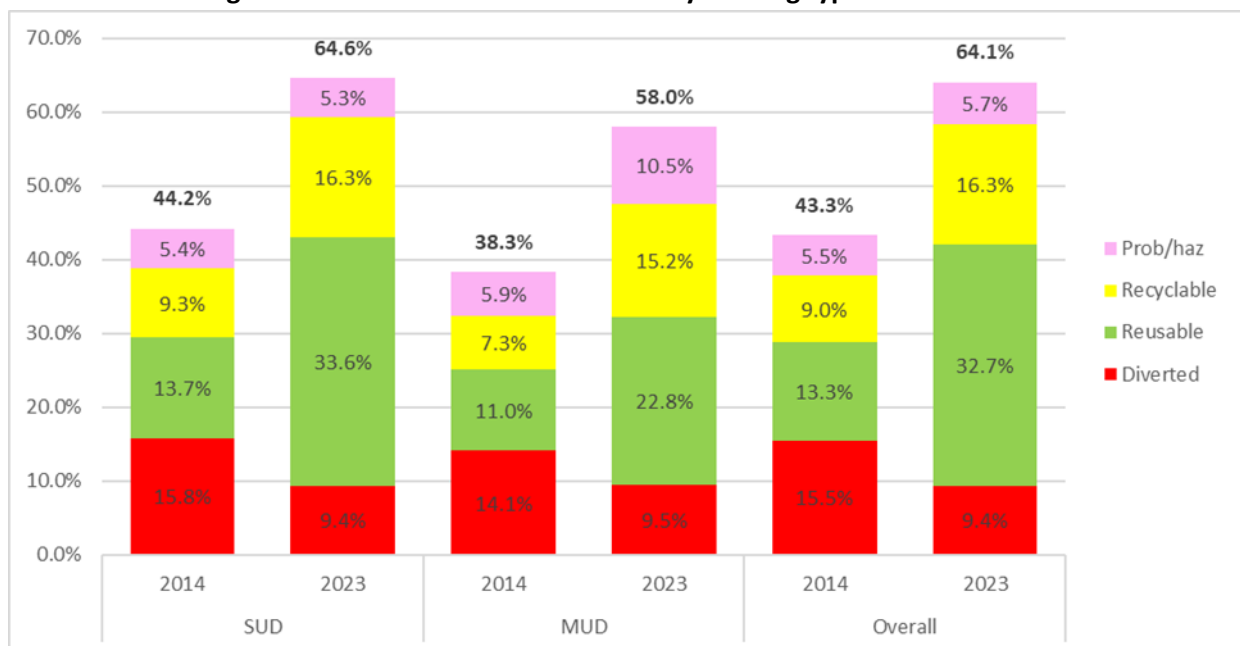
Table 22: Most common materials found in clean-up piles by count

	SUD		MUD		Overall	
	Item	Count	Item	Count	Item	Count
1	Furniture: wooden	24.5%	Furniture: wooden	24.7%	Furniture: wooden	24.7%
2	Furniture: composite	20.3%	Furniture: composite	19.7%	Furniture: composite	19.7%
3	Furniture: metal	7.8%	E-waste: small household appliances	7.9%	Furniture: metal	7.9%
4	E-waste: small household appliances	6.9%	Furniture: metal	7.1%	E-waste: small household appliances	7.1%
5	Furniture: plastic	5.4%	E-waste: fan/heater	5.0%	Mattresses and Furniture: plastic	5.0%

4.7 Potential for recycling and reuse

Results in this section are presented by weight, as landfill diversion is measured in this manner. Current 2023 diversion was comparable at 9% for both housing types. This consisted of mattresses, garden organics, metals, white goods and e-waste, which are currently recycled by various councils. Theoretically a further 49% could be recovered (33% via reuse and 16% via recycling), which is higher than the 2014 audit of 22% (13% potentially reusable and 9% potentially recyclable). Problematic and hazardous waste (6%) could theoretically be recovered through alternative pathways. Theoretically, 55% of clean-up waste could be diverted from landfill if households used alternative pathways to reuse and recycle items, as shown in Figure 22. From the audit results, SUDs could achieve 56% diversion and MUDs 49% diversion from landfill.

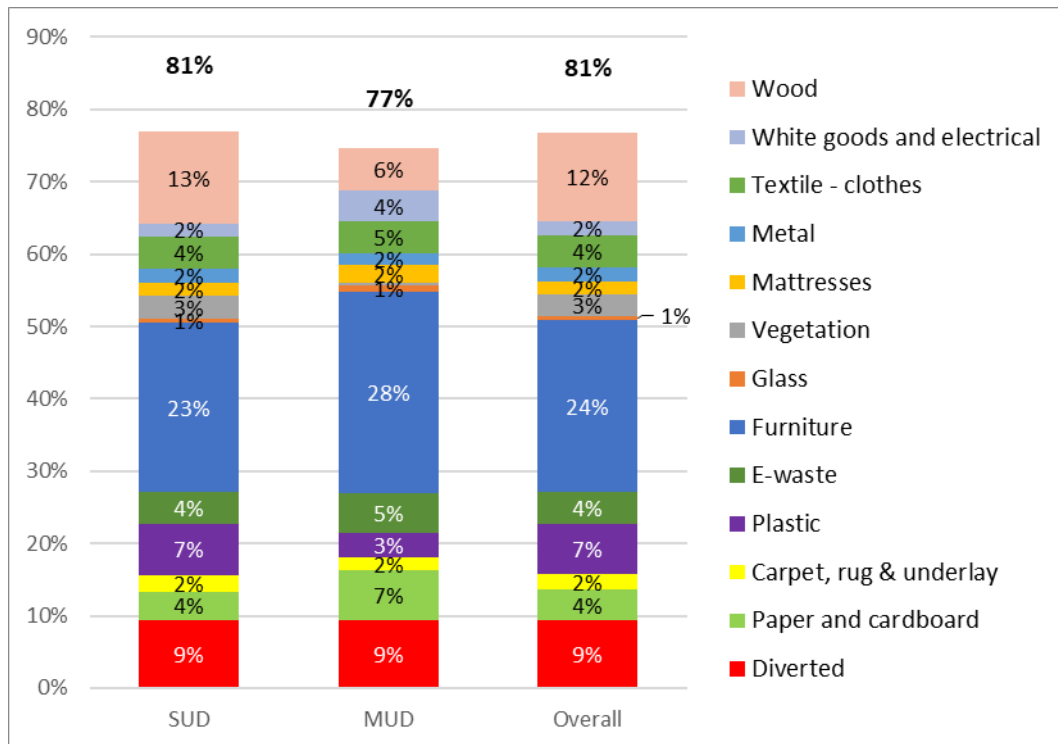
Figure 22: Potential landfill diversion by housing type – 2023 vs 2014



Potential landfill diversion increased by 20.8% in 2023 when compared with the 2014 level, from 43.3% in 2014 to 64.1% in 2023. The increase can be attributed to more reusable and recyclable materials found in the piles. This was also reflected in the decrease in actual diversion from 16% to 9%. The same pattern is observed in both housing types with SUDs recording an increase in potential diversion of 20% and MUDs 19.7%, with decreasing actual diversion by 6.4% and 4.6%, respectively. Potential diversion of problematic and hazardous waste increased by 4% in 2023.

Details of the reuse and recycling opportunities for each housing type is shown in Figure 23, where reusable furniture presented the highest landfill diversion opportunity, at 24%, followed by wood (12%), plastics (7%), textiles, e-waste and recyclable paper/cardboard (each at 4%). There are smaller amounts of garden organics, metals, white goods, mattresses, carpet/rug/underlay and glass, which can also be reused and recycled. While councils discourage materials that can be currently recycled through the three-bin kerbside waste system, paper and cardboard and garden organics were seen across the board in clean up piles. Most cardboard observed was thick, large board not suitable for kerbside bins.

Figure 23: Detail of recycling and reuse opportunities

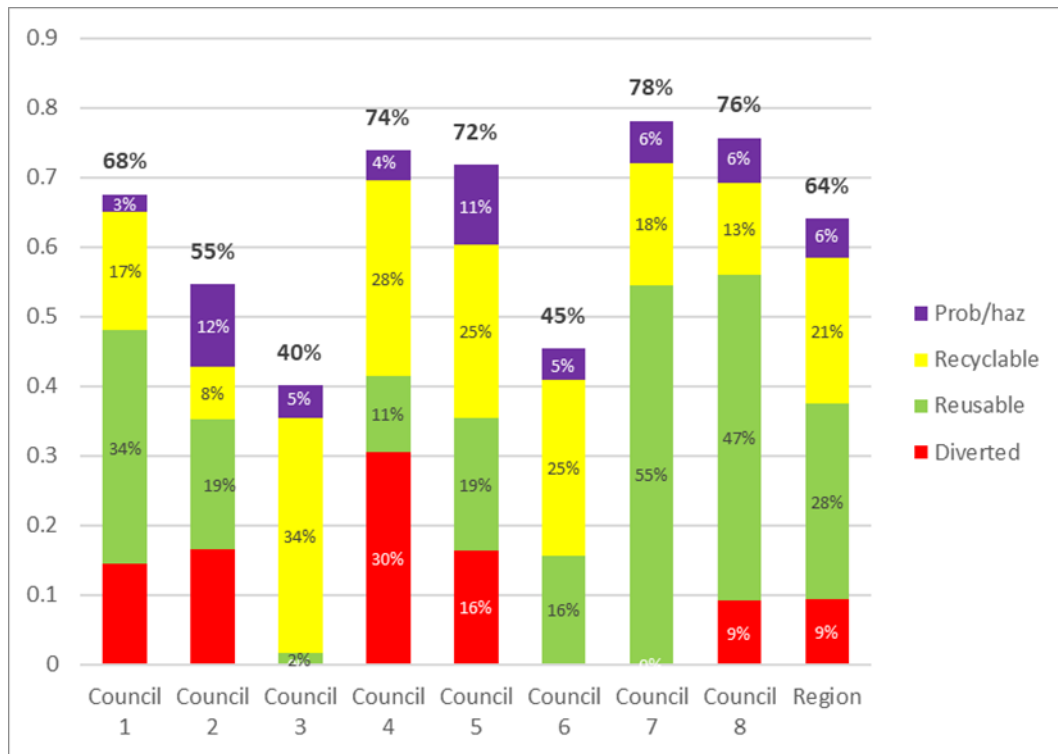


The main opportunities to divert material from landfill for both SUDs and MUDs was furniture reuse, wood reuse, textile reuse and plastic and e-waste recycling. SUDs had more plastic, garden organics and wood in clean-up piles for recycling and MUDs had more paper and cardboard, e-waste, furniture, textiles, white goods and electrical in clean-up piles

Figure 24 shows the potential landfill diversion per council. For the SSROC councils audited, only councils with dedicated services (separate trucks) removing discrete or specific materials such as mattresses or metals were considered to be ‘recycling’ these items. If a separate truck collects all material together and the material is potentially recovered at the facility, it was considered out of the scope of these audits to determine the percentage currently diverted. Therefore, no diversion was applied to these councils. Such an investigation requires a separate analysis and stakeholder consultation with both collection contractors and re-processors.

The average regional potential diversion was 64%, with three councils likely diverting less than the average regional percentage, ranging from 40 to 55% while the remainder likely to divert more, with potential diversion ranging from 68–78%.

Figure 24: Potential landfill diversion by council



5. CONFIDENCE INTERVALS

There is no single calculation that will measure the statistical accuracy of the audit design. However, certain key measures do indicate the level of accuracy attained in this audit. The measurement achieved in this audit indicates reasonable accuracy has been attained to reach a 90% confidence level and confirms the clean-up pile sample size. The 90% confidence interval for each material category was calculated using the standard deviation of the individual observations, which is a measure of variability. These confidence intervals display the lower and upper ranges within the true value of the estimate. The confidence intervals for larger categories of materials were relatively small, as would be expected.

5.1 Confidence intervals for weight

Table 23 shows the average weight of materials in the clean-up piles. The estimated total weight of an average clean-up pile in this collection from all participating SSROC councils was 152.35 kg. The 90% confidence interval for each material category was calculated using the standard deviation of the individual observations, which is a measure of variability. These confidence intervals display the lower and upper values within which the true value of the estimate may fall. The confidence intervals for larger categories of materials, for example, furniture, were relatively small, as would be expected. However, the confidence intervals for garden organics and wood were relatively wide. Overall, the confidence interval was 12.99, which is 8% of the overall sample size.

Table 23: Aggregated weights with confidence intervals

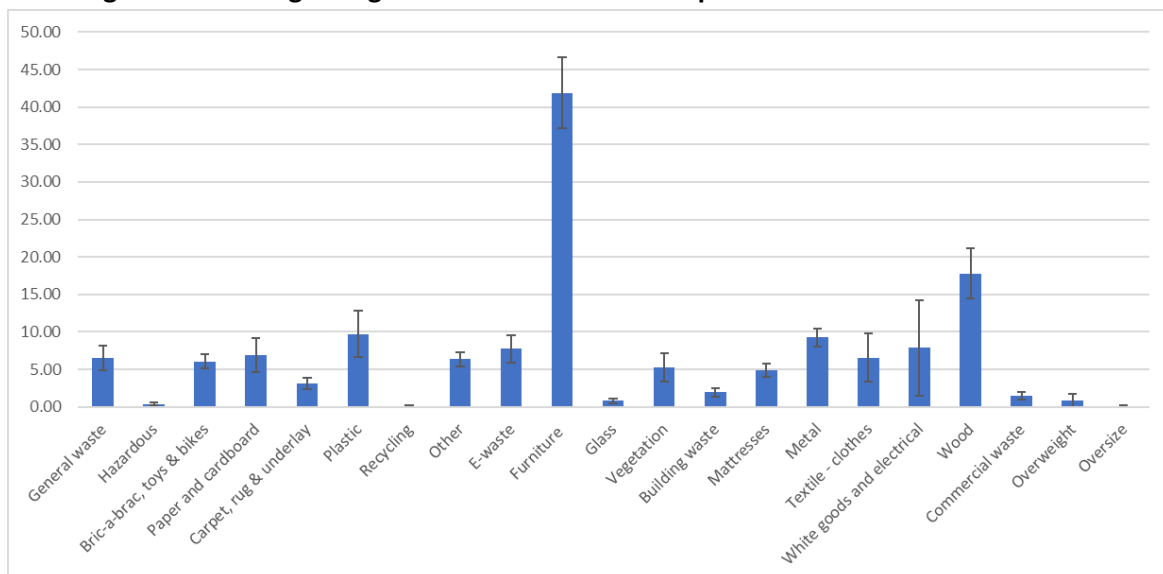
Material	Mean	Interval	Lower bound	Upper bound
Building	3.45	1.68	1.76	5.13
General waste	6.48	1.65	4.83	8.13
Hazardous	0.37	0.19	0.18	0.56
Bric-a-brac, toys and bikes	6.03	0.96	5.08	6.99
Paper and cardboard	6.86	2.26	4.60	9.12
Carpet, rug and underlay	3.14	0.79	2.35	3.93
Plastic	9.74	3.07	6.67	12.81
Recycling	0.07	0.09	-0.02	0.16
Other	6.35	0.95	5.40	7.30
E-waste	7.75	1.81	5.94	9.57
Furniture	41.91	4.72	37.18	46.63
Glass	0.82	0.33	0.49	1.15
Garden organics	5.24	1.91	3.33	7.15
Building waste	1.94	0.59	1.35	2.53
Mattresses	4.92	0.86	4.06	5.78
Metal	9.27	1.17	8.10	10.44
Textile – clothes	6.55	3.23	3.32	9.78
White goods and electrical	7.88	6.40	1.48	14.28
Wood	17.76	3.35	14.41	21.11
Commercial waste	1.45	0.51	0.94	1.97
Overweight	0.88	0.91	-0.03	1.78
Oversize	0.09	0.08	0.01	0.17
Total	152.35	12.99	139.36	165.35

Notes:

- 1: Average weight of this material category among sample of n=698 individual clean-ups
- 2: 90% confidence interval for this estimate for this sample size
- 3 & 4: Lower and upper bounds, i.e. there is a 90% probability that the true value of the estimate lies between these two values

Figure 25 below displays average weights of materials with 90% confidence intervals and reinforces that the confidence intervals are quite narrow for the majority of these materials.

