East Gippsland Shire Council Waste Audit



Final Report: March 2025

Be the change B-Alternative



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B-Alternative wishes to acknowledge the Traditional Custodians of the lands on which our team members work and live, predominantly lands belonging to the Wadawurrung, Gunai Kurnai, Woiwurrung and Boonwurrung people of the Kulin nations.

We wish to pay our respects now and always to Elders past, present and future, and acknowledge that sovereignty was never ceded.







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Executive Summary

B-Alternative conducted two waste audits of kerbside residential bins, public place bins and regional trailers for the East Gippsland Shire Council in 2024 & 2025.

The first audit was conducted during off peak season in September/October 2024 (Audit One) and the second was conducted during peak season January 2025 (Audit Two). Two audits were conducted with the aim to better understand resident waste production, contamination rates and the impact of seasonal visitors on waste collected across East Gippsland Shire Council.

In both Audit One and Audit Two the following were audited:

- 50 general waste, 50 recycling and 50 general waste household bins across five locations - Bairnsdale, Lakes Entrance, Paynesville, Mallacoota and East Bairnsdale auditing 750 household bins in total during each audit. FOGO (Mallacoota only).
- 125 General Waste and 60 recycling public place bins across two locations Lakes Entrance and Paynesville - auditing 185 public place bins in total during each audit.

In Audit One only, one general waste and one recycling trailer from Gelantipy and one general waste trailer from Genoa transfer stations were also audited.

Collections were coordinated in single truck runs with Tambo Waste, the existing service provider.

For both audits the aggregation method was used as requested by East Gippsland Shire Council. This involved collections being audited all together per waste stream rather than bagged and household number recorded. The resulting data provides a general understanding of the region rather than individual results.

The data measured the composition of general waste, recyclables and green waste bins in kilograms and accurately measured contamination rates. Estimations on the volume of waste composition have also been calculated and used in analysis where considered necessary for more meaningful data analysis.

Data was separated into the following classifications as per the Council's request: primary and secondary classifications (see Appendix 1) and then analysed as correctly disposed, incorrectly disposed, potentially recoverable. B-Alternative has also analysed what waste could be considered avoidable.



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Key Findings:

FOOD WASTE IN LANDFILL: The largest category of waste in the General Waste stream across all locations, with an average of 22% of General Waste stream.

CONTAMINATION RATES: 28% contamination across all locations.

RECYCLING RATES: approximately 80% of all paper & cardboard and glass materials are being recycled. Only 60% of recyclable plastics and metal are being placed in the correct recycling bin.

SEASONAL IMPACT: increase in tonnage of recycling and general waste across all locations during summer period, especially public bins. Reduction in Green Waste.

POTENTIALLY RECOVERABLE: 65% of items disposed of incorrectly are potentially recoverable through existing council streams and services.

AVOIDABLE: an average of 40% of items disposed of are avoidable with different consumer choices and resident behaviour.

Key Recommendations:

COMMUNICATION RECOMMENDATIONS:

- 1. Utilise community events
- 2. Activations in community areas
- 3. Engaging Senior Citizens and the art community
- 4. Utilising university / TAFE students studying locally
- 5. Engage local Traditional Owners to share their message about taking care of country. Especially in side their own communities and ask what they want from council.

FOOD WASTE RECOMMENDATIONS:

- 1. Home Composting
- 2. Local Community Composting Hubs
- 3. FOGO Rollout
- 4. Home of the Future Program, developed in further detail in this report.

The report also includes recommendations for CDS, Takeaway Packaging, Soft Plastics, Nappies & Pads, Tetrapaks and Pill packets.

Our total emissions for both audits was 4050.6206 kg of CO2, which is equivalent to planting approximately 83 trees. B-Alternative has partnered with East Gippsland Landcare Group to support the revegetation of the Carpentry Street project in Lakes Entrance. A total of 120 trees with stakes and tree guards will be planted throughout the area.



Methodology



SAMPLE CONFIGURATION

KERBSIDE COLLECTIONS

250 collections were audited from each house-hold waste stream made up of the following configuration:

- 180 collections from an urban environment
- 70 collections from a rural environment
- Auditing 750 bins total across three waste streams

LOCATIONS

- Bairnsdale 50 x General Waste, 50 x Recycling, 50 x Green Waste.
- Lakes Entrance 50 x General Waste, 50 x Recycling, 50 x Green Waste.
- Paynesville 50 x General Waste, 50 x Recycling, 50 x Green Waste.
- Mallacoota 50 x General Waste, 50 x Recycling, 50 x Green Waste.
- East Bairnsdale 50 x General Waste, 50 x Recycling, 50 x Green Waste.