Figure 25: Average weights of materials in clean-ups with 90% confidence intervals



5.2 Confidence intervals for volume

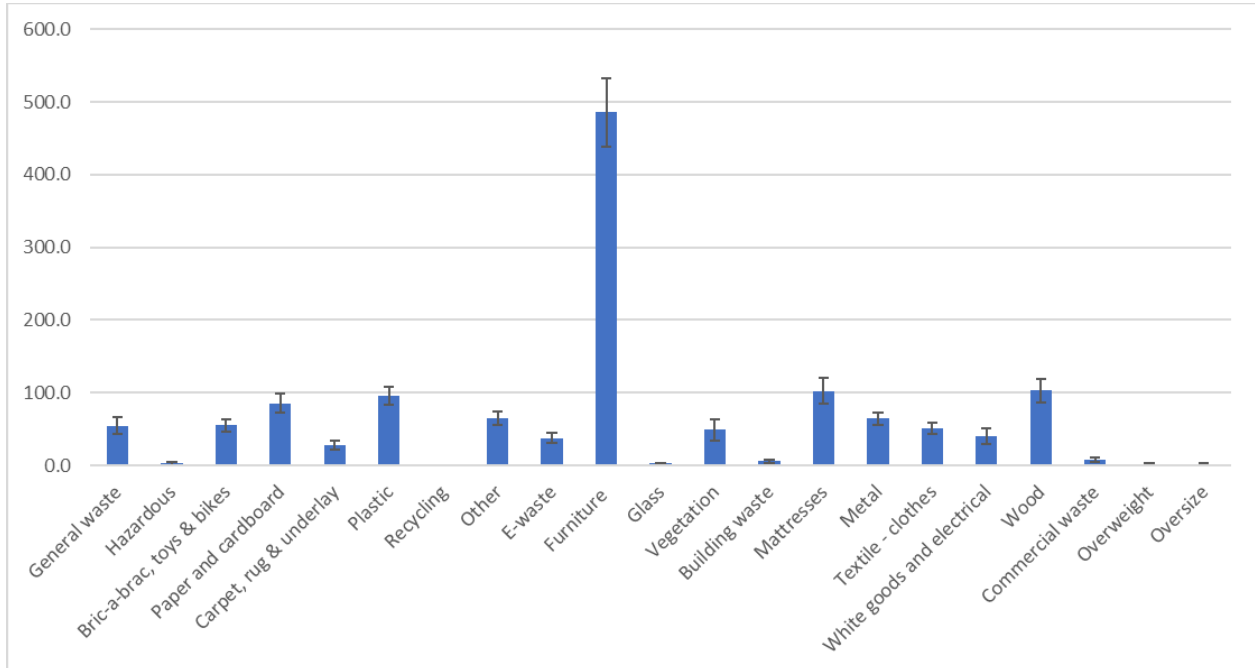
Table 24 shows the average volume of materials in clean-up piles. The estimated total volume of an average clean-up pile in this collection from all participating SSROC councils was 1,393 litres. The 90% confidence interval for each material category was calculated using the standard deviation of the individual observations, which is a measure of variability. These confidence intervals display the lower and upper values within which the true value of the estimate may fall. The confidence intervals for larger categories of materials were relatively small, as would be expected. However, the confidence intervals for garden organics, 'other' and wood were relatively wide. Overall, the confidence interval was 89.6, which is 6% of the overall sample size.

Table 24: Aggregated volume confidence intervals

Material	Mean	Interval	Lower bound	Upper bound
General waste	54.2	11.6	42.6	65.8
Hazardous	2.5	2.2	0.3	4.7
Bric-a-brac, toys and bikes	55.0	9.0	46.1	64.0
Paper and cardboard	85.1	12.9	72.2	98.0
Carpet, rug and underlay	28.3	5.9	22.3	34.2
Plastic	95.4	12.7	82.7	108.1
Recycling	0.4	0.4	0.1	0.8
Other	65.1	9.5	55.6	74.5
E-waste	37.8	6.7	31.1	44.5
Furniture	485.5	46.5	439.0	532.0
Glass	2.4	1.0	1.4	3.4
Garden organics	48.9	14.7	34.2	63.7
Building waste	5.8	2.4	3.4	8.2
Mattresses	102.3	17.5	84.8	119.8
Metal	64.5	8.2	56.3	72.7
Textile – clothes	50.5	7.6	42.9	58.1
White goods and electrical	39.6	10.9	28.8	50.5
Wood	102.7	16.7	86.1	119.4
Commercial waste	7.4	3.0	4.4	10.4
Overweight	1.6	1.4	0.1	3.0
Oversize	1.2	1.3	-0.1	2.5
Total	1393.0	89.6	1303.4	1482.5

Figure 26 below shows relatively narrow confidence intervals, indicating the estimates of percentages are accurate.

Figure 26: Average volumes of materials in clean-ups with 90% confidence intervals



In summary:

- The overall average weight of clean-ups was 152 kg, with a 90% confidence interval of ±13 kg, a confidence interval which is just 8% the size of the overall measure, indicating reasonable accuracy and justifying the sample size.
- The overall average volume of clean-ups was 1.393 litres, with a 90% confidence interval of ±90 litres, a confidence interval which is 6% the size of the overall measure, again indicating reasonable accuracy and justifying the sample size.

Overall, these measures indicate that the methodology and sample size for this audit was appropriate and had yielded an acceptably accurate result. Particularly, these aggregated results for all councils show very narrow confidence intervals due to the similar results across councils and the large overall sample size.

6. KEY FINDINGS

Clean-up piles audited:

- The audit covered 698 clean-up piles: 651 from single dwellings (SUDs) and 47 from multi-unit dwellings (MUDs).
- The total volume of clean-up piles placed outside households was 1,438,643 litres (1,439m³) and the subsequent overall audited volume was 932,726 litres (932.7 m³). The total weight audited was 101.5 tonnes.
- The total weight and volume of the clean-up piles audited (excluding air space) were higher in 2014, particularly at MUDs. This was expected considering the larger sampling size in 2014.
- The total pile size (including air space), however, was higher in 2023 than the 2014 audit, except for the MUDs, which indicates that the 2023 piles may not be as compact as the 2014 piles.

Average overall size

- The average overall amount of materials presented was 2.06 m³ per pile. SUDs averaged 2.06m³ and MUD blocks 1.72 m³.
- The average volume of items in the pile (excluding air space) was 1,336 litres, averaging 1,279 litres for SUDs and 2,134 litres for MUD blocks. This is almost twice as much as the clean-up pile generated in 2014 overall and for both dwelling types. Volume per household ranges from 383 litres to 2,104 litres for SUDs and 37 litres to 532 litres for MUDs.
- The average pile size (including air space) is 60% higher in 2023 compared to 2014, which is more prevalent at SUDs.

Average weight

- The average clean-up weight per pile was 146 kg, which is double the amount observed in the 2014 audit. SUDs averaged 144 kg and MUD blocks averaged 172 kg,
- The average clean-up weight per household was 144 kg for SUDs and 12 kg for MUDs, which is also twice as much as the 2014 audit. Overall, the average weight per household increased by almost three-fold in 2023 compared to the 2014 level, i.e., from 27 kg to 78 kg.
- The average weight per household ranged from 60 kg to 242 kg for SUDs and from 4 kg to 43 kg for MUDs.

Clean-up pile size – The most common clean-up size was between 0 to 1m³ for SUDs, followed by clean-up piles that were larger than 3m³. MUD blocks presented larger piles, as often multiple households contribute to each pile, with the most common size between 1m³ and 2m³.

Overall composition – The largest component of clean-up waste was furniture (29% by weight and 36% by volume) of all clean-up material presented.

- **By weight:** The largest components were furniture (28.8%), wood (12.2%), plastic (6.7%), metal (6.4%), white goods and electrical (5.4%) and e-waste (5.3%). The remaining materials had proportions of less than 5%.
 - About 58% of the waste in 2023 was recyclable or potentially reusable, which was higher than in 2014 (34%).

- Problematic waste including e-waste, fuels/solvents/chemicals, gas bottles, fluorescent lights, paint and tyres represented 6%, which is lower than in the 2014 audit (8.5%).
- Building waste also decreased in 2023 to 2% compared with 11% in 2014.
- The remainder of the clean-up waste (34%) was suitable for landfill only, which is lower than the previous audit of 47%.
- Garden organics recorded a significant decrease of 8.2% or two-thirds of the 2014 level.
- The proportion of wood, e-waste, other waste, mattresses, building waste, glass, hazardous materials and recycling also decreased in 2023, while plastic, metal, white goods and electrical, paper and cardboard, textiles, general waste, bric-a-brac, toys and bikes, carpets, rugs and underlay, commercial waste, overweight and oversized materials increased during the period from 2014 to 2023.
- **By volume:** The largest components were furniture (36.3%), wood and mattresses (both at 7.7%), plastics (7.1%) and paper and cardboard (6.4%). The remaining materials had proportions of less than 5%.
 - Approximately 57% of the waste's volume was either recyclable or reusable, which was higher than the 2014 audit (35%).
 - Problematic waste was comparable in the 2014 and 2023 audits, at 4% and 3% by volume, respectively.
 - Building waste accounted for 1% in 2023, which is significantly lower than in 2014 (6%).
 - The remaining materials (39%) presented in the 2023 clean-up piles were suitable for landfill disposal only, which is lower than in the 2014 audit at 55%.
 - Garden organics also decreased significantly (by volume) in 2023 by 8.5%. Mattresses also decreased by 2.4%.
 - Wood, plastic, e-waste, other waste, building waste, glass, hazardous materials, and recycling also decreased in 2023. Metal, white goods and electrical, paper and cardboard, textile, general waste, bric-a-brac, toys and bikes, commercial waste, overweight and oversized materials recorded increases, in varying degrees, from the 2014 level. Carpet, rugs and underlay remained the same in both audits at 2.1%.
- **By count:** The largest contributors were wooden furniture (673), which is 24.7% of the total number of items counted. This was followed by composite furniture (538 at 19.7%), metal furniture (216 at 7.9%), small household appliances (193 at 7.1%), mattresses (137 at 5%), plastic furniture (136 at 5%) and sofas, sofa beds, lounges and chairs (136 at 5%). The remaining materials had proportions of less than 5%.

Composition SUDs: The largest contributors are:

- By weight – furniture (28.0%), wood (12.8%), plastic (7.0%), scrap metal (6.6%) and white goods and electrical (5.4%). The remaining materials had proportions of less than 5%.
- By volume – furniture (35.8%), wood, (8.0%), mattresses (7.7%), plastic (7.3%), paper and cardboard (5.9%), scrap metal (5.1%) and other materials (5.0%). The remaining materials had proportions of less than 5%.
- By count – wooden furniture (597 at 24.5%), composite furniture (495 at 20.3%), metal furniture (190 at 7.8%), small household appliances (167 at 6.9%), plastic furniture (131 at 5.4%) and mattresses (121 at 5.0%). The remaining materials have proportions of less than 5%.

Composition MUDs: The largest contributors are:

- By weight – furniture (38.3%), e-waste (10.5%), paper and cardboard (7.2%), bric-a-brac, toys and bikes (6.5%), wood (5.9%) and white-goods and electrical (5.1%). The remaining materials had proportions of less than 5%.
- By volume – furniture (40.5%), paper and cardboard (10.1%), mattresses (7.1%), plastic (5.5%) and e-waste (5.2%). The remaining materials were less than 5% in composition.
- By count – wooden furniture (76 at 25.8%), composite furniture (43 at 14.6%), metal furniture and small household appliances (both 26 at 8.8%), fan/heater (24 at 8.1%), sofas, sofa beds, lounge chairs (21 at 7.1%) and mattresses and computer/TVs (both 16 at 5.4%). The remaining materials had proportions of less than 5%.

Unaccepted materials

- **By weight:** The overall unaccepted material was 12.6% of the clean-up, ranging from 6.3% to 27.5%. SUDs and MUDs presented comparable amounts of unaccepted material at 13.3% and 13.0%, respectively.
- **By volume:** The overall unaccepted material was 10.6% of the clean-up, ranging from 2.6% to 22.8% across councils. By volume, MUDs presented a higher amount of unaccepted materials at 14.1% than SUDs (10.4%).
- Bagged household waste, garden organics (larger than 100mm) and treated timber were the three most common unaccepted materials.
- The 2023 audit recorded more unaccepted materials when compared with the 2014 audit.

Problematic wastes – specifically e-waste, paint, fuels/solvents/chemicals, tyres, gas bottles and fluorescent lights:

- 5.6% by weight, 5.2% at SUDs and 11.2% at MUDs
- 3.0% by volume, 2.7% at SUDs and 5.2% at MUDs.

Currently recovered: Currently, 9% of clean-up waste is diverted. This is lower than the 2014 audit at 16% and consisted of mattresses, garden organics, metals, white goods and e-waste by various councils. The decrease can be attributed to more reusable and recyclable materials found in the piles which are potentially suitable for diversion. Current diversion is also 9% at both MUDs and SUDs, with the same pattern observed, i.e. a decrease in actual diversion by 6.4% and 4.6%, respectively.

Potential recovery: Potential landfill diversion increased by 20.8% in 2023 compared with the 2014 level, from 43.3% in 2014 to 64.1% in 2023. In 2023, an extra 49% could be theoretically recovered (33% potentially via reuse and 16% via recycling), which is higher than the 2014 audit of 22% (13% potentially reusable and 9% potentially recyclable). Problematic and hazardous waste (6%) including e-waste, fuels/solvents/chemicals, gas bottles, fluorescent lights, paint and tyres could also be recovered through alternative pathways. A total of 55% of clean-up waste can be potentially diverted from landfill. Overall, reusable furniture presents the largest landfill diversion opportunity at 24%, followed by wood (12%), textiles, e-waste and recyclable paper and cardboard at 4% each.

SUDs have a possible further diversion of 56%, while MUDs have 49% possible diversion. The main opportunities for both SUDs and MUDs are furniture reuse, wood reuse, textile reuse and plastic and e-waste recycling. SUDs had more plastic, garden organics and wood in clean-up piles for recycling,

and MUDs had more paper and cardboard, e-waste, furniture, textiles and white goods and electrical in clean-up piles. These materials should be considered if recovery options are made available.

Most councils discourage materials currently recycled through the three-bin kerbside waste system, however quantities of paper and cardboard and garden organics were seen across the board in the clean-up piles.

Confidence intervals – The weight-based 90% confidence interval is ± 13 per clean-up, which is 8% the size of the overall measure. For volume, the 90% confidence interval is ± 89 litres, which is 6% the size of the overall measure. These confidence intervals indicate an acceptably accurate result.

7. RECOMMENDATIONS

APC makes the following recommendations as a result of this audit:

1. Continue to inform and educate residents about the proper use of services, with particular focus on oversized garden organics, treated timber, and e-waste, where these items are not accepted in the clean-up and bagged household waste.
2. Continue to educate residents about the how to safely and responsibly dispose of hazardous/problematic waste, particularly e-waste, paint, fuels/solvents/chemicals, tyres, gas bottles and fluorescent lights.
3. Encourage residents to optimise the use of the kerbside bin services to minimise the disposal of general waste, recyclable paper/cardboard and containers and garden organics in the clean-up piles.
4. Encourage residents to drop bulky cardboard items to community recycling centres (CRCs). Dedicated separated collection systems in high-density high rise buildings is an option under the right circumstances.
5. Explore opportunities to engage a social enterprise or charity to collect reusable furniture and other items (including textiles) for sale or distribution as a reuse initiative.
6. Continue to promote recycling options available for white goods, metals, e-waste, mattresses and garden organics.

Appendix A Final data collection sheet

Council:		Address						Weather: Wet / Fine			
Date _____		Pic						Page count _____			
Overall volume (L) _____			SD or MUD (circle)				MUD-No units _____				
Material	Count	Reusable		Recyclable		Landfill		Problematic		Building	
	No.	Wt (kg)	Vol (L)	Wt (kg)	Vol (L)	Wt (kg)	Vol (L)	Wt (kg)	Vol (L)	Wt (kg)	Vol (L)
BAGGED household waste											
LOOSE household waste											
Asbestos											
Batteries - car											
Bike / exercise bike											
Bric-a-brac											
Barbecue											
Cardboard											
Carpet - mat, rug, underlay <1.5m											
Commingled recyclable containers											
Composite mostly-Plastic											
Composite other											
E-waste: computer/TVs											
E-waste: microwave											
E-waste: fan/heater											
E-waste: vacuum cleaner											
E-waste: small household appliances											
E-waste: other - tools / garden with cord / battery											
Furniture: Wooden											
Furniture: Plastic											
Furniture: Metal											
Furniture: Composite											
Children's car seat/booster											
Fuels/solvents/chemicals											
Gas bottles/ extinguishers											
Glass - other											
Garden organics (tree branches <100mm diameter)											
Garden organics: tree branches >100mm diameter)											
Insulation											
Lights - fluoro											
Lights - fittings /lamps											
Luggage											
Mattresses											
Motor oil											
Paints											
Paper/mags/books											
Plasterboard											
Plastic other											
Pram / stroller											
Polystyrene											
PVC pipe etc											
Rubble											
Rubber and foam											

Council:		Address						Weather: Wet / Fine			
Date _____		Pic								Page count ____	
Overall volume (L) _____				SD or MUD (circle)				MUD-No units _____			
Material	Count	Reusable		Recyclable		Landfill		Problematic		Building	
	No.	Wt (kg)	Vol (L)	Wt (kg)	Vol (L)	Wt (kg)	Vol (L)	Wt (kg)	Vol (L)	Wt (kg)	Vol (L)
Scrap metal											
Scrap metal - car parts											
Smoke detectors											
Sofa, sofabed, lounge chair											
Sporting/camping equipment											
Textiles - clothes											
Textiles - household furnishings											
Toys mainly plastic											
Toys other											
Tyres											
White goods: air conditioner											
White goods: fridge/freezer											
White goods: dishwasher											
White goods: washing machine / dryer											
Wood/timber treated											
Wood/timber untreated											
Other incl. suspected commercial waste (specify)											
Overweight items (>50kg) (specify) - count as appropriate											
Oversize items (>1.5m) (specify) - count as appropriate											
Comments:											

Appendix B Material definitions

CATEGORY	DEFINITION
Bagged household waste	garbage bags of waste, nappies, does not fit any other category
Loose household waste	loose waste that does not fit any other category - not in bags
Asbestos	any asbestos containing products or building materials
Batteries - car	large batteries used in vehicles or other machinery
Bike / exercise bike	push bike, child 3-wheeler, exercise bike
Bric-a-brac	incl China, glassware & ornaments
Barbecue	any size mostly metal
Cardboard	dry cardboard boxes, cardboard rolls, clean dry cardboard, corrugation cardboard
Carpet - mat, rug, underlay <1.5m	rolls of carpet, carpet off-cuts, carpet tiles, underlay, rugs, mats
Commingled recyclable containers	any empty plastic, glass, metal container other than paint
Composite - mostly plastic	plastic where the weight of the plastic is est. to be greater than the other material
Composite other	any item/s made up of many or several materials not described elsewhere e.g., trampoline
E-waste-computer/TVs	computer, TV (flat & CRT), monitors, printers
E-waste: microwave	microwave
E-waste: fan/heater	any fan or heater indoor with cord NOT ceiling fan or outdoor heater gas heater
E-waste: vacuum cleaner	any type
E-waste - small household appliances / tools	with a cord/battery e.g. kettle, toaster, air fryers, stereo, phones, DVD, video, radio, hairdryer
E waste other	drill / garden blowers - anything that doesn't fit into the above categories
Furniture - wood	wardrobes, varnished furniture, wooden chairs, bed frames, cupboards, tables, desk
Furniture -plastic	outdoor tables, chairs, plastic Children's tables and chairs
Furniture- metal	table/chair/ bed/ coffee table, frames, desk
Furniture - composite	combination of materials - wood, plastic, metal
Children's car seat/booster	any size
Fuels/solvents/chemical	anything in a container that appears to contain a liquid other than oil
Gas bottles/extinguishers	gas bottles or fire extinguishers
Glass - other	glassware, pyrex, mirror, plate glass, window glass, security glass, shower screen, windscreens
Green / garden waste <100mm diameter	prunings <100mm diameter
Green / garden waste >100mm diameter	tree branches >100mm diameter
Insulation	roofing insulation - batts
Lights - fluoro	fluoro tubes, compact fluoro lamps (CFLs)
Lights - fittings /lamps	light fittings, reading, desk or floor lights
Luggage - cloth/board	bags, luggage, briefcases, golf bags
Mattresses	all sizes, cloth or latex, bases and tops, with metal or timber components excluding futons (see textiles)
Motor oil	motor oil
Paints	tins with lids - if empty tin put in scrap metal
Paper/mags/books	paper/mags/books
Plasterboard	offcuts or sheets
Plastic other	film, shrink wrap, plastic toys, shower curtain, buckets, crates, tubs, plant pots, storage containers, video/CD cases plastic car parts - bumpers etc.
Pram / stroller	any size
Polystyrene	expanded preformed foam, blocks or beads (beanbags)

CATEGORY	DEFINITION
PVC pipe etc	garden hose, plumbing pipe & fittings, electrical conduit
Rubble	rock, dirt, soil, stones, soil, bags concrete, tiles, bricks, grout, inert material
Rubber / foam	mats, foam rubber, foam mattresses
Scrap metal	any steel, aluminium, parts, copper, brass not otherwise specified, empty paint tins
Scrap metal - car parts	metal car parts
Smoke detectors	smoke detector
Sofa, sofa bed, lounge chair	chairs, lounges covered with fabric, leather, vinyl
Sporting/camping equipment	skis, tennis racquet, baseball/cricket bats, hockey sticks, tents /pegs, poles etc.
Textiles-clothes	clothes, belts, hats
Textiles-household furnishings	rags, rolls of fabric, fabric off-cuts, blankets, doonas, pillows, futon, sheets, towels, curtains
Toys mainly plastic	plastic bikes, play items
Toys other	miscellaneous toys
Tyres	tyres, inner tubes
White goods: air conditioner	air conditioner
White goods: fridge/freezer	fridge, freezer
White goods: dishwasher	dishwasher
White goods: washing machine/dryer	washing machine, dryer
Wood/timber treated	including MDF, chip/particleboard i.e. kitchen carcass/benchtops, plywood, treated pallets, koppers logs, painted/stained/lacquered timber, doors
Wood/timber untreated	raw palings, framing, timber offcuts, posts, pallets
Other incl. commercial waste	Items which do not fit in any category
Overweight items (>50kg)	Items over 50kg in weight
Oversize items (>1.5m)	Items over 1.5m in size

Appendix C Example of resident letter



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18th October, 2021

ABN: 96 077 504 226

December 2022

To The Resident: Dear Sir/Madam,

Subject: Kerbside Clean Audit

Your Council is currently conducting a kerbside clean up waste audit in order to assess the performance of the existing service and to identify the need for residents to be provided with additional services or information.

Council is auditing 150 randomly selected piles across the council area before the collection service removes it. We have engaged APrince Consulting Pty Limited (APC), a waste auditing company to undertake these audits. APC developed the method that Council is using under state government guidelines to provide robust and reliable data. Individual property addresses are not reported at any point in the audit process, and all information gathered is of a purely statistical nature used to determine general household clean up waste trends.

APC waste consultants have collected and sorted waste from over 100,000 households nationally over the past twenty-five years. We have confidence in their staff, approach and ability to deliver high quality data.

Should you be concerned about privacy please consider the following points.

- When sorted and recorded, all collected materials are either disposed to landfill or recycled as per the normal collection service.
- In the course of similar audits over 25 years there has never been a breach of privacy.
- All staff are required to sign a confidentiality agreement which is legally binding.

We apologise for any inconvenience this project may cause to you or your household.

For more information please contact the contractor undertaking the collection and sorting:

A.Prince Consulting
Phone: 02 9907 0994
Email: admin@aprice.com.au

Yours Faithfully,

A handwritten signature in blue ink that reads 'Anne Prince'.

Anne Prince
Director

Appendix D Agreed material categories with Consolidation Category

Material	Consolidated material category
Bagged household waste	General waste
Loose household waste	General waste
Asbestos	Hazardous
Batteries - car	Hazardous
Bike / exercise bike	Bric-a-brac, toys and bikes
Bric-a-brac	Bric-a-brac, toys and bikes
Barbecue	Scrap metal
Cardboard	Paper and cardboard
Carpet - mat, rug, underlay <1.5m	Carpet, rug and underlay
Commingled recyclable containers	Plastic - various
Composite - mostly plastic	Plastic - various
Composite other	Other
E-waste: computer/TVs	E-waste
E-waste: microwave	E-waste
E-waste: fan/heater	E-waste
E-waste: vacuum cleaner	E-waste
E-waste: small household appliances	E-waste
E-waste: other - tools / garden with cord / battery	E-waste
Furniture: Wooden	Furniture - wood/plastic/metal/composite
Furniture: Plastic	Furniture - wood/plastic/metal/composite
Furniture: Metal	Furniture - wood/plastic/metal/composite
Furniture: Composite	Furniture - wood/plastic/metal/composite
Children's car seat/booster	Furniture - wood/plastic/metal/composite
Fuels/solvents/chemicals	Hazardous
Gas bottles/ extinguishers	Hazardous
Glass - other	Glass
Garden organics (tree branches <100mm diameter)	Garden organics
Garden organics: tree branches >100mm diameter)	Garden organics
Insulation	Building waste
Lights - fluoro	Hazardous
Lights - fittings /lamps	Other
Luggage	Other
Mattresses	Mattresses
Motor oil	Hazardous
Paints	Hazardous
Paper/mags/books	Paper/cardboard
Plasterboard	Plastic
Plastic other	Plastic
Pram / stroller	Plastic
Polystyrene	Plastic
PVC pipe etc	Plastic
Rubble	Building waste
Rubber and foam	Other
Scrap metal	Metal
Scrap metal - car parts	Metal

Material	Consolidated material category
Smoke detectors	Hazardous
Sofa, sofa bed, lounge chair	Furniture - wood/plastic/metal/composite
Sporting / camping equipment	Other
Textiles - clothes	Textiles
Textiles - household furnishings	Textiles
Toys mainly plastic	Bric-a-brac, toys and bikes
Toys other	Bric-a-brac, toys and bikes
Tyres	Hazardous
White goods: air conditioner	White goods
White goods: fridge/freezer	White goods
White goods: dishwasher	White goods
White goods: washing machine / dryer	White goods
Wood/timber treated	Wood
Wood/timber untreated	Wood
Other incl. suspected commercial waste (specify)	Commercial waste
Overweight items (>50kg) (specify) -	Overweight
Oversize items (>1.5m) (specify)	Oversize

Appendix E Common materials present in the clean-up piles

A. By weight

Table 25: Most common materials found in clean-up piles by weight and housing type

SUD	Council 1	Council 2	Council 3	Council 4	Council 5	Council 6	Council 7	Council 8
1	Plastic; 23%	Furniture - 47%	Furniture - 23%	White goods and electrical; 26%	Furniture - 26%	Furniture; 33%	Furniture - 46%	Furniture - 27%
2	Furniture - 12%	Wood; 22%	Wood; 19. %	Furniture - 26%	Paper and cardboard; 16%	Wood; 12%	Plastic; 6%	Wood; 15%
3	Garden organics; 9%	Mattresses; 5%	Garden organics; 11%	Paper and cardboard; 10%	Plastic; 12%	General waste; 9%	Wood; 6%	Metal; 9%
4	Wood; 9%	Paper and cardboard; 5%	Metal; 9%	Wood; 8%	E-waste; 10%	Plastic; 8%	E-waste; 5%	Other; 7%
5	Paper and cardboard; 8%	E-waste; 4%	Other; 7%	Textile - clothes; 6%	White goods and electrical; 8%	Bric-a-brac, toys & bikes; 6%	Paper and cardboard; 5%	Plastic; 6%
MUD	Council 1	Council 2	Council 3	Council 4	Council 5	Council 6	Council 7	Council 8
1	Furniture - 40%	Furniture - 53%	Furniture - 23%	Furniture - 49%	Furniture - 29%	Furniture - 41%	Mattresses; 35%	Furniture - 54%
2	Bric-a-brac, toys & bikes; 13%	E-waste; 23%	Paper and cardboard; 19%	E-waste; 14%	E-waste; 16%	Bric-a-brac, toys & bikes; 10%	Furniture - 29%	E-waste; 22%
3	Wood; 10%	Wood; 6%	Metal; 9%	Textile - clothes; 8%	Wood; 13%	E-waste; 8%	Paper and cardboard; 10%	Commercial waste; 13%
4	Textile - clothes; 6.5%	White goods and electrical; 4%	White goods and electrical; 9%	White goods and electrical; 6%	White goods and electrical; 9%	Paper and cardboard; 7%	Textile - clothes; 8%	Plastic; 5%
5	Mattresses; 6%	Plastic; 2.7%	E-waste; 7%	Bric-a-brac, toys & bikes; 6%	Other; 8%	Textile - clothes; 5%	Metal; 7%	Other; 4%

B. By volume**Table 26: Most common materials found in clean-up piles by volume and housing type**

SUD	Council 1	Council 2	Council 3	Council 4	Council 5	Council 6	Council 7	Council 8
1	Furniture 26.09%	Furniture 47.13%	Furniture 28.64%	Furniture 39.01%	Furniture 39.95%	Furniture 40.83%	Furniture 43.37%	Furniture 33.36%
2	Garden organics; 15.73%	Mattresses; 13.36%	Wood; 14.50%	Mattresses; 9.19%	Paper and cardboard; 11.82%	Mattresses; 10.50%	Plastic; 8.37%	Plastic; 9.41%
3	Wood; 10.71%	Wood; 11.32%	Mattresses; 9.89%	Wood; 8.18%	White goods and electrical; 7.45%	General waste; 6.75%	Mattresses; 7.05%	Wood; 8.07%
4	Plastic; 9.08%	Paper and cardboard; 9.01%	Garden organics; 9.51%	Paper and cardboard; 7.56%	Other; 6.03%	Paper and cardboard; 6.32%	White goods and electrical; 6.82%	Metal; 6.56%
5	Paper and cardboard; 7.07%	Plastic; 4.51%	Other; 6.68%	Plastic; 6.15%	Plastic; 5.70%	Bric-a-brac, toys & bikes; 6.23%	Other; 5.22%	Other; 6.31%
MUD	Council 1	Council 2	Council 3	Council 4	Council 5	Council 6	Council 7	Council 8
1	Furniture 55.30%	Furniture 32.83%	Furniture 30.18%	Furniture 54.67%	Furniture; 30.33%	Furniture 47.75%	Mattresses; 46.71%	Furniture 61.87%
2	Mattresses; 12.69%	Garden organics; 16.57%	Paper and cardboard; 15.56%	Textile - clothes; 9.21%	Paper and cardboard; 14.46%	Paper and cardboard; 8.51%	Furniture 29.30%	Other; 14.39%
3	Paper and cardboard; 7.85%	E-waste; 14.77%	Plastic; 9.51%	Mattresses; 9.14%	Wood; 12.41%	Bric-a-brac, toys & bikes; 8.33%	Paper and cardboard; 15.33%	Plastic; 11.51%
4	Textile - clothes; 6.11%	Paper and cardboard; 7.46%	General waste; 7.87%	Bric-a-brac, toys & bikes; 6.85%	Other; 11.82%	Plastic; 5.72%	Plastic; 3.21%	E-waste; 6.47%
5	Wood; 5.32%	Bric-a-brac, toys & bikes; 5.59%	Metal; 7.68%	White goods and electrical; 6.09%	E-waste; 7.48%	Textile - clothes; 5.71%	Metal; 2.55%	General waste; 5.76%

Appendix F Audit data - All dwellings

Table 27: Composition by weight (kg) - all dwellings

Category	Council 1		Council 2		Council 3		Council 4		Council 5		Council 6		Council 7		Council 8		Region	
	WT	%	WT	%	WT	%	WT	%	WT	%	WT	%	WT	%	WT	%	WT	%
BAGGED household waste	397.0	6.2%	42.4	1.6%	372.3	2.7%	181.9	1.4%	81.8	1.6%	1263.3	6.9%	187.4	3.5%	1715.1	4.6%	4241.2	4.2%
LOOSE household waste	0.0	0.0%	0.0	0.0%	11.3	0.1%	0.0	0.0%	15.7	0.3%	182.0	1.0%	16.6	0.3%	58.0	0.2%	283.5	0.3%
Asbestos	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%
Batteries - car	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%
Bike / exercise bike	2.5	0.0%	4.2	0.2%	188.6	1.4%	52.5	0.4%	114.1	2.3%	79.0	0.4%	32.1	0.6%	417.0	1.1%	890.0	0.9%
Bric-a-brac	404.8	6.3%	34.7	1.3%	268.6	2.0%	46.5	0.4%	110.1	2.2%	934.8	5.1%	58.9	1.1%	923.4	2.5%	2781.8	2.7%
Barbecue	0.0	0.0%	0.0	0.0%	220.3	1.6%	48.0	0.4%	132.2	2.6%	55.6	0.3%	14.9	0.3%	1094.0	2.9%	1564.9	1.5%
Cardboard	421.6	6.6%	90.6	3.3%	463.8	3.4%	1129.9	8.7%	650.4	13.0%	454.9	2.5%	241.2	4.4%	810.9	2.2%	4263.2	4.2%
Carpet - mat, rug, underlay <1.5m	225.1	3.5%	41.4	1.5%	409.5	3.0%	294.1	2.3%	97.7	1.9%	277.7	1.5%	146.9	2.7%	697.3	1.9%	2189.7	2.2%
Commingled recyclable containers	0.0	0.0%	0.0	0.0%	3.7	0.0%	0.0	0.0%	0.0	0.0%	10.0	0.1%	0.0	0.0%	35.6	0.1%	49.3	0.0%
Composite mostly-Plastic	1.2	0.0%	12.8	0.5%	32.4	0.2%	3.6	0.0%	4.9	0.1%	194.2	1.1%	1.2	0.0%	297.3	0.8%	547.6	0.5%
Composite other	56.6	0.9%	16.8	0.6%	569.9	4.2%	36.2	0.3%	89.2	1.8%	182.0	1.0%	62.7	1.2%	1549.0	4.2%	2562.4	2.5%
E-waste: computer/TVs	8.3	0.1%	70.0	2.6%	133.1	1.0%	120.7	0.9%	140.8	2.8%	279.5	1.5%	47.7	0.9%	546.8	1.5%	1347.0	1.3%
E-waste: microwave	0.0	0.0%	0.0	0.0%	50.0	0.4%	171.0	1.3%	0.0	0.0%	128.9	0.7%	32.0	0.6%	308.9	0.8%	690.8	0.7%
E-waste: fan/heater	26.5	0.4%	169.2	6.2%	244.9	1.8%	23.4	0.2%	200.0	4.0%	43.1	0.2%	84.6	1.6%	827.5	2.2%	1619.2	1.6%
E-waste: vacuum cleaner	14.6	0.2%	7.5	0.3%	67.3	0.5%	10.7	0.1%	95.1	1.9%	123.9	0.7%	32.7	0.6%	134.4	0.4%	486.3	0.5%
E-waste: small household appliances	56.8	0.9%	38.5	1.4%	46.0	0.3%	85.3	0.7%	80.7	1.6%	95.5	0.5%	23.6	0.4%	192.2	0.5%	618.5	0.6%
E-waste: other - tools / garden with cord / battery	18.7	0.3%	11.2	0.4%	74.6	0.5%	162.9	1.3%	55.5	1.1%	136.2	0.7%	66.0	1.2%	126.1	0.3%	651.2	0.6%
Furniture: Wooden	402.5	6.3%	601.2	22.1%	1330.4	9.8%	1745.2	13.5%	498.5	9.9%	1984.7	10.9%	1114.3	20.5%	4500.6	12.1%	12177.2	12.0%
Furniture: Plastic	0.0	0.0%	23.3	0.9%	92.1	0.7%	7.5	0.1%	70.4	1.4%	128.8	0.7%	5.2	0.1%	180.2	0.5%	507.4	0.5%
Furniture: Metal	87.0	1.4%	20.5	0.8%	136.7	1.0%	627.4	4.8%	70.1	1.4%	438.6	2.4%	60.8	1.1%	849.9	2.3%	2291.0	2.3%