PUBLIC PLACE BINS

185 bins were audited from public places made up of the following configuration:

- 125 General Waste
- 60 Recycling bins

Locations:

- Lakes Entrance: 75 x General Waste, 40 x Recycling.
- Paynesville: 50 x General Waste, 20 x Recycling.

TRANSFER STATIONS

2 transfer stations trailers were audited during Audit One only in the following configuration:

Locations:

- Gelantipy 1 x General Waste, 1 x Recycling.
- Genoa 1 x General Waste.

SCHEDULE

AUDIT ONE: Off Peak / Shoulder Season Week One: 16th - 20th September 2024 Week Two: 23th - 27th September 2024 Week Three: 14th & 16th October 2024

AUDIT TWO: Peak Season

Week One: 6th – 10th January 2025 Week Two: 13th – 17th January 2025

Please see Appendix 2 for detailed schedule.



COLLECTION LOGISTICS

KERBSIDE BINS

Collections were coordinated in single truck runs with Tambo Waste, the existing service provider. Tambo Waste worked seamlessly with B-Alternative to coordinate collection of samples and deliver to Bairnsdale, Lakes Entrance and Mallacoota Transfer stations as required with minimal disruption to regular services.

PUBLIC BINS

A sample of 185 public waste bins was required in the request for quotation. These were delivered in single truck runs to the Bairnsdale transfer station as below:

- Lakes Entrance: 75 x General Waste and 40 x Recycling
- Paynesville: 50 x General Waste and 20 x Recycling

In the Second Audit, 20 Recycling bins were dropped off on Wednesday and then a further 40 Recycling bins were dropped off on Friday, meaning 20 extra were received. As a result B-Alternative only audited half of the waste that was dropped on Friday.

TRAILERS

The 3x3m trailer from Gelantipy was audited in Bairnsdale and had two compartments - one for recycling and one for general waste. The trailer from Genoa was audited in Cann River and it was all general waste.

STAFFING

Where possible staff were sourced from the East Gippsland Region, along with skilled B-Alternative staff who travelled from other areas in Victoria and some staff from Bega region who travelled down to Mallacoota site.

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SORTING

Sample sorting was undertaken at the Bairnsdale Landfill and Recycling, Lakes Entrance and Mallacoota Transfer stations. A site-specific safety induction was conducted at the Bairnsdale, Lakes Entrance and Mallacoota transfer stations where the physical auditing took place.

BAIRNSDALE

Sorting was conducted in a large shed with waste being placed into Nelly bins once sorted and weighed.

LAKES ENTRANCE

Sorting was conducted in the open air with waste being placed into 240L bins once sorted and weighed. During the second audit, all auditing that was previously conducted at Lakes Entrance was conducted at Bairnsdale due to the exposed nature of the Lakes Entrance transfer station and the concern for staff wellbeing during peak summer heat. This involved some extra coordination on the part of Tambo Waste – we thank them for their cooperation.

MALLACOOTA

Mallacoota was set up under cover with all the sorted resources placed into 240lt wheely bins and a front end loader used to take to the relevant skips with BA staff assistance.





DATA

AGGREGATION METHOD

For both audits the aggregation method was used as requested by EGSC. This involved collections being audited all together per waste stream rather than bagged and household number recorded. The resulting data provides a general understanding of the region rather than individual household results, maintaining privacy of residents.



SORTING CLASSIFICATIONS

On site, B-Alternative sorted, weighed and recorded data in the Secondary Classifications provided by EGSC. The data was later classified into Primary Classifications. See Appendix 1 for an amalgamated list of the tables provided by EGSC in RFQ Appendix A. Please also see Appendix 3 for materials accepted by the EGSC as of March 2025. The data measured the composition of general waste, recyclables and green waste bins in kilograms. The data has been collated into excel Master Data and Raw Data files supplied to the council.

The following data was also collected:

- Number of bins
- Location of bin collection
- Total weight of bin contents

REPORTING CLASSIFICATIONS & ANALYSIS

After the audit, analysis was conducted on the data recorded. Calculations have been performed to accurately measure contamination rates, composition and waste generation trends. Data was separated into the following classifications as per the Council's request:

CORRECTLY DISPOSED	Items that were placed in the correct bin according to EGSC guidelines and do not contaminate the waste stream.	
INCORRECTLY DISPOSED	Items that were not in the correct waste stream according to EGSC guidelines or will not be accepted when taken to the Materials Recovery Facility (MRF) (e.g. recyclables in a plastic bag, heavily soiled cardboard).	
POTENTIALLY RECOVERABLE	Items that were placed in the incorrect bin and could be a recovered resource if disposed of correctly or at transfer station (e.g. recyclables in the general waste/polystyrene / e-waste / batteries)	
AVOIDABLE	B-Alternative has also analysed what waste could be considered AVOIDABLE rather than simply disposed of correctly or diverted from Landfill. There is great potential for the complete avoidance of certain items from being purchased in the community or avoided through various reusable or waste free alternatives.	