Category	Council 1		Council 2		Council 3		Council 4		Council 5		Council 6		Council 7		Council 8		Region	
	WT	%	WT	%	WT	%	WT	%	WT	%	WT	%	WT	%	WT	%	WT	%
Furniture: Composite	214.9	3.3%	296.9	10.9%	662.0	4.9%	482.4	3.7%	337.4	6.7%	2564.8	14.0%	873.4	16.1%	2743.9	7.4%	8175.7	8.1%
Children's car seat/booster	12.9	0.2%	0.0	0.0%	59.4	0.4%	6.1	0.0%	0.0	0.0%	71.9	0.4%	25.3	0.5%	735.0	2.0%	910.6	0.9%
Fuels/solvents/chemicals	0.5	0.0%	0.0	0.0%	3.7	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	43.0	0.1%	47.2	0.0%
Gas bottles/extinguishers	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	9.0	0.2%	5.3	0.0%	14.3	0.0%
Glass - other	29.6	0.5%	3.3	0.1%	45.6	0.3%	97.4	0.8%	13.5	0.3%	90.6	0.5%	33.0	0.6%	260.7	0.7%	573.6	0.6%
Garden organics excl. tree branches (<100mmD)	349.4	5.4%	3.3	0.1%	454.3	3.3%	85.6	0.7%	1.7	0.0%	282.6	1.5%	0.4	0.0%	600.0	1.6%	1777.1	1.7%
Garden organics tree branches(>100mmD)	108.6	1.7%	0.0	0.0%	929.8	6.8%	74.6	0.6%	0.0	0.0%	611.1	3.3%	0.0	0.0%	154.9	0.4%	1879.0	1.9%
Insulation	0.0	0.0%	0.0	0.0%	0.0	0.0%	33.2	0.3%	6.0	0.1%	0.5	0.0%	0.0	0.0%	34.7	0.1%	74.3	0.1%
Lights - fluoro	0.0	0.0%	0.0	0.0%	8.5	0.1%	0.0	0.0%	2.2	0.0%	0.7	0.0%	0.0	0.0%	0.9	0.0%	12.2	0.0%
Lights - fittings /lamps	4.9	0.1%	0.0	0.0%	36.4	0.3%	0.0	0.0%	0.0	0.0%	16.1	0.1%	75.6	1.4%	72.2	0.2%	205.1	0.2%
Luggage	34.3	0.5%	6.8	0.3%	103.9	0.8%	52.6	0.4%	144.0	2.9%	170.4	0.9%	26.8	0.5%	178.8	0.5%	717.7	0.7%
Mattresses	155.1	2.4%	100.0	3.7%	611.1	4.5%	359.8	2.8%	73.5	1.5%	948.4	5.2%	310.0	5.7%	875.0	2.4%	3432.9	3.4%
Motor oil	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	4.3	0.0%	4.3	0.0%
Paints	38.3	0.6%	25.2	0.9%	2.3	0.0%	0.0	0.0%	0.0	0.0%	4.7	0.0%	2.3	0.0%	46.3	0.1%	119.2	0.1%
Paper/mags/books	54.7	0.9%	0.0	0.0%	23.8	0.2%	38.0	0.3%	36.6	0.7%	122.0	0.7%	40.5	0.7%	210.0	0.6%	525.7	0.5%
Plasterboard	0.0	0.0%	0.0	0.0%	30.5	0.2%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.8	0.0%	107.0	0.3%	138.3	0.1%
Plastic other	1173.6	18.3%	60.9	2.2%	346.3	2.5%	624.8	4.8%	471.4	9.4%	1143.6	6.3%	305.2	5.6%	1422.5	3.8%	5548.2	5.5%
Pram / stroller	15.4	0.2%	21.7	0.8%	0.0	0.0%	0.8	0.0%	13.8	0.3%	14.9	0.1%	0.0	0.0%	26.5	0.1%	93.0	0.1%
Polystyrene	38.2	0.6%	0.0	0.0%	41.8	0.3%	7.5	0.1%	5.9	0.1%	18.1	0.1%	5.3	0.1%	474.2	1.3%	591.1	0.6%
PVC pipe etc	1.5	0.0%	0.0	0.0%	13.9	0.1%	0.0	0.0%	0.0	0.0%	0.8	0.0%	18.1	0.3%	74.7	0.2%	108.9	0.1%
Rubble	89.7	1.4%	23.0	0.8%	162.8	1.2%	42.1	0.3%	23.3	0.5%	126.5	0.7%	85.9	1.6%	590.1	1.6%	1143.3	1.1%
Rubber and foam	22.4	0.3%	10.8	0.4%	62.9	0.5%	45.9	0.4%	0.8	0.0%	20.3	0.1%	3.8	0.1%	244.4	0.7%	411.4	0.4%
Scrap metal	259.8	4.0%	49.9	1.8%	1005.4	7.4%	192.3	1.5%	147.6	2.9%	660.4	3.6%	234.0	4.3%	2015.1	5.4%	4564.6	4.5%
Scrap metal - car parts	13.2	0.2%	1.7	0.1%	61.4	0.5%	36.5	0.3%	29.4	0.6%	1.3	0.0%	4.3	0.1%	99.6	0.3%	247.3	0.2%
Smoke detectors	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%

Category	Council 1		Council 2		Council 3		Council 4		Council 5		Council 6		Council 7		Council 8		Region	
	WT	%	WT	%	WT	%	WT	%	WT	%	WT	%	WT	%	WT	%	WT	%
Sofa, sofasbed, lounge chair	427.2	6.7%	392.7	14.4%	879.6	6.5%	620.2	4.8%	347.9	6.9%	1027.4	5.6%	354.3	6.5%	1139.6	3.1%	5188.8	5.1%
Sporting / camping equipment	28.0	0.4%	0.0	0.0%	129.9	1.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	18.1	0.3%	359.7	1.0%	535.7	0.5%
Textiles: clothes	79.5	1.2%	2.4	0.1%	72.6	0.5%	18.6	0.1%	14.4	0.3%	150.4	0.8%	44.0	0.8%	281.1	0.8%	663.0	0.7%
Textiles: household furnishings	394.7	6.1%	32.9	1.2%	201.9	1.5%	726.4	5.6%	64.3	1.3%	517.7	2.8%	150.5	2.8%	1817.3	4.9%	3905.7	3.8%
Toys mainly plastic	22.8	0.4%	3.4	0.1%	55.3	0.4%	0.0	0.0%	3.9	0.1%	95.6	0.5%	2.2	0.0%	138.2	0.4%	321.4	0.3%
Toys other	9.4	0.1%	0.0	0.0%	23.0	0.2%	0.0	0.0%	14.4	0.3%	84.4	0.5%	2.9	0.1%	84.8	0.2%	218.8	0.2%
Tyres	0.0	0.0%	0.0	0.0%	16.5	0.1%	0.0	0.0%	0.0	0.0%	19.8	0.1%	25.5	0.5%	0.0	0.0%	61.7	0.1%
White goods: air conditioner	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	57.6	0.3%	0.0	0.0%	62.1	0.2%	119.7	0.1%
White goods: fridge/freezer	0.0	0.0%	44.0	1.6%	198.3	1.5%	88.1	0.7%	220.0	4.4%	143.7	0.8%	44.0	0.8%	395.7	1.1%	1133.8	1.1%
White goods: dishwasher	0.0	0.0%	0.0	0.0%	84.7	0.6%	0.0	0.0%	46.3	0.9%	0.0	0.0%	0.0	0.0%	46.3	0.1%	177.4	0.2%
White goods: washing machine/dryer	40.0	0.6%	26.8	1.0%	104.3	0.8%	3110.4	24.0%	153.4	3.1%	178.4	1.0%	26.8	0.5%	429.2	1.2%	4069.4	4.0%
Wood/timber treated	531.2	8.3%	411.7	15.1%	2023.2	14.9%	751.6	5.8%	327.8	6.5%	1313.8	7.2%	288.0	5.3%	3942.1	10.6%	9589.4	9.4%
Wood/timber untreated	51.7	0.8%	19.9	0.7%	357.7	2.6%	198.7	1.5%	4.9	0.1%	669.0	3.7%	26.6	0.5%	1480.5	4.0%	2808.9	2.8%
Other (specify) incl. suspected commercial waste	0.0	0.0%	0.0	0.0%	0.0	0.0%	62.6	0.5%	0.0	0.0%	128.7	0.7%	158.1	2.9%	665.2	1.8%	1014.6	1.0%
Overweight items (>50kg) (specify) - count as appropriate	99.3	1.5%	0.0	0.0%	66.3	0.5%	420.6	3.2%	0.0	0.0%	24.9	0.1%	0.0	0.0%	0.0	0.0%	611.0	0.6%
Oversize items (>1.5m) (specify) - count as appropriate	0.0	0.0%	0.0	0.0%	4.3	0.0%	41.9	0.3%	0.0	0.0%	16.1	0.1%	0.0	0.0%	0.0	0.0%	62.2	0.1%
Total	6423.88	100.0%	2721.82	100.0%	13597.57	100.0%	12965.42	100.0%	5011.51	100.0%	18289.63	100.0%	5423.40	100.0%	37125.18	100.0%	101558.4	100.0%

Table 28: Composition by weight (kg) by dwelling type

Category	Council 1			Council 2			Council 3			Council 4			Council 5		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
Bagged household waste	6.2%	6.2%	6.2%	2.4%	0.3%	1.6%	2.4%	5.6%	2.7%	1.4%	1.0%	1.4%	1.6%	1.6%	1.6%
Loose household waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.1%	0.0%	0.0%	0.0%	0.4%	0.0%	0.3%
Asbestos	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Batteries - car	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bike / exercise bike	0.0%	0.0%	0.0%	0.3%	0.0%	0.2%	1.5%	0.0%	1.4%	0.1%	5.8%	0.4%	2.8%	0.4%	2.3%
Bric-a-brac	4.9%	12.0%	6.3%	1.3%	1.3%	1.3%	2.0%	2.1%	2.0%	0.4%	0.0%	0.4%	2.0%	2.8%	2.2%
Barbecue	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	4.7%	1.6%	0.4%	0.0%	0.4%	3.4%	0.0%	2.6%
Cardboard	7.2%	3.8%	6.6%	4.5%	1.5%	3.3%	1.8%	18.6%	3.4%	9.2%	0.0%	8.7%	14.9%	6.0%	13.0%
Carpet - mat, rug, underlay <1.5m	3.3%	4.5%	3.5%	1.3%	1.9%	1.5%	3.0%	3.5%	3.0%	2.4%	0.0%	2.3%	2.5%	0.0%	1.9%
Commingled recyclable containers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Composite mostly-Plastic	0.0%	0.0%	0.0%	0.7%	0.1%	0.5%	0.2%	0.8%	0.2%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%
Composite other	1.0%	0.3%	0.9%	0.2%	1.3%	0.6%	4.6%	0.7%	4.2%	0.3%	0.0%	0.3%	1.5%	2.9%	1.8%
E-waste: computer/TVs	0.1%	0.2%	0.1%	0.0%	6.6%	2.6%	1.0%	0.9%	1.0%	0.6%	6.2%	0.9%	2.4%	4.4%	2.8%
E-waste: microwave	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.4%	1.2%	3.7%	1.3%	0.0%	0.0%	0.0%
E-waste: fan/heater	0.3%	0.8%	0.4%	0.7%	15.0%	6.2%	1.5%	4.9%	1.8%	0.1%	1.0%	0.2%	2.9%	8.0%	4.0%
E-waste: vacuum cleaner	0.1%	0.6%	0.2%	0.0%	0.7%	0.3%	0.4%	1.0%	0.5%	0.1%	0.0%	0.1%	2.2%	0.7%	1.9%
E-waste: small household appliances	1.0%	0.3%	0.9%	2.3%	0.0%	1.4%	0.3%	0.5%	0.3%	0.6%	2.5%	0.7%	1.3%	2.6%	1.6%
E-waste: other - tools / garden with cord / battery	0.1%	1.1%	0.3%	0.5%	0.2%	0.4%	0.6%	0.0%	0.5%	1.3%	0.2%	1.3%	1.4%	0.0%	1.1%
Furniture: Wooden	5.5%	9.5%	6.3%	25.2%	17.1%	22.1%	10.0%	8.0%	9.8%	12.4%	31.9%	13.5%	10.0%	9.7%	9.9%
Furniture: Plastic	0.0%	0.0%	0.0%	1.4%	0.0%	0.9%	0.7%	0.8%	0.7%	0.1%	0.0%	0.1%	1.8%	0.0%	1.4%
Furniture: Metal	1.1%	2.3%	1.4%	1.2%	0.0%	0.8%	1.0%	0.6%	1.0%	4.8%	5.8%	4.8%	0.6%	4.2%	1.4%
Furniture: Composite	3.3%	3.3%	3.3%	4.2%	21.6%	10.9%	4.9%	4.6%	4.9%	3.6%	6.0%	3.7%	6.5%	7.6%	6.7%
Children's car seat/booster	0.3%	0.0%	0.2%	0.0%	0.0%	0.0%	0.5%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Fuels/solvents/chemicals	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Gas bottles/ extinguishers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Glass - other	0.5%	0.3%	0.5%	0.2%	0.0%	0.1%	0.2%	1.7%	0.3%	0.8%	0.0%	0.8%	0.3%	0.1%	0.3%
Garden organics excl. tree branches (<100mmD)	6.8%	0.0%	5.4%	0.0%	0.3%	0.1%	3.7%	0.2%	3.3%	0.7%	0.0%	0.7%	0.0%	0.0%	0.0%

Category	Council 1			Council 2			Council 3			Council 4			Council 5		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
Garden organics tree branches (>100mmD)	2.1%	0.0%	1.7%	0.0%	0.0%	0.0%	7.5%	1.0%	6.8%	0.4%	4.3%	0.6%	0.0%	0.0%	0.0%
Insulation	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.3%	0.2%	0.0%	0.1%
Lights - fluorescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
Lights - fittings /lamps	0.0%	0.4%	0.1%	0.0%	0.0%	0.0%	0.2%	0.8%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Luggage	0.6%	0.4%	0.5%	0.1%	0.5%	0.3%	0.8%	0.8%	0.8%	0.4%	0.0%	0.4%	2.4%	4.7%	2.9%
Mattresses	1.5%	6.2%	2.4%	5.1%	1.4%	3.7%	4.7%	2.7%	4.5%	2.6%	5.1%	2.8%	1.3%	2.2%	1.5%
Motor oil	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Paints	0.7%	0.0%	0.6%	1.5%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Paper/mags/books	1.1%	0.0%	0.9%	0.0%	0.0%	0.0%	0.1%	0.7%	0.2%	0.3%	0.5%	0.3%	0.6%	1.3%	0.7%
Plasterboard	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Plastic other	22.5%	1.5%	18.3%	2.0%	2.5%	2.2%	2.6%	2.4%	2.5%	4.8%	5.0%	4.8%	11.6%	1.5%	9.4%
Pram / stroller	0.3%	0.0%	0.2%	1.3%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.6%	0.3%
Polystyrene	0.7%	0.2%	0.6%	0.0%	0.0%	0.0%	0.1%	1.9%	0.3%	0.1%	0.0%	0.1%	0.0%	0.5%	0.1%
PVC pipe etc	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Rubble	1.7%	0.2%	1.4%	1.4%	0.0%	0.8%	1.3%	0.0%	1.2%	0.3%	0.0%	0.3%	0.4%	0.8%	0.5%
Rubber and foam	0.4%	0.0%	0.3%	0.6%	0.1%	0.4%	0.5%	0.0%	0.5%	0.4%	0.0%	0.4%	0.0%	0.0%	0.0%
Scrap metal	4.8%	1.1%	4.0%	2.0%	1.5%	1.8%	7.7%	4.6%	7.4%	1.6%	0.0%	1.5%	2.7%	3.7%	2.9%
Scrap metal - car parts	0.3%	0.0%	0.2%	0.0%	0.2%	0.1%	0.5%	0.0%	0.5%	0.3%	0.0%	0.3%	0.3%	1.5%	0.6%
Smoke detectors	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sofa, sofabed, lounge chair	2.1%	24.9%	6.7%	14.6%	14.1%	14.4%	6.2%	9.3%	6.5%	4.7%	5.7%	4.8%	6.8%	7.3%	6.9%
Sporting / camping equipment	0.5%	0.0%	0.4%	0.0%	0.0%	0.0%	1.0%	0.5%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Textiles: clothes	1.5%	0.0%	1.2%	0.0%	0.2%	0.1%	0.5%	0.8%	0.5%	0.2%	0.0%	0.1%	0.1%	0.9%	0.3%
Textiles: household furnishings	6.1%	6.5%	6.1%	1.3%	1.1%	1.2%	1.4%	2.6%	1.5%	5.5%	8.1%	5.6%	1.1%	1.8%	1.3%
Toys mainly plastic	0.3%	0.8%	0.4%	0.2%	0.0%	0.1%	0.4%	0.5%	0.4%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%
Toys other	0.2%	0.0%	0.1%	0.0%	0.0%	0.0%	0.2%	0.2%	0.2%	0.0%	0.0%	0.0%	0.4%	0.0%	0.3%
Tyres	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
White goods: air conditioner	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
White goods: fridge/freezer	0.0%	0.0%	0.0%	0.0%	4.2%	1.6%	1.4%	2.1%	1.5%	0.4%	6.4%	0.7%	5.6%	0.0%	4.4%

Category	Council 1			Council 2			Council 3			Council 4			Council 5		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
White goods: dishwasher	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	3.4%	0.6%	0.0%	0.0%	0.0%	1.2%	0.0%	0.9%
White goods: washing machine/ dryer	0.0%	3.1%	0.6%	1.6%	0.0%	1.0%	0.5%	3.5%	0.8%	25.3%	0.0%	24.0%	1.4%	9.3%	3.1%
Wood/timber treated	8.3%	8.0%	8.3%	20.8%	6.2%	15.1%	16.2%	2.3%	14.9%	6.1%	0.0%	5.8%	4.9%	12.7%	6.5%
Wood/timber untreated	0.6%	1.7%	0.8%	1.2%	0.0%	0.7%	2.9%	0.4%	2.6%	1.6%	0.8%	1.5%	0.1%	0.1%	0.1%
Other (specify) incl. suspected commercial waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.5%	0.0%	0.0%	0.0%
Overweight items (>50kg)	1.9%	0.0%	1.5%	0.0%	0.0%	0.0%	0.5%	0.0%	0.5%	3.4%	0.0%	3.2%	0.0%	0.0%	0.0%
Oversize items (>1.5m)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.3%	0.0%	0.0%	0.0%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Category	Council 6			Council 7			Council 8			Region		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
Bagged household waste	7.5%	2.8%	6.9%	3.6%	0.6%	3.5%	4.6%	2.1%	4.6%	4.3%	3.1%	4.2%
Loose household waste	1.0%	0.9%	1.0%	0.3%	0.0%	0.3%	0.2%	0.0%	0.2%	0.3%	0.3%	0.3%
Asbestos	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Batteries - car	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bike / exercise bike	0.5%	0.0%	0.4%	0.6%	0.0%	0.6%	1.1%	0.0%	1.1%	0.9%	0.5%	0.9%
Bric-a-brac	4.6%	8.8%	5.1%	1.2%	0.0%	1.1%	2.5%	0.0%	2.5%	2.5%	5.2%	2.7%
Barbecue	0.3%	0.0%	0.3%	0.3%	0.0%	0.3%	3.0%	0.0%	2.9%	1.6%	0.8%	1.5%
Cardboard	1.9%	6.7%	2.5%	4.1%	9.7%	4.4%	2.2%	0.0%	2.2%	4.0%	6.9%	4.2%
Carpet - mat, rug, underlay <1.5m	1.7%	0.4%	1.5%	2.9%	0.2%	2.7%	1.9%	0.0%	1.9%	2.2%	1.7%	2.2%
Commingled recyclable containers	0.0%	0.4%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%
Composite mostly-Plastic	1.0%	1.7%	1.1%	0.0%	0.0%	0.0%	0.8%	0.0%	0.8%	0.5%	0.6%	0.5%
Composite other	1.1%	0.0%	1.0%	1.2%	0.0%	1.2%	4.2%	0.0%	4.2%	2.7%	0.7%	2.5%
E-waste: computer/TVs	1.4%	2.2%	1.5%	0.7%	4.1%	0.9%	1.5%	0.0%	1.5%	1.2%	2.9%	1.3%
E-waste: microwave	0.6%	1.1%	0.7%	0.6%	0.0%	0.6%	0.8%	0.0%	0.8%	0.7%	0.6%	0.7%

Category	Council 6			Council 7			Council 8			Region		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
E-waste: fan/heater	0.3%	0.0%	0.2%	1.6%	1.3%	1.6%	2.2%	6.9%	2.2%	1.4%	4.1%	1.6%
E-waste: vacuum cleaner	0.3%	3.2%	0.7%	0.6%	0.0%	0.6%	0.3%	9.4%	0.4%	0.4%	1.4%	0.5%
E-waste: small household appliances	0.5%	1.0%	0.5%	0.5%	0.0%	0.4%	0.5%	6.0%	0.5%	0.6%	1.0%	0.6%
E-waste: other - tools / garden with cord / battery	0.8%	0.4%	0.7%	1.3%	0.0%	1.2%	0.3%	0.0%	0.3%	0.7%	0.3%	0.6%
Furniture: Wooden	10.3%	14.5%	10.9%	20.3%	24.1%	20.5%	12.1%	17.9%	12.1%	11.8%	14.2%	12.0%
Furniture: Plastic	0.5%	2.0%	0.7%	0.1%	0.0%	0.1%	0.5%	0.0%	0.5%	0.5%	0.7%	0.5%
Furniture: Metal	2.2%	3.5%	2.4%	1.2%	0.0%	1.1%	2.3%	15.4%	2.3%	2.2%	2.7%	2.3%
Furniture: Composite	13.8%	15.6%	14.0%	16.8%	5.2%	16.1%	7.4%	20.8%	7.4%	7.8%	10.4%	8.1%
Children's car seat/booster	0.4%	0.0%	0.4%	0.5%	0.0%	0.5%	2.0%	0.0%	2.0%	1.0%	0.0%	0.9%
Fuels/solvents/chemicals	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.1%	0.0%	0.0%
Gas bottles/ extinguishers	0.0%	0.0%	0.0%	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Glass - other	0.4%	1.3%	0.5%	0.6%	0.8%	0.6%	0.7%	0.0%	0.7%	0.5%	0.7%	0.6%
Garden organics excl. tree branches (<100mmD)	1.6%	0.9%	1.5%	0.0%	0.0%	0.0%	1.6%	0.0%	1.6%	1.9%	0.3%	1.7%
Garden organics tree branches (>100mmD)	3.8%	0.0%	3.3%	0.0%	0.0%	0.0%	0.4%	0.0%	0.4%	2.0%	0.5%	1.9%
Insulation	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.1%	0.0%	0.1%
Lights - fluorescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Lights - fittings /lamps	0.1%	0.0%	0.1%	1.5%	0.0%	1.4%	0.2%	0.0%	0.2%	0.2%	0.2%	0.2%
Luggage	0.9%	1.1%	0.9%	0.5%	0.0%	0.5%	0.5%	0.0%	0.5%	0.7%	1.2%	0.7%
Mattresses	5.6%	2.2%	5.2%	3.8%	34.9%	5.7%	2.4%	0.0%	2.4%	3.3%	4.4%	3.4%
Motor oil	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Paints	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.1%	0.0%	0.1%
Paper/mags/books	0.8%	0.0%	0.7%	0.8%	0.0%	0.7%	0.6%	0.0%	0.6%	0.5%	0.3%	0.5%
Plasterboard	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.3%	0.1%	0.0%	0.1%
Plastic other	6.9%	1.8%	6.3%	5.8%	2.9%	5.6%	3.8%	4.5%	3.8%	5.7%	2.3%	5.5%
Pram / stroller	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%
Polystyrene	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	1.3%	0.0%	1.3%	0.6%	0.4%	0.6%
PVC pipe etc	0.0%	0.0%	0.0%	0.4%	0.0%	0.3%	0.2%	0.0%	0.2%	0.1%	0.0%	0.1%

Category	Council 6			Council 7			Council 8			Region		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
Rubble	0.3%	3.5%	0.7%	1.7%	0.0%	1.6%	1.6%	0.0%	1.6%	1.1%	1.1%	1.1%
Rubber and foam	0.1%	0.0%	0.1%	0.1%	0.0%	0.1%	0.7%	3.6%	0.7%	0.4%	0.0%	0.4%
Scrap metal	3.8%	2.0%	3.6%	4.2%	6.5%	4.3%	5.4%	0.0%	5.4%	4.7%	2.4%	4.5%
Scrap metal - car parts	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.3%	0.0%	0.3%	0.2%	0.2%	0.2%
Smoke detectors	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sofa, sofabed, lounge chair	5.6%	5.7%	5.6%	7.0%	0.0%	6.5%	3.1%	0.0%	3.1%	4.7%	10.3%	5.1%
Sporting / camping equipment	0.0%	0.0%	0.0%	0.4%	0.0%	0.3%	1.0%	0.0%	1.0%	0.6%	0.1%	0.5%
Textiles: clothes	0.8%	1.1%	0.8%	0.7%	3.3%	0.8%	0.8%	0.0%	0.8%	0.6%	0.7%	0.7%
Textiles: household furnishings	2.7%	4.1%	2.8%	2.7%	4.7%	2.8%	4.9%	0.0%	4.9%	3.8%	3.9%	3.8%
Toys mainly plastic	0.4%	1.6%	0.5%	0.0%	0.2%	0.0%	0.4%	0.0%	0.4%	0.3%	0.7%	0.3%
Toys other	0.5%	0.0%	0.5%	0.1%	0.0%	0.1%	0.2%	0.0%	0.2%	0.2%	0.0%	0.2%
Tyres	0.1%	0.0%	0.1%	0.5%	0.0%	0.5%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%
White goods: air conditioner	0.4%	0.0%	0.3%	0.0%	0.0%	0.0%	0.2%	0.0%	0.2%	0.1%	0.0%	0.1%
White goods: fridge/freezer	0.6%	1.9%	0.8%	0.9%	0.0%	0.8%	1.1%	0.0%	1.1%	1.0%	2.0%	1.1%
White goods: dishwasher	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.1%	0.6%	0.2%
White goods: washing machine/ dryer	1.0%	1.1%	1.0%	0.5%	0.0%	0.5%	1.2%	0.0%	1.2%	4.1%	2.6%	4.0%
Wood/timber treated	7.5%	4.6%	7.2%	5.6%	1.1%	5.3%	10.6%	0.0%	10.6%	9.8%	5.5%	9.4%
Wood/timber untreated	4.2%	0.0%	3.7%	0.5%	0.4%	0.5%	4.0%	0.0%	4.0%	3.0%	0.4%	2.8%
Other (specify) incl. suspected commercial waste	0.7%	1.0%	0.7%	3.1%	0.0%	2.9%	1.8%	13.5%	1.8%	1.0%	0.4%	1.0%
Overweight items (>50kg)	0.2%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	0.6%
Oversize items (>1.5m)	0.0%	0.7%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table 29: Average generation by weight (kg) by dwelling type

Category	Council 1			Council 2			Council 3			Council 4			Council 5		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
Bagged household waste	4.5	0.9	2.4	1.4	0.0	0.2	3.1	1.0	2.2	2.1	0.1	1.1	1.0	0.2	0.6
Loose household waste	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.2	0.0	0.1
Asbestos	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Batteries - car	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bike / exercise bike	0.0	0.0	0.0	0.2	0.0	0.0	2.0	0.0	1.1	0.2	0.5	0.3	1.7	0.1	0.8
Bric-a-brac	3.5	1.7	2.5	0.8	0.1	0.2	2.5	0.4	1.6	0.6	0.0	0.3	1.2	0.4	0.8
Barbecue	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.9	1.3	0.6	0.0	0.3	2.0	0.0	1.0
Cardboard	5.2	0.5	2.6	2.7	0.1	0.4	2.3	3.4	2.8	13.8	0.0	7.0	9.0	0.9	4.7
Carpet - mat, rug, underlay <1.5m	2.4	0.6	1.4	0.8	0.1	0.2	3.8	0.6	2.5	3.6	0.0	1.8	1.5	0.0	0.7
Commingled recyclable containers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Composite mostly-Plastic	0.0	0.0	0.0	0.4	0.0	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.1	0.0	0.0
Composite other	0.7	0.0	0.3	0.1	0.1	0.1	5.9	0.1	3.4	0.4	0.0	0.2	0.9	0.4	0.6
E-waste: computer/TVs	0.1	0.0	0.1	0.0	0.4	0.3	1.3	0.2	0.8	0.9	0.5	0.7	1.4	0.7	1.0
E-waste: microwave	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.3	1.8	0.3	1.1	0.0	0.0	0.0
E-waste: fan/heater	0.2	0.1	0.2	0.4	0.9	0.8	1.9	0.9	1.5	0.2	0.1	0.1	1.8	1.2	1.4
E-waste: vacuum cleaner	0.1	0.1	0.1	0.0	0.0	0.0	0.6	0.2	0.4	0.1	0.0	0.1	1.3	0.1	0.7
E-waste: small household appliances	0.7	0.0	0.3	1.4	0.0	0.2	0.4	0.1	0.3	0.8	0.2	0.5	0.8	0.4	0.6
E-waste: other - tools / garden with cord / battery	0.1	0.2	0.1	0.3	0.0	0.1	0.8	0.0	0.4	2.0	0.0	1.0	0.9	0.0	0.4
Furniture: Wooden	3.9	1.3	2.5	15.0	1.0	2.9	12.9	1.5	8.0	18.6	2.8	10.8	6.1	1.4	3.6
Furniture: Plastic	0.0	0.0	0.0	0.8	0.0	0.1	0.9	0.1	0.6	0.1	0.0	0.0	1.1	0.0	0.5
Furniture: Metal	0.8	0.3	0.5	0.7	0.0	0.1	1.4	0.1	0.8	7.2	0.5	3.9	0.4	0.6	0.5
Furniture: Composite	2.4	0.5	1.3	2.5	1.3	1.4	6.3	0.8	4.0	5.4	0.5	3.0	3.9	1.1	2.4
Children's car seat/booster	0.2	0.0	0.1	0.0	0.0	0.0	0.6	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
Fuels/solvents/chemicals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas bottles/ extinguishers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass - other	0.4	0.0	0.2	0.1	0.0	0.0	0.2	0.3	0.3	1.2	0.0	0.6	0.2	0.0	0.1
Garden organics excl. tree branches (<100mmD)	4.9	0.0	2.1	0.0	0.0	0.0	4.8	0.0	2.7	1.0	0.0	0.5	0.0	0.0	0.0

Category	Council 1			Council 2			Council 3			Council 4			Council 5		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
Garden organics tree branches (>100mmD)	1.5	0.0	0.7	0.0	0.0	0.0	9.7	0.2	5.6	0.6	0.4	0.5	0.0	0.0	0.0
Insulation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.1	0.0	0.0
Lights - fluorescent	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Lights - fittings /lamps	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Luggage	0.4	0.0	0.2	0.1	0.0	0.0	1.0	0.1	0.6	0.6	0.0	0.3	1.4	0.7	1.0
Mattresses	1.1	0.9	0.9	3.0	0.1	0.5	6.1	0.5	3.7	4.0	0.4	2.2	0.8	0.3	0.5
Motor oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paints	0.5	0.0	0.2	0.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paper/mags/books	0.8	0.0	0.3	0.0	0.0	0.0	0.2	0.1	0.1	0.4	0.0	0.2	0.3	0.2	0.3
Plasterboard	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Plastic other	16.3	0.2	7.2	1.2	0.1	0.3	3.3	0.4	2.1	7.2	0.4	3.9	7.0	0.2	3.4
Pram / stroller	0.2	0.0	0.1	0.8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Polystyrene	0.5	0.0	0.2	0.0	0.0	0.0	0.2	0.4	0.3	0.1	0.0	0.0	0.0	0.1	0.0
PVC pipe etc	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Rubble	1.2	0.0	0.5	0.8	0.0	0.1	1.7	0.0	1.0	0.5	0.0	0.3	0.2	0.1	0.2
Rubber and foam	0.3	0.0	0.1	0.4	0.0	0.1	0.7	0.0	0.4	0.6	0.0	0.3	0.0	0.0	0.0
Scrap metal	3.5	0.1	1.6	1.2	0.1	0.2	9.9	0.8	6.0	2.3	0.0	1.2	1.7	0.6	1.1
Scrap metal - car parts	0.2	0.0	0.1	0.0	0.0	0.0	0.6	0.0	0.4	0.4	0.0	0.2	0.2	0.2	0.2
Smoke detectors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sofa, sofabed, lounge chair	1.5	3.4	2.6	8.7	0.8	1.9	8.0	1.7	5.3	7.1	0.5	3.9	4.1	1.1	2.5
Sporting / camping equipment	0.4	0.0	0.2	0.0	0.0	0.0	1.3	0.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
Textiles: clothes	1.1	0.0	0.5	0.0	0.0	0.0	0.7	0.1	0.4	0.2	0.0	0.1	0.1	0.1	0.1
Textiles: household furnishings	4.4	0.9	2.4	0.8	0.1	0.2	1.8	0.5	1.2	8.2	0.7	4.5	0.7	0.3	0.5
Toys mainly plastic	0.2	0.1	0.1	0.1	0.0	0.0	0.5	0.1	0.3	0.0	0.0	0.0	0.1	0.0	0.0
Toys other	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.1
Tyres	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
White goods: air conditioner	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White goods: fridge/freezer	0.0	0.0	0.0	0.0	0.2	0.2	1.8	0.4	1.2	0.5	0.6	0.5	3.4	0.0	1.6

Category	Council 1			Council 2			Council 3			Council 4			Council 5		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
White goods: dishwasher	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	0.5	0.0	0.0	0.0	0.7	0.0	0.3
White goods: washing machine/ dryer	0.0	0.4	0.2	1.0	0.0	0.1	0.6	0.6	0.6	37.9	0.0	19.3	0.8	1.4	1.1
Wood/timber treated	6.0	1.1	3.2	12.4	0.4	2.0	21.0	0.4	12.1	9.2	0.0	4.7	2.9	1.9	2.4
Wood/timber untreated	0.4	0.2	0.3	0.7	0.0	0.1	3.7	0.1	2.1	2.4	0.1	1.2	0.1	0.0	0.0
Other (specify) incl. suspected commercial waste	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.4	0.0	0.0	0.0
Overweight items (>50kg)	1.4	0.0	0.6	0.0	0.0	0.0	0.7	0.0	0.4	5.1	0.0	2.6	0.0	0.0	0.0
Oversize items (>1.5m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.3	0.0	0.0	0.0
Total	72.3	13.9	39.2	59.6	5.9	13.1	129.3	18.3	81.4	149.7	8.7	80.5	60.5	14.8	36.3

Category	Council 6			Council 7			Council 8			Region		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
Bagged household waste	12.0	1.2	8.3	3.3	0.0	1.3	11.2	0.1	10.0	4.8	0.4	3.3
Loose household waste	1.6	0.4	1.2	0.3	0.0	0.1	0.4	0.0	0.3	0.3	0.1	0.2
Asbestos	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Batteries - car	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bike / exercise bike	0.8	0.0	0.5	0.6	0.0	0.2	2.7	0.0	2.4	1.0	0.1	0.7
Bric-a-brac	7.4	3.7	6.1	1.0	0.0	0.4	6.0	0.0	5.4	2.9	0.8	2.2
Barbecue	0.6	0.0	0.4	0.3	0.0	0.1	7.2	0.0	6.4	1.5	0.1	1.2
Cardboard	3.0	2.9	3.0	3.7	0.4	1.7	5.3	0.0	4.7	5.6	1.0	3.4
Carpet - mat, rug, underlay <1.5m	2.7	0.2	1.8	2.6	0.0	1.0	4.6	0.0	4.1	2.7	0.2	1.7
Commingled recyclable containers	0.0	0.2	0.1	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
Composite mostly-Plastic	1.6	0.7	1.3	0.0	0.0	0.0	1.9	0.0	1.7	0.5	0.1	0.4
Composite other	1.8	0.0	1.2	1.1	0.0	0.4	10.1	0.0	9.0	2.6	0.1	1.9
E-waste: computer/TVs	2.3	0.9	1.8	0.6	0.2	0.3	3.6	0.0	3.2	1.3	0.4	1.0
E-waste: microwave	1.0	0.5	0.8	0.6	0.0	0.2	2.0	0.0	1.8	0.7	0.1	0.5