VOLUME ESTIMATIONS

Estimations on the volume of waste composition have been made and used in analysis where it was considered necessary for more meaningful data analysis. Calculations of volume are an estimate to within 10% accuracy.

REQUESTED STREAM ANALYSIS

EGSC expressed their interest in specific stream analysis of the following items which have been included in the Mid Project Summary Report and have also been included in this final report:

- Tetrapak
- Pill blister packs
- Nappies

This section not only offers insights but also demonstrates the range of tailored recommendations, from immediate actions to long-term strategies for sustainable waste management.

PHOTOGRAPHIC DOCUMENTATION

Photographic documentation was also taken during the audit, capturing images of bins, streams, basic, primary and secondary classifications. Some have been included in this report. For all others <u>please see the gallery</u> of images supplied by BA for use by EGSC.

EMISSIONS RECORDING

B-Alternative also recorded emissions usage by staff during the audit for travel, food and power consumption. Further information can be found in the Carbon Calculations section of this report.

PROGRESS REPORTING

Progress reporting on the auditing totals was provided on the Monday following sorting weeks keeping the Council informed of weekly progress. A Mid Project Summary report that captured topline data from Audit One was supplied to the council in November 2025.

The report covered the following:

- Methodology
- Carbon Emissions Offsets
- Mid-ProjectOverview
- Summary of Collections in Kilograms & Litres
- Summary of Disposal in Kilograms & Litres
- Potentially Recoverable in Kilograms & Litres, along with Pathways
- General Waste Composition in Kilograms
- Recycling Composition in Kilograms
- Green Waste Composition in Kilograms
- Avoidable Waste in Kilograms & Discussion
- Requested Stream Analysis on Pill Blister Packets, Tetrapaks, Nappies & Pads





LIMITATIONS

SURVEY METHOD

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. With a small sample there is always a slight chance of collecting waste from households that are not representative of the whole population.

WEIGHT BASED LIMITATIONS

The data for the audit was recorded based on weight. This can make lighter materials like soft plastics seem less significant. While weight is the standard and most reliable method for collecting accurate data across various types of materials, we have calculated estimates on volume and used in our reporting and analysis where necessary and more meaningful.

SEASONAL COMPARISON LIMITATIONS

Audit One was split across three weeks due to the Grand Final Public Holiday and Term 3 school holidays and the resulting visitors to the East Gippsland shire for holiday making. Ideally the off peak audit would have been conducted early in the year during June, July, August. However, the contract was awarded on 23 August 2025 and work commenced as soon as feasible. Conducting the audit at a true off peak time would have allowed for clearer comparison between Audit One and Audit Two and also allowed for more direct comparison to data collected in June/July 2021 by A.Prince Consulting (APC) Pty Ltd.

AGGREGATE METHOD LIMITATIONS

There are several positives of utilising the aggregation method in context of a residential waste audit in comparison to paired bins/ tagged bag methods including appropriate sample size, minimisation of OH&S concerns, more efficient logistics and sorting processes. However, there are also some limitations to using this approach.

- 1. Loss of Detail & Context: Aggregating data can mask important details and variations within the dataset. For example, if utilising per household or "bag and tag" method instead, any skew bins that were 50-80% contamination indicating incorrect usage of the kerbside bin could be identified, rather than affecting overall average.
- 2. Oversimplification: By summarising data into a single number or group, important distinctions between different variables or categories might be overlooked. This can make the results seem more uniform than they actually are.
- 3. Potential for Misinterpretation: If the aggregated data isn't broken down or analysed further, it can be easily misinterpreted. For example, trends in one subgroup might get diluted when combined with others, leading to inaccurate conclusions.
- 4. Bias in Data Representation: When data is aggregated, it may favour larger or more common groups while underrepresenting smaller, less common, or more diverse groups. This can create a distorted view of the overall situation.
- 5. Loss of Context: Aggregating data without considering the underlying context (such as time, location, or demographic differences) may lead to misleading conclusions.