Category	Council 6			Council 7			Council 8			Region		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
E-waste: fan/heater	0.4	0.0	0.3	1.4	0.1	0.6	5.4	0.3	4.8	1.5	0.4	1.2
E-waste: vacuum cleaner	0.5	1.4	0.8	0.6	0.0	0.2	0.8	0.4	0.8	0.5	0.3	0.4
E-waste: small household appliances	0.7	0.4	0.6	0.4	0.0	0.2	1.2	0.3	1.1	0.8	0.2	0.5
E-waste: other - tools / garden with cord / battery	1.3	0.2	0.9	1.2	0.0	0.5	0.8	0.0	0.7	0.9	0.0	0.5
Furniture: Wooden	16.6	6.2	13.0	18.2	0.9	7.8	29.3	0.8	26.2	15.1	2.0	9.3
Furniture: Plastic	0.8	0.9	0.8	0.1	0.0	0.0	1.2	0.0	1.0	0.6	0.1	0.4
Furniture: Metal	3.6	1.5	2.9	1.1	0.0	0.4	5.5	0.7	4.9	2.6	0.5	1.8
Furniture: Composite	22.1	6.7	16.8	15.0	0.2	6.1	17.8	0.9	16.0	9.4	1.5	6.4
Children's car seat/booster	0.7	0.0	0.5	0.4	0.0	0.2	4.8	0.0	4.3	0.9	0.0	0.7
Fuels/solvents/chemicals	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
Gas bottles/ extinguishers	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Glass - other	0.6	0.6	0.6	0.5	0.0	0.2	1.7	0.0	1.5	0.6	0.1	0.4
Garden organics excl. tree branches (<100mmD)	2.6	0.4	1.8	0.0	0.0	0.0	3.9	0.0	3.5	2.2	0.1	1.3
Garden organics tree branches (>100mmD)	6.1	0.0	4.0	0.0	0.0	0.0	1.0	0.0	0.9	2.4	0.1	1.4
Insulation	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.1	0.0	0.1
Lights - fluorescent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lights - fittings /lamps	0.2	0.0	0.1	1.3	0.0	0.5	0.5	0.0	0.4	0.3	0.0	0.2
Luggage	1.5	0.5	1.1	0.5	0.0	0.2	1.2	0.0	1.0	0.8	0.2	0.6
Mattresses	9.0	0.9	6.2	3.4	1.3	2.2	5.7	0.0	5.1	4.1	0.6	2.7
Motor oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paints	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.2	0.0	0.1
Paper/mags/books	1.2	0.0	0.8	0.7	0.0	0.3	1.4	0.0	1.2	0.6	0.0	0.4
Plasterboard	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.6	0.1	0.0	0.1
Plastic other	11.0	0.8	7.5	5.2	0.1	2.1	9.3	0.2	8.3	7.6	0.3	4.3
Pram / stroller	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.1
Polystyrene	0.2	0.0	0.1	0.1	0.0	0.0	3.1	0.0	2.8	0.5	0.1	0.4
PVC pipe etc	0.0	0.0	0.0	0.3	0.0	0.1	0.5	0.0	0.4	0.1	0.0	0.1

Category	Council 6			Council 7			Council 8			Region		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
Rubble	0.5	1.5	0.8	1.5	0.0	0.6	3.9	0.0	3.4	1.3	0.2	0.9
Rubber and foam	0.2	0.0	0.1	0.1	0.0	0.0	1.6	0.2	1.4	0.5	0.0	0.3
Scrap metal	6.2	0.8	4.3	3.7	0.2	1.6	13.2	0.0	11.7	5.2	0.3	3.5
Scrap metal - car parts	0.0	0.0	0.0	0.1	0.0	0.0	0.7	0.0	0.6	0.3	0.0	0.2
Smoke detectors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sofa, sofabed, lounge chair	9.0	2.4	6.7	6.2	0.0	2.5	7.4	0.0	6.6	6.5	1.2	4.0
Sporting / camping equipment	0.0	0.0	0.0	0.3	0.0	0.1	2.4	0.0	2.1	0.5	0.0	0.4
Textiles: clothes	1.3	0.4	1.0	0.6	0.1	0.3	1.8	0.0	1.6	0.7	0.1	0.5
Textiles: household furnishings	4.3	1.7	3.4	2.4	0.2	1.1	11.9	0.0	10.6	4.3	0.5	3.0
Toys mainly plastic	0.6	0.7	0.6	0.0	0.0	0.0	0.9	0.0	0.8	0.3	0.1	0.2
Toys other	0.8	0.0	0.6	0.1	0.0	0.0	0.6	0.0	0.5	0.3	0.0	0.2
Tyres	0.2	0.0	0.1	0.4	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.1
White goods: air conditioner	0.6	0.0	0.4	0.0	0.0	0.0	0.4	0.0	0.4	0.1	0.0	0.1
White goods: fridge/freezer	1.0	0.8	0.9	0.8	0.0	0.3	2.6	0.0	2.3	1.3	0.3	0.9
White goods: dishwasher	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.2	0.1	0.1
White goods: washing machine/ dryer	1.5	0.5	1.2	0.5	0.0	0.2	2.8	0.0	2.5	5.6	0.4	3.2
Wood/timber treated	12.1	2.0	8.6	5.0	0.0	2.0	25.8	0.0	22.9	11.8	0.7	7.2
Wood/timber untreated	6.7	0.0	4.4	0.4	0.0	0.2	9.7	0.0	8.6	3.0	0.1	2.1
Other (specify) incl. suspected commercial waste	1.1	0.4	0.8	2.8	0.0	1.1	4.3	0.6	3.9	1.1	0.1	0.8
Overweight items (>50kg)	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.5
Oversize items (>1.5m)	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Total	160.3	42.7	119.5	89.4	3.8	37.9	242.1	4.2	215.8	120.4	14.0	78.0

Table 30: Composition by volume (L) - all dwellings

Category	Council 1		Council 2		Council 3		Council 4		Council 5		Council 6		Council 7		Council 8		Region	
	VOL	%	VOL	%	VOL	%	VOL	%	VOL	%	VOL	%	VOL	%	VOL	%	VOL	%
Bagged household waste	291.56	0.7%	453	1.2%	3881	2.9%	2000	2.7%	1110	1.8%	12332	5.7%	1600	3.1%	14273.2	4.4%	35940.76	3.9%
Loose household waste	0	0.0%	0	0.0%	110	0.1%	0	0.0%	140	0.2%	1005	0.5%	210	0.4%	400	0.1%	1865	0.2%
Asbestos	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Batteries - car	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Bike / exercise bike	15	0.0%	90	0.2%	820	0.6%	650	0.9%	880	1.5%	670	0.3%	380	0.7%	3370	1.0%	6875	0.7%
Bric-a-brac	712.68	1.8%	920	2.5%	2142	1.6%	302	0.4%	930	1.5%	9813	4.6%	295	0.6%	8729	2.7%	23843.68	2.6%
Barbecue	0	0.0%	0	0.0%	1580	1.2%	570	0.8%	840	1.4%	575	0.3%	120	0.2%	7900	2.4%	11585	1.2%
Cardboard	2821.88	7.1%	3110	8.4%	7058	5.2%	4925.47	6.7%	7232.96	12.0%	13172	6.1%	2383	4.7%	16045	5.0%	56748.31	6.1%
Carpet - mat, rug, underlay <1.5m	1745	4.4%	530	1.4%	2827	2.1%	2920	4.0%	1663	2.8%	3122	1.5%	740	1.5%	6173	1.9%	19720	2.1%
Commingled recyclable containers	0	0.0%	0	0.0%	80	0.1%	0	0.0%	0	0.0%	100	0.0%	0	0.0%	110	0.0%	290	0.0%
Composite mostly-Plastic	60	0.2%	360	1.0%	270	0.2%	120	0.2%	120	0.2%	1809	0.8%	40	0.1%	2513	0.8%	5292	0.6%
Composite other	420	1.1%	240	0.6%	4835	3.6%	465	0.6%	1330	2.2%	1322	0.6%	985	1.9%	11929.4	3.7%	21526.4	2.3%
E-waste: computer/TVs	30	0.1%	290	0.8%	1287	1.0%	295	0.4%	760	1.3%	1355.2	0.6%	164	0.3%	1900	0.6%	6081.2	0.7%
E-waste: microwave	0	0.0%	0	0.0%	120	0.1%	671.48	0.9%	0	0.0%	510	0.2%	100	0.2%	530	0.2%	1931.48	0.2%
E-waste: fan/heater	300	0.8%	1892	5.1%	1510	1.1%	230	0.3%	1730	2.9%	200	0.1%	480	0.9%	1315	0.4%	7657	0.8%
E-waste: vacuum cleaner	105	0.3%	70	0.2%	450	0.3%	160	0.2%	130	0.2%	456	0.2%	180	0.4%	735	0.2%	2286	0.2%
E-waste: small household appliances	220	0.6%	165	0.4%	277	0.2%	381	0.5%	616	1.0%	759	0.4%	106	0.2%	1310	0.4%	3834	0.4%
E-waste: other - tools / garden with cord / battery	82	0.2%	72	0.2%	470	0.3%	778	1.1%	450	0.7%	1305	0.6%	450	0.9%	1012	0.3%	4619	0.5%
Furniture: Wooden	4255	10.7%	5660	15.3%	10890	8.1%	10280	14.0%	8156	13.6%	26295	12.3%	10615	20.8%	47810	14.8%	123961	13.3%
Furniture: Plastic	0	0.0%	510	1.4%	1700	1.3%	415	0.6%	1700	2.8%	1799	0.8%	220	0.4%	2700	0.8%	9044	1.0%
Furniture: Metal	1310	3.3%	275	0.7%	2700	2.0%	4067	5.6%	1630	2.7%	7720	3.6%	540	1.1%	7110	2.2%	25352	2.7%
Furniture: Composite	2910	7.3%	1994.7	5.4%	7770	5.8%	4623	6.3%	4900	8.2%	28878.72	13.5%	3670	7.2%	28420	8.8%	83166.42	8.9%

Category	Council 1		Council 2		Council 3		Council 4		Council 5		Council 6		Council 7		Council 8		Region	
	VOL	%	VOL	%	VOL	%	VOL	%	VOL	%	VOL	%	VOL	%	VOL	%	VOL	%
Children's car seat/booster	145	0.4%	0	0.0%	510	0.4%	90	0.1%	0	0.0%	788	0.4%	280	0.5%	2710	0.8%	4523	0.5%
Fuels/solvents/chemicals	2	0.0%	0	0.0%	4	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	900	0.3%	906	0.1%
Gas bottles/extinguishers	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	40	0.1%	20	0.0%	60	0.0%
Glass - other	71	0.2%	10	0.0%	270	0.2%	297	0.4%	45	0.1%	264.5	0.1%	230	0.5%	495	0.2%	1682.5	0.2%
Garden organics excl. tree branches (<100mmD)	3695	9.3%	2400	6.5%	6336	4.7%	570	0.8%	5	0.0%	4215	2.0%	5	0.0%	7910	2.5%	25136	2.7%
Garden organics tree branches (>100mmD)	580	1.5%	0	0.0%	5115	3.8%	350	0.5%	0	0.0%	1842	0.9%	0	0.0%	1130	0.4%	9017	1.0%
Insulation	0	0.0%	0	0.0%	0	0.0%	600	0.8%	100	0.2%	20	0.0%	0	0.0%	580	0.2%	1300	0.1%
Lights - fluorescent	0	0.0%	0	0.0%	36	0.0%	0	0.0%	5	0.0%	61	0.0%	0	0.0%	4	0.0%	106	0.0%
Lights - fittings /lamps	10	0.0%	0	0.0%	374.1	0.3%	0	0.0%	0	0.0%	237	0.1%	864.28	1.7%	488	0.2%	1973.38	0.2%
Luggage	297	0.7%	150	0.4%	1820	1.4%	805	1.1%	3232	5.4%	2800	1.3%	285	0.6%	2363	0.7%	11752	1.3%
Mattresses	3100	7.8%	3410	9.2%	12400	9.2%	6720	9.2%	1700	2.8%	20578	9.6%	5460	10.7%	18020	5.6%	71388	7.7%
Motor oil	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	6	0.0%	6	0.0%
Paints	120	0.3%	70	0.2%	20	0.0%	0	0.0%	0	0.0%	26.5	0.0%	10	0.0%	188	0.1%	434.5	0.0%
Paper/mags/books	90	0.2%	0	0.0%	117	0.1%	115	0.2%	335	0.6%	1000	0.5%	98	0.2%	928	0.3%	2683	0.3%
Plasterboard	0	0.0%	0	0.0%	130	0.1%	0	0.0%	0	0.0%	0	0.0%	60	0.1%	590	0.2%	780	0.1%
Plastic other	2435.22	6.1%	1275	3.4%	5548	4.1%	3583.88	4.9%	2699	4.5%	8026	3.7%	3068	6.0%	20814.68	6.5%	47449.78	5.1%
Pram / stroller	140	0.4%	300	0.8%	0	0.0%	120	0.2%	170	0.3%	220	0.1%	0	0.0%	360	0.1%	1310	0.1%
Polystyrene	456.28	1.1%	0	0.0%	1901	1.4%	740	1.0%	300	0.5%	2285	1.1%	210	0.4%	6169.7	1.9%	12061.98	1.3%
PVC pipe etc	30	0.1%	0	0.0%	175	0.1%	0	0.0%	0	0.0%	20	0.0%	701	1.4%	865	0.3%	1791	0.2%
Rubble	86	0.2%	62	0.2%	345	0.3%	121	0.2%	140	0.2%	110	0.1%	182	0.4%	928	0.3%	1974	0.2%
Rubber and foam	104	0.3%	440	1.2%	699	0.5%	205	0.3%	90	0.1%	1305	0.6%	80	0.2%	3470	1.1%	6393	0.7%
Scrap metal	1419	3.6%	480	1.3%	5951	4.4%	1460	2.0%	1392	2.3%	5675	2.6%	1855	3.6%	12575	3.9%	30807	3.3%
Scrap metal - car parts	80	0.2%	40	0.1%	150	0.1%	360	0.5%	300	0.5%	20	0.0%	80	0.2%	294	0.1%	1324	0.1%
Smoke detectors	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Sofa, sofabed, lounge chair	5440	13.7%	6930	18.7%	15200	11.3%	10100	13.8%	5900	9.8%	24100	11.2%	6100	12.0%	19060	5.9%	92830	10.0%

Category	Council 1		Council 2		Council 3		Council 4		Council 5		Council 6		Council 7		Council 8		Region	
	VOL	%	VOL	%	VOL	%	VOL	%	VOL	%	VOL	%	VOL	%	VOL	%	VOL	%
Sporting / camping equipment	500	1.3%	0	0.0%	915	0.7%	0	0.0%	0	0.0%	0	0.0%	200	0.4%	2150	0.7%	3765	0.4%
Textiles: clothes	108.3	0.3%	30	0.1%	772	0.6%	320	0.4%	117	0.2%	1985	0.9%	326	0.6%	3471	1.1%	7129.3	0.8%
Textiles: household furnishings	1382.76	3.5%	880	2.4%	2855	2.1%	3082	4.2%	859	1.4%	5280	2.5%	1760	3.5%	11995	3.7%	28093.76	3.0%
Toys mainly plastic	170	0.4%	60	0.2%	754	0.6%	0	0.0%	40	0.1%	2185	1.0%	20	0.0%	1860	0.6%	5089	0.5%
Toys other	130	0.3%	0	0.0%	287	0.2%	0	0.0%	320	0.5%	1300	0.6%	31	0.1%	539	0.2%	2607	0.3%
Tyres	0	0.0%	0	0.0%	60	0.0%	0	0.0%	0	0.0%	100	0.0%	80	0.2%	0	0.0%	240	0.0%
White goods: air conditioner	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	240	0.1%	0	0.0%	50	0.0%	290	0.0%
White goods: fridge/freezer	0	0.0%	300	0.8%	2170	1.6%	680	0.9%	2200	3.7%	2038	0.9%	2730	5.4%	4420	1.4%	14538	1.6%
White goods: dishwasher	0	0.0%	0	0.0%	560	0.4%	0	0.0%	350	0.6%	0	0.0%	0	0.0%	220	0.1%	1130	0.1%
White goods: washing machine/dryer	180	0.5%	350	0.9%	540	0.4%	1980	2.7%	1200	2.0%	3210	1.5%	420	0.8%	3820	1.2%	11700	1.3%
Wood/timber treated	3275	8.2%	3110	8.4%	15575	11.6%	4660	6.4%	4170	6.9%	7775	3.6%	1450	2.8%	21951	6.8%	61966	6.6%
Wood/timber untreated	305	0.8%	80	0.2%	2060	1.5%	812.5	1.1%	78	0.1%	2130	1.0%	267	0.5%	4015	1.2%	9747.5	1.0%
Other (specify) incl. suspected commercial waste	0	0.0%	0	0.0%	0	0.0%	600	0.8%	0	0.0%	865	0.4%	760	1.5%	2956.68	0.9%	5181.68	0.6%
Overweight items (>50kg)	150	0.4%	0	0.0%	120	0.1%	622	0.8%	0	0.0%	200	0.1%	0	0.0%	0	0.0%	1092	0.1%
Oversize items (>1.5m)	0	0.0%	0	0.0%	10	0.0%	340	0.5%	0	0.0%	500	0.2%	0	0.0%	0	0.0%	850	0.1%
Total	39779.7	100%	37008.7	100%	134556.1	100%	73186.3	100%	60064.5	100%	214598.9	100%	50930.3	100%	322600.7	100%	932725.6	100%

Table 31: Composition by volume (L) by dwelling type

Category	Council 1			Council 2			Council 3			Council 4			Council 5		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
Bagged household waste	1.1%	0.0%	0.7%	1.7%	0.4%	1.2%	2.3%	7.4%	2.9%	3.0%	0.2%	2.7%	1.7%	2.3%	1.8%
Loose household waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.1%	0.0%	0.0%	0.0%	0.3%	0.0%	0.2%
Asbestos	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Batteries - car	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bike / exercise bike	0.1%	0.0%	0.0%	0.4%	0.0%	0.2%	0.7%	0.0%	0.6%	0.3%	6.9%	0.9%	1.8%	0.7%	1.5%
Bric-a-brac	2.6%	0.1%	1.8%	0.5%	5.6%	2.5%	1.6%	1.5%	1.6%	0.5%	0.0%	0.4%	1.4%	1.9%	1.5%
Barbecue	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	3.9%	1.2%	0.9%	0.0%	0.8%	2.0%	0.0%	1.4%
Cardboard	6.7%	7.9%	7.1%	9.0%	7.5%	8.4%	4.0%	15.4%	5.2%	7.4%	0.0%	6.7%	11.2%	14.1%	12.0%
Carpet - mat, rug, underlay <1.5m	5.5%	2.1%	4.4%	1.0%	2.1%	1.4%	1.9%	3.7%	2.1%	4.4%	0.0%	4.0%	3.9%	0.0%	2.8%
Commingled recyclable containers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Composite mostly-Plastic	0.2%	0.0%	0.2%	1.6%	0.1%	1.0%	0.1%	0.9%	0.2%	0.2%	0.0%	0.2%	0.3%	0.0%	0.2%
Composite other	1.5%	0.2%	1.1%	0.1%	1.4%	0.6%	3.9%	1.3%	3.6%	0.7%	0.0%	0.6%	2.2%	2.3%	2.2%
E-waste: computer/TVs	0.1%	0.1%	0.1%	0.0%	2.0%	0.8%	1.0%	0.4%	1.0%	0.3%	1.7%	0.4%	1.1%	1.6%	1.3%
E-waste: microwave	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.9%	1.1%	0.9%	0.0%	0.0%	0.0%
E-waste: fan/heater	0.6%	1.0%	0.8%	0.5%	12.2%	5.1%	1.0%	2.1%	1.1%	0.3%	0.6%	0.3%	2.3%	4.2%	2.9%
E-waste: vacuum cleaner	0.2%	0.3%	0.3%	0.0%	0.5%	0.2%	0.3%	0.8%	0.3%	0.2%	0.0%	0.2%	0.2%	0.3%	0.2%
E-waste: small household appliances	0.6%	0.4%	0.6%	0.7%	0.0%	0.4%	0.2%	0.4%	0.2%	0.5%	0.8%	0.5%	0.9%	1.4%	1.0%
E-waste: other - tools / garden with cord / battery	0.1%	0.5%	0.2%	0.3%	0.0%	0.2%	0.4%	0.0%	0.3%	1.2%	0.2%	1.1%	1.1%	0.0%	0.7%
Furniture: Wooden	7.7%	17.1%	10.7%	18.2%	10.8%	15.3%	8.2%	7.2%	8.1%	12.5%	30.2%	14.0%	14.6%	11.3%	13.6%
Furniture: Plastic	0.0%	0.0%	0.0%	2.3%	0.0%	1.4%	1.3%	1.3%	1.3%	0.6%	0.0%	0.6%	4.0%	0.0%	2.8%
Furniture: Metal	3.2%	3.6%	3.3%	1.2%	0.0%	0.7%	2.2%	0.7%	2.0%	5.4%	7.2%	5.6%	1.9%	4.7%	2.7%
Furniture: Composite	8.0%	5.8%	7.3%	6.2%	4.1%	5.4%	6.0%	3.9%	5.8%	6.2%	7.5%	6.3%	8.6%	7.0%	8.2%
Children's car seat/booster	0.5%	0.0%	0.4%	0.0%	0.0%	0.0%	0.4%	0.0%	0.4%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%
Fuels/solvents/chemicals	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Gas bottles/ extinguishers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Glass - other	0.2%	0.1%	0.2%	0.0%	0.0%	0.0%	0.2%	0.5%	0.2%	0.4%	0.1%	0.4%	0.1%	0.0%	0.1%

Category	Council 1			Council 2			Council 3			Council 4			Council 5		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
Garden organics excl. tree branches (<100mmD)	13.6%	0.0%	9.3%	0.0%	16.6%	6.5%	5.3%	0.4%	4.7%	0.9%	0.0%	0.8%	0.0%	0.0%	0.0%
Garden organics tree branches (>100mmD)	2.1%	0.0%	1.5%	0.0%	0.0%	0.0%	4.2%	0.3%	3.8%	0.2%	3.8%	0.5%	0.0%	0.0%	0.0%
Insulation	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	0.0%	0.8%	0.2%	0.0%	0.2%
Lights - fluorescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Lights - fittings /lamps	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	1.4%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Luggage	0.8%	0.6%	0.7%	0.2%	0.7%	0.4%	1.4%	1.0%	1.4%	1.2%	0.0%	1.1%	3.6%	9.6%	5.4%
Mattresses	5.5%	12.7%	7.8%	13.4%	2.8%	9.2%	9.9%	3.9%	9.2%	9.2%	9.1%	9.2%	2.4%	3.9%	2.8%
Motor oil	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Paints	0.4%	0.0%	0.3%	0.3%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Paper/mags/books	0.3%	0.0%	0.2%	0.0%	0.0%	0.0%	0.1%	0.2%	0.1%	0.2%	0.1%	0.2%	0.7%	0.3%	0.6%
Plasterboard	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Plastic other	7.7%	2.7%	6.1%	3.0%	4.2%	3.4%	4.1%	4.3%	4.1%	4.9%	5.3%	4.9%	5.4%	2.3%	4.5%
Pram / stroller	0.5%	0.0%	0.4%	1.3%	0.0%	0.8%	0.0%	0.0%	0.0%	0.2%	0.0%	0.2%	0.2%	0.6%	0.3%
Polystyrene	1.1%	1.1%	1.1%	0.0%	0.0%	0.0%	1.0%	4.3%	1.4%	1.1%	0.0%	1.0%	0.0%	1.7%	0.5%
PVC pipe etc	0.0%	0.2%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Rubble	0.3%	0.0%	0.2%	0.3%	0.0%	0.2%	0.3%	0.0%	0.3%	0.2%	0.0%	0.2%	0.2%	0.4%	0.2%
Rubber and foam	0.4%	0.0%	0.3%	1.6%	0.6%	1.2%	0.6%	0.0%	0.5%	0.3%	0.0%	0.3%	0.2%	0.0%	0.1%
Scrap metal	4.6%	1.4%	3.6%	1.4%	1.1%	1.3%	4.5%	3.7%	4.4%	2.2%	0.0%	2.0%	1.8%	3.6%	2.3%
Scrap metal - car parts	0.3%	0.0%	0.2%	0.0%	0.3%	0.1%	0.1%	0.0%	0.1%	0.5%	0.0%	0.5%	0.2%	1.1%	0.5%
Smoke detectors	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sofa, sofabed, lounge chair	6.6%	28.9%	13.7%	19.2%	18.0%	18.7%	10.6%	17.1%	11.3%	14.2%	9.9%	13.8%	10.9%	7.3%	9.8%
Sporting / camping equipment	1.8%	0.0%	1.3%	0.0%	0.0%	0.0%	0.7%	0.6%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Textiles: clothes	0.4%	0.0%	0.3%	0.0%	0.2%	0.1%	0.6%	0.5%	0.6%	0.5%	0.0%	0.4%	0.1%	0.4%	0.2%
Textiles: household furnishings	2.3%	6.1%	3.5%	2.3%	2.5%	2.4%	2.0%	2.9%	2.1%	3.7%	9.2%	4.2%	1.5%	1.4%	1.4%
Toys mainly plastic	0.4%	0.4%	0.4%	0.3%	0.0%	0.2%	0.6%	0.5%	0.6%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%
Toys other	0.5%	0.0%	0.3%	0.0%	0.0%	0.0%	0.2%	0.1%	0.2%	0.0%	0.0%	0.0%	0.8%	0.0%	0.5%
Tyres	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
White goods: air conditioner	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Category	Council 1			Council 2			Council 3			Council 4			Council 5		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
White goods: fridge/freezer	0.0%	0.0%	0.0%	0.0%	2.1%	0.8%	1.7%	1.3%	1.6%	0.4%	6.1%	0.9%	5.2%	0.0%	3.7%
White goods: dishwasher	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	1.6%	0.4%	0.0%	0.0%	0.0%	0.8%	0.0%	0.6%
White goods: washing machine/ dryer	0.0%	1.4%	0.5%	1.6%	0.0%	0.9%	0.3%	1.6%	0.4%	3.0%	0.0%	2.7%	1.4%	3.4%	2.0%
Wood/timber treated	9.8%	4.8%	8.2%	11.0%	4.4%	8.4%	12.8%	1.8%	11.6%	7.0%	0.0%	6.4%	4.7%	12.4%	6.9%
Wood/timber untreated	0.9%	0.6%	0.8%	0.4%	0.0%	0.2%	1.7%	0.4%	1.5%	1.2%	0.3%	1.1%	0.2%	0.0%	0.1%
Other (specify) incl. suspected commercial waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	0.0%	0.8%	0.0%	0.0%	0.0%
Overweight items (>50kg)	0.6%	0.0%	0.4%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.9%	0.0%	0.8%	0.0%	0.0%	0.0%
Oversize items (>1.5m)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.5%	0.0%	0.0%	0.0%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Category	Council 6			Council 7			Council 8			Region		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
Bagged household waste	6.3%	2.0%	5.7%	3.4%	0.2%	3.1%	4.4%	5.8%	4.4%	4.1%	2.2%	3.9%
Loose household waste	0.4%	0.7%	0.5%	0.5%	0.0%	0.4%	0.1%	0.0%	0.1%	0.2%	0.3%	0.2%
Asbestos	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Batteries - car	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bike / exercise bike	0.4%	0.0%	0.3%	0.8%	0.0%	0.7%	1.0%	0.0%	1.0%	0.8%	0.6%	0.7%
Bric-a-brac	4.5%	4.8%	4.6%	0.6%	0.0%	0.6%	2.7%	0.0%	2.7%	2.5%	2.7%	2.6%
Barbecue	0.3%	0.0%	0.3%	0.3%	0.0%	0.2%	2.5%	0.0%	2.4%	1.3%	0.6%	1.2%
Cardboard	5.8%	8.5%	6.1%	3.6%	15.3%	4.7%	5.0%	0.0%	5.0%	5.6%	10.0%	6.1%
Carpet - mat, rug, underlay <1.5m	1.7%	0.0%	1.5%	1.6%	0.1%	1.5%	1.9%	0.0%	1.9%	2.2%	1.1%	2.1%
Commingled recyclable containers	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
Composite mostly-Plastic	0.8%	1.3%	0.8%	0.1%	0.0%	0.1%	0.8%	0.0%	0.8%	0.6%	0.5%	0.6%
Composite other	0.7%	0.0%	0.6%	2.1%	0.0%	1.9%	3.7%	0.0%	3.7%	2.5%	0.8%	2.3%
E-waste: computer/TVs	0.7%	0.5%	0.6%	0.2%	1.3%	0.3%	0.6%	0.0%	0.6%	0.6%	0.9%	0.7%

Category	Council 6			Council 7			Council 8			Region		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
E-waste: microwave	0.3%	0.1%	0.2%	0.2%	0.0%	0.2%	0.2%	0.0%	0.2%	0.2%	0.1%	0.2%
E-waste: fan/heater	0.1%	0.0%	0.1%	1.0%	0.0%	0.9%	0.4%	2.9%	0.4%	0.6%	3.0%	0.8%
E-waste: vacuum cleaner	0.1%	0.6%	0.2%	0.4%	0.0%	0.4%	0.2%	2.2%	0.2%	0.2%	0.5%	0.2%
E-waste: small household appliances	0.4%	0.3%	0.4%	0.2%	0.0%	0.2%	0.4%	1.4%	0.4%	0.4%	0.5%	0.4%
E-waste: other - tools / garden with cord / battery	0.7%	0.1%	0.6%	1.0%	0.0%	0.9%	0.3%	0.0%	0.3%	0.5%	0.1%	0.5%
Furniture: Wooden	12.7%	9.2%	12.3%	20.4%	25.5%	20.8%	14.8%	25.9%	14.8%	13.4%	12.7%	13.3%
Furniture: Plastic	0.8%	1.1%	0.8%	0.5%	0.0%	0.4%	0.8%	0.0%	0.8%	1.0%	0.5%	1.0%
Furniture: Metal	3.1%	7.0%	3.6%	1.2%	0.0%	1.1%	2.2%	12.9%	2.2%	2.6%	3.9%	2.7%
Furniture: Composite	11.9%	23.5%	13.5%	7.6%	3.8%	7.2%	8.8%	23.0%	8.8%	8.7%	10.6%	8.9%
Children's car seat/booster	0.4%	0.0%	0.4%	0.6%	0.0%	0.5%	0.8%	0.0%	0.8%	0.5%	0.0%	0.5%
Fuels/solvents/chemicals	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.3%	0.1%	0.0%	0.1%
Gas bottles/ extinguishers	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Glass - other	0.1%	0.1%	0.1%	0.5%	0.1%	0.5%	0.2%	0.0%	0.2%	0.2%	0.2%	0.2%
Garden organics excl. tree branches (<100mmD)	2.0%	1.8%	2.0%	0.0%	0.0%	0.0%	2.5%	0.0%	2.5%	2.7%	3.0%	2.7%
Garden organics tree branches (>100mmD)	1.0%	0.0%	0.9%	0.0%	0.0%	0.0%	0.4%	0.0%	0.4%	1.0%	0.3%	1.0%
Insulation	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.2%	0.2%	0.0%	0.1%
Lights - fluorescent	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Lights - fittings /lamps	0.1%	0.0%	0.1%	1.9%	0.0%	1.7%	0.2%	0.0%	0.2%	0.2%	0.2%	0.2%
Luggage	1.3%	1.4%	1.3%	0.6%	0.0%	0.6%	0.7%	0.0%	0.7%	1.1%	2.4%	1.3%
Mattresses	10.5%	3.5%	9.6%	7.1%	46.7%	10.7%	5.6%	0.0%	5.6%	7.7%	7.1%	7.7%
Motor oil	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Paints	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.1%	0.0%	0.0%
Paper/mags/books	0.5%	0.0%	0.5%	0.2%	0.0%	0.2%	0.3%	0.0%	0.3%	0.3%	0.1%	0.3%
Plasterboard	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.2%	0.0%	0.2%	0.1%	0.0%	0.1%
Plastic other	3.7%	3.9%	3.7%	6.4%	1.9%	6.0%	6.4%	11.5%	6.5%	5.3%	3.6%	5.1%
Pram / stroller	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%
Polystyrene	1.2%	0.5%	1.1%	0.3%	1.3%	0.4%	1.9%	0.0%	1.9%	1.3%	1.3%	1.3%

Category	Council 6			Council 7			Council 8			Region		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
PVC pipe etc	0.0%	0.0%	0.0%	1.5%	0.0%	1.4%	0.3%	0.0%	0.3%	0.2%	0.0%	0.2%
Rubble	0.0%	0.2%	0.1%	0.4%	0.0%	0.4%	0.3%	0.0%	0.3%	0.2%	0.1%	0.2%
Rubber and foam	0.7%	0.0%	0.6%	0.2%	0.0%	0.2%	1.0%	14.4%	1.1%	0.7%	0.2%	0.7%
Scrap metal	2.9%	1.0%	2.6%	3.8%	2.5%	3.6%	3.9%	0.0%	3.9%	3.5%	1.9%	3.3%
Scrap metal - car parts	0.0%	0.0%	0.0%	0.2%	0.0%	0.2%	0.1%	0.0%	0.1%	0.1%	0.2%	0.1%
Smoke detectors	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sofa, sofabed, lounge chair	11.9%	6.9%	11.2%	13.2%	0.0%	12.0%	5.9%	0.0%	5.9%	9.6%	12.7%	10.0%
Sporting / camping equipment	0.0%	0.0%	0.0%	0.4%	0.0%	0.4%	0.7%	0.0%	0.7%	0.4%	0.1%	0.4%
Textiles: clothes	0.9%	1.3%	0.9%	0.7%	0.0%	0.6%	1.1%	0.0%	1.1%	0.8%	0.6%	0.8%
Textiles: household furnishings	2.2%	4.4%	2.5%	3.7%	0.8%	3.5%	3.7%	0.0%	3.7%	2.9%	3.7%	3.0%
Toys mainly plastic	0.6%	3.5%	1.0%	0.0%	0.1%	0.0%	0.6%	0.0%	0.6%	0.5%	1.1%	0.5%
Toys other	0.7%	0.0%	0.6%	0.1%	0.0%	0.1%	0.2%	0.0%	0.2%	0.3%	0.0%	0.3%
Tyres	0.1%	0.0%	0.0%	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
White goods: air conditioner	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
White goods: fridge/freezer	0.5%	3.9%	0.9%	5.9%	0.0%	5.4%	1.4%	0.0%	1.4%	1.5%	2.0%	1.6%
White goods: dishwasher	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.1%	0.2%	0.1%
White goods: washing machine/ dryer	1.6%	0.6%	1.5%	0.9%	0.0%	0.8%	1.2%	0.0%	1.2%	1.3%	1.2%	1.3%
Wood/timber treated	3.5%	4.5%	3.6%	3.1%	0.2%	2.8%	6.8%	0.0%	6.8%	6.8%	5.0%	6.6%
Wood/timber untreated	1.1%	0.0%	1.0%	0.6%	0.0%	0.5%	1.2%	0.0%	1.2%	1.2%	0.2%	1.0%
Other (specify) incl. suspected commercial waste	0.4%	0.4%	0.4%	1.6%	0.0%	1.5%	0.9%	0.0%	0.9%	0.6%	0.1%	0.6%
Overweight items (>50kg)	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%
Oversize items (>1.5m)	0.0%	1.8%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.1%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table 32: Average generation by volume (L) by dwelling type

Category	Council 1			Council 2			Council 3			Council 4			Council 5		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
Bagged household waste	4.0	0.1	1.8	14.0	0.3	2.2	29.0	15.7	23.2	24.3	0.1	12.4	10.9	5.5	8.0
Loose household waste	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0	0.7	0.0	0.0	0.0	2.2	0.0	1.0
Asbestos	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Batteries - car	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bike / exercise bike	0.2	0.0	0.1	3.2	0.0	0.4	8.6	0.0	4.9	2.4	5.7	4.0	11.7	1.6	6.4
Bric-a-brac	9.9	0.1	4.3	3.9	4.5	4.4	20.1	3.2	12.8	3.7	0.0	1.9	9.2	4.5	6.7
Barbecue	0.0	0.0	0.0	0.0	0.0	0.0	10.3	8.3	9.5	7.0	0.0	3.5	12.9	0.0	6.1
Cardboard	25.8	10.6	17.2	72.5	6.0	15.0	49.7	32.5	42.3	60.0	0.0	30.6	72.7	34.4	52.4
Carpet - mat, rug, underlay <1.5m	20.9	2.8	10.6	8.2	1.7	2.5	23.9	7.8	16.9	35.6	0.0	18.1	25.6	0.0	12.1
Commingled recyclable containers	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Composite mostly-Plastic	0.8	0.0	0.4	12.5	0.1	1.7	1.5	1.8	1.6	1.5	0.0	0.7	1.8	0.0	0.9
Composite other	5.6	0.2	2.6	1.1	1.2	1.2	48.8	2.8	29.0	5.7	0.0	2.9	14.3	5.5	9.6
E-waste: computer/TVs	0.3	0.1	0.2	0.0	1.6	1.4	12.9	0.8	7.7	2.3	1.4	1.8	7.4	3.8	5.5
E-waste: microwave	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.7	7.3	0.9	4.2	0.0	0.0	0.0
E-waste: fan/heater	2.4	1.4	1.8	4.3	9.8	9.1	12.5	4.4	9.0	2.3	0.5	1.4	15.1	10.3	12.5
E-waste: vacuum cleaner	0.9	0.4	0.6	0.0	0.4	0.3	3.5	1.7	2.7	2.0	0.0	1.0	1.2	0.7	0.9
E-waste: small household appliances	2.4	0.5	1.3	5.9	0.0	0.8	2.3	0.8	1.7	4.0	0.7	2.4	5.6	3.4	4.5
E-waste: other - tools / garden with cord / battery	0.3	0.6	0.5	2.3	0.0	0.3	4.9	0.0	2.8	9.4	0.1	4.8	6.9	0.0	3.3
Furniture: Wooden	29.6	23.2	25.9	146.4	8.7	27.2	103.1	15.3	65.2	101.2	25.1	63.9	94.7	27.4	59.1
Furniture: Plastic	0.0	0.0	0.0	18.2	0.0	2.5	15.8	2.8	10.2	5.1	0.0	2.6	26.2	0.0	12.3
Furniture: Metal	12.1	4.8	8.0	9.8	0.0	1.3	27.4	1.4	16.2	43.9	5.9	25.3	12.2	11.5	11.8
Furniture: Composite	30.8	7.8	17.7	50.0	3.3	9.6	75.5	8.3	46.5	50.4	6.2	28.7	56.2	17.1	35.5
Children's car seat/booster	2.0	0.0	0.9	0.0	0.0	0.0	5.4	0.0	3.1	1.1	0.0	0.6	0.0	0.0	0.0
Fuels/solvents/chemicals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas bottles/ extinguishers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass - other	0.8	0.2	0.4	0.4	0.0	0.0	2.0	1.1	1.6	3.5	0.1	1.8	0.6	0.1	0.3
Garden organics excl. tree branches (<100mmD)	52.0	0.0	22.5	0.0	13.3	11.5	66.1	0.8	37.9	7.0	0.0	3.5	0.1	0.0	0.0

Category	Council 1			Council 2			Council 3			Council 4			Council 5		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
Garden organics tree branches (>100mmD)	8.2	0.0	3.5	0.0	0.0	0.0	53.3	0.7	30.6	1.2	3.2	2.2	0.0	0.0	0.0
Insulation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0	3.7	1.5	0.0	0.7
Lights - fluorescent	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.2	0.0	0.0	0.0	0.1	0.0	0.0
Lights - fittings /lamps	0.0	0.1	0.1	0.0	0.0	0.0	1.6	3.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0
Luggage	3.1	0.8	1.8	1.8	0.6	0.7	17.5	2.2	10.9	9.8	0.0	5.0	23.6	23.3	23.4
Mattresses	21.1	17.2	18.9	107.5	2.2	16.4	124.2	8.3	74.3	74.6	7.6	41.7	15.4	9.6	12.3
Motor oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paints	1.7	0.0	0.7	2.5	0.0	0.3	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Paper/mags/books	1.3	0.0	0.5	0.0	0.0	0.0	0.9	0.4	0.7	1.3	0.1	0.7	4.2	0.8	2.4
Plasterboard	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
Plastic other	29.5	3.7	14.8	23.8	3.4	6.1	51.5	9.2	33.2	39.5	4.4	22.3	35.2	5.6	19.6
Pram / stroller	2.0	0.0	0.9	10.7	0.0	1.4	0.0	0.0	0.0	1.5	0.0	0.7	1.1	1.4	1.2
Polystyrene	4.4	1.5	2.8	0.0	0.0	0.0	13.1	9.2	11.4	9.0	0.0	4.6	0.0	4.1	2.2
PVC pipe etc	0.0	0.3	0.2	0.0	0.0	0.0	1.8	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Rubble	1.2	0.0	0.5	2.2	0.0	0.3	3.6	0.0	2.1	1.5	0.0	0.8	1.1	1.0	1.0
Rubber and foam	1.5	0.0	0.6	12.9	0.4	2.1	7.4	0.0	4.2	2.5	0.0	1.3	1.4	0.0	0.7
Scrap metal	17.5	1.9	8.7	11.4	0.9	2.3	56.6	7.9	35.6	17.8	0.0	9.1	11.7	8.7	10.1
Scrap metal - car parts	1.1	0.0	0.5	0.0	0.2	0.2	1.6	0.0	0.9	4.4	0.0	2.2	1.5	2.7	2.2
Smoke detectors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sofa, sofabed, lounge chair	25.4	39.1	33.2	154.6	14.4	33.3	132.6	36.1	91.0	115.2	8.2	62.7	70.8	17.8	42.8
Sporting / camping equipment	7.0	0.0	3.0	0.0	0.0	0.0	8.7	1.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0
Textiles: clothes	1.5	0.0	0.7	0.0	0.2	0.1	7.3	1.1	4.6	3.9	0.0	2.0	0.7	1.0	0.8
Textiles: household furnishings	8.6	8.3	8.4	18.6	2.0	4.2	25.4	6.1	17.1	30.2	7.7	19.1	9.5	3.3	6.2
Toys mainly plastic	1.7	0.5	1.0	2.1	0.0	0.3	7.1	1.1	4.5	0.0	0.0	0.0	0.6	0.0	0.3
Toys other	1.8	0.0	0.8	0.0	0.0	0.0	2.8	0.3	1.7	0.0	0.0	0.0	4.9	0.0	2.3
Tyres	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
White goods: air conditioner	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White goods: fridge/freezer	0.0	0.0	0.0	0.0	1.7	1.4	20.7	2.8	13.0	3.4	5.1	4.2	33.8	0.0	15.9

Category	Council 1			Council 2			Council 3			Council 4			Council 5		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
White goods: dishwasher	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.3	3.4	0.0	0.0	0.0	5.4	0.0	2.5
White goods: washing machine/ dryer	0.0	1.9	1.1	12.5	0.0	1.7	3.2	3.3	3.2	24.1	0.0	12.3	9.2	8.2	8.7
Wood/timber treated	37.7	6.5	20.0	88.2	3.6	15.0	161.0	3.9	93.3	56.8	0.0	28.9	30.3	30.1	30.2
Wood/timber untreated	3.3	0.8	1.9	2.9	0.0	0.4	21.1	0.8	12.3	9.7	0.3	5.0	1.1	0.1	0.6
Other (specify) incl. suspected commercial waste	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0	3.7	0.0	0.0	0.0
Overweight items (>50kg)	2.1	0.0	0.9	0.0	0.0	0.0	1.3	0.0	0.7	7.6	0.0	3.9	0.0	0.0	0.0
Oversize items (>1.5m)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	4.1	0.0	2.1	0.0	0.0	0.0
Total	382.7	135.5	242.6	804.5	80.5	177.9	1256.0	211.7	805.7	812.4	83.1	454.6	650.6	243.5	435.3

Category	Council 6			Council 7			Council 8			Region		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
Bagged household waste	117.7	10.6	80.6	27.9	0.1	11.2	93.0	2.1	83.0	40.1	4.3	27.8
Loose household waste	8.1	3.8	6.6	3.7	0.0	1.5	2.6	0.0	2.3	2.1	0.6	1.5
Asbestos	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Batteries - car	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bike / exercise bike	6.7	0.0	4.4	6.7	0.0	2.7	22.0	0.0	19.6	7.7	0.9	5.3
Bric-a-brac	84.6	25.5	64.1	5.2	0.0	2.1	57.1	0.0	50.8	24.2	4.7	18.4
Barbecue	5.8	0.0	3.8	2.1	0.0	0.8	51.6	0.0	45.9	11.2	1.0	8.7
Cardboard	107.7	45.3	86.1	29.1	8.4	16.7	104.9	0.0	93.3	65.3	17.2	44.2
Carpet - mat, rug, underlay <1.5m	31.1	0.2	20.4	12.9	0.1	5.2	40.3	0.0	35.9	24.8	1.6	15.2
Commingled recyclable containers	0.0	1.9	0.7	0.0	0.0	0.0	0.7	0.0	0.6	0.2	0.2	0.2
Composite mostly-Plastic	14.3	7.1	11.8	0.7	0.0	0.3	16.4	0.0	14.6	6.2	1.1	4.0
Composite other	13.2	0.0	8.6	17.3	0.0	6.9	78.0	0.0	69.4	23.0	1.2	16.3
E-waste: computer/TVs	12.2	2.6	8.9	1.8	0.7	1.1	12.4	0.0	11.0	6.2	1.4	4.7
E-waste: microwave	4.7	0.8	3.3	1.8	0.0	0.7	3.5	0.0	3.1	2.3	0.2	1.5

Category	Council 6			Council 7			Council 8			Region		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
E-waste: fan/heater	2.0	0.0	1.3	8.4	0.0	3.4	8.5	1.1	7.6	6.9	3.4	5.8
E-waste: vacuum cleaner	2.7	3.4	3.0	3.2	0.0	1.3	4.7	0.8	4.3	2.3	0.9	1.8
E-waste: small household appliances	6.6	1.8	5.0	1.9	0.0	0.7	8.5	0.5	7.6	4.7	1.0	3.0
E-waste: other - tools / garden with cord / battery	12.8	0.5	8.5	7.9	0.0	3.1	6.6	0.0	5.9	6.4	0.2	3.7
Furniture: Wooden	237.1	48.9	171.9	165.2	14.0	74.2	311.3	9.5	278.0	148.6	21.5	95.7
Furniture: Plastic	14.8	6.0	11.8	3.9	0.0	1.5	17.6	0.0	15.7	12.7	1.1	7.1
Furniture: Metal	57.5	37.2	50.5	9.5	0.0	3.8	45.9	4.7	41.3	27.3	8.2	19.8
Furniture: Composite	222.4	125.3	188.7	61.2	2.1	25.7	184.7	8.4	165.2	91.4	22.3	64.7
Children's car seat/booster	7.9	0.0	5.2	4.9	0.0	2.0	17.7	0.0	15.8	4.9	0.0	3.4
Fuels/solvents/chemicals	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	5.2	0.7	0.0	0.7
Gas bottles/ extinguishers	0.0	0.0	0.0	0.7	0.0	0.3	0.1	0.0	0.1	0.1	0.0	0.0
Glass - other	2.2	0.8	1.7	3.9	0.1	1.6	3.2	0.0	2.9	2.1	0.3	1.3
Garden organics excl. tree branches (<100mmD)	37.2	9.4	27.5	0.1	0.0	0.0	51.7	0.0	46.0	26.8	3.0	18.6
Garden organics tree branches (>100mmD)	18.4	0.0	12.0	0.0	0.0	0.0	7.4	0.0	6.6	11.1	0.5	6.9
Insulation	0.2	0.0	0.1	0.0	0.0	0.0	3.8	0.0	3.4	1.6	0.0	1.0
Lights - fluorescent	0.6	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Lights - fittings /lamps	2.4	0.0	1.5	15.2	0.0	6.0	3.2	0.0	2.8	2.8	0.4	1.6
Luggage	24.0	7.5	18.3	5.0	0.0	2.0	15.4	0.0	13.7	12.5	4.3	9.5
Mattresses	195.8	18.9	134.5	57.2	25.6	38.2	117.8	0.0	104.8	89.2	11.2	55.1
Motor oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paints	0.3	0.0	0.2	0.2	0.0	0.1	1.2	0.0	1.1	0.8	0.0	0.3
Paper/mags/books	10.0	0.0	6.5	1.7	0.0	0.7	6.1	0.0	5.4	3.2	0.2	2.1
Plasterboard	0.0	0.0	0.0	1.1	0.0	0.4	3.9	0.0	3.4	0.8	0.0	0.6
Plastic other	69.3	20.8	52.5	52.3	1.0	21.5	135.5	4.2	121.0	54.6	6.5	36.4
Pram / stroller	2.2	0.0	1.4	0.0	0.0	0.0	2.4	0.0	2.1	2.5	0.2	1.0
Polystyrene	21.5	2.6	14.9	2.6	0.7	1.5	40.3	0.0	35.9	11.4	2.3	9.2

Category	Council 6			Council 7			Council 8			Region		
	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total	SUD	MUD	Total
PVC pipe etc	0.2	0.0	0.1	12.3	0.0	4.9	5.7	0.0	5.0	2.5	0.0	1.4
Rubble	0.5	1.2	0.7	3.2	0.0	1.3	6.1	0.0	5.4	2.4	0.3	1.5
Rubber and foam	13.1	0.0	8.5	1.4	0.0	0.6	22.0	5.3	20.2	7.8	0.7	4.8
Scrap metal	54.0	5.2	37.1	30.4	1.4	13.0	82.2	0.0	73.1	35.2	3.2	23.6
Scrap metal - car parts	0.2	0.0	0.1	1.4	0.0	0.6	1.9	0.0	1.7	1.5	0.4	1.0
Smoke detectors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sofa, sofa bed, lounge chair	221.5	36.8	157.5	107.0	0.0	42.7	124.6	0.0	110.8	119.0	19.1	71.7
Sporting / camping equipment	0.0	0.0	0.0	3.5	0.0	1.4	14.1	0.0	12.5	4.2	0.2	2.8
Textiles: clothes	16.1	7.2	13.0	5.7	0.0	2.3	22.7	0.0	20.2	7.2	1.2	5.5
Textiles: household furnishings	40.5	23.2	34.5	30.2	0.5	12.3	78.4	0.0	69.7	30.2	6.4	21.5
Toys mainly plastic	11.9	18.9	14.3	0.3	0.1	0.1	12.2	0.0	10.8	4.5	2.6	3.9
Toys other	13.0	0.0	8.5	0.5	0.0	0.2	3.5	0.0	3.1	3.3	0.0	2.1
Tyres	1.0	0.0	0.7	1.4	0.0	0.6	0.0	0.0	0.0	0.4	0.0	0.2
White goods: air conditioner	2.4	0.0	1.6	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.2
White goods: fridge/freezer	9.5	20.5	13.3	47.9	0.0	19.1	28.9	0.0	25.7	18.0	3.8	11.6
White goods: dishwasher	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.3	1.3	0.4	0.9
White goods: washing machine/ dryer	30.3	3.4	21.0	7.4	0.0	2.9	25.0	0.0	22.2	14.0	2.1	9.1
Wood/timber treated	65.1	23.8	50.8	25.3	0.1	10.1	143.5	0.0	127.6	76.0	8.5	47.0
Wood/timber untreated	21.3	0.0	13.9	4.6	0.0	1.9	26.2	0.0	23.3	11.3	0.2	7.4
Other (specify) incl. suspected commercial waste	7.7	1.9	5.7	13.3	0.0	5.3	19.3	0.0	17.2	6.0	0.2	4.0
Overweight items (>50kg)	2.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.9
Oversize items (>1.5m)	0.0	9.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.2	0.7
Total	1863.9	532.3	1402.6	810.9	54.8	356.2	2104.0	36.6	1875.6	1085.6	172.2	718.8