Findings & Analysis

Collections in Weight



Table 1: Summary of Audit One Collections in Kilograms

SUM of Kilos	Stream			
Collection Location	Green Waste	Landfill	Recycling	Grand Total
Bairnsdale	1137.70	467.60	392.50	1997.80
East Bairnsdale	1175.00	668.90	587.25	2431.15
Lakes Entrance	1153.20	444.47	426.60	2024.27
Mallacoota	837.60	305.60	327.10	1470.30
Paynesville	1228.00	468.91	278.65	1975.56
Public Bins – Lakes Entrance		209.00	94.60	303.60
Public Bins - Paynesville		448.65	205.90	654.55
Trailer – Gelantipy		41.60	10.20	51.80
Trailer – Genoa		422.71		422.71
Grand Total	5531.50	3477.44	2322.80	11331.74

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Table 2: Summary of Audit Two Collections in Kilograms

SUM of Kilos	Stream			
Collection Location	Green Waste	Landfill	Recycling	Grand Total
Bairnsdale	729.60	648.70	332.72	1711.02
East Bairnsdale	1157.30	523.10	471.40	2151.80
Lakes Entrance	880.60	789.30	455.70	2125.60
Mallacoota	454.84	438.64	582.90	1476.38
Paynesville	839.40	725.40	731.90	2296.70
Public Bins – Lakes Entrance		1056.70	463.20	1519.90
Public Bins - Paynesville		526.30	307.20	833.50
Grand Total	4061.74	4708.14	3345.02	12114.90



Table 3: Summary of both Audit One & Two in Kilograms

SUM of Kilos	Stream			
Collection Location	Green Waste	Landfill	Recycling	Grand Total
Bairnsdale	1867.3	1116.3	725.22	3708.82
East Bairnsdale	2332.3	1192	1058.65	4582.95
Lakes Entrance	2033.8	1233.77	882.3	4149.87
Mallacoota	1292.44	744.24	910	2946.68
Paynesville	2067.4	1194.31	1126.35	4388.06
Public Bins – Lakes Entrance		1265.7	557.8	1823.5
Public Bins - Paynesville		974.95	513.1	1488.05
Trailer - Gelantipy		41.6	10.2	51.8
Trailer – Genoa		422.71		422.71
Grand Total	9593.24	8185.58	5783.62	23562.44

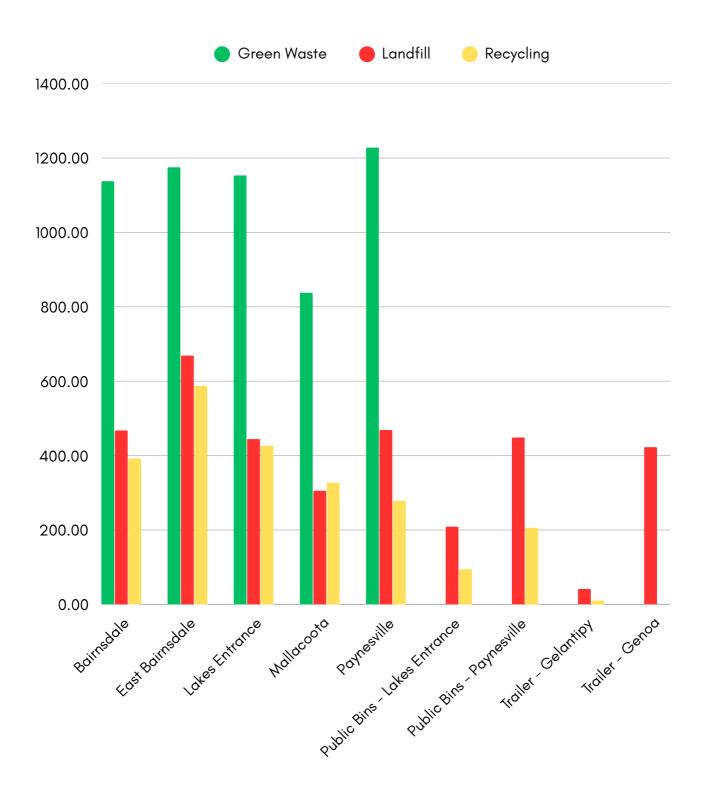


Table 4: Summary of both Audit One & Two in Kilograms

SUM of Kilos	Stream			
Collection Location	Green Waste	Landfill	Recycling	Grand Total
Bairnsdale	1867.3	1116.3	725.22	3708.82
East Bairnsdale	2332.3	1192	1058.65	4582.95
Lakes Entrance	2033.8	1233.77	882.3	4149.87
Mallacoota	1292.44	744.24	910	2946.68
Paynesville	2067.4	1194.31	1126.35	4388.06
Public Bins – Lakes Entrance		1265.7	557.8	1823.5
Public Bins – Paynesville		974.95	513.1	1488.05
Trailer - Gelantipy		41.6	10.2	51.8
Trailer – Genoa		422.71		422.71
Grand Total	9593.24	8185.58	5783.62	23562.44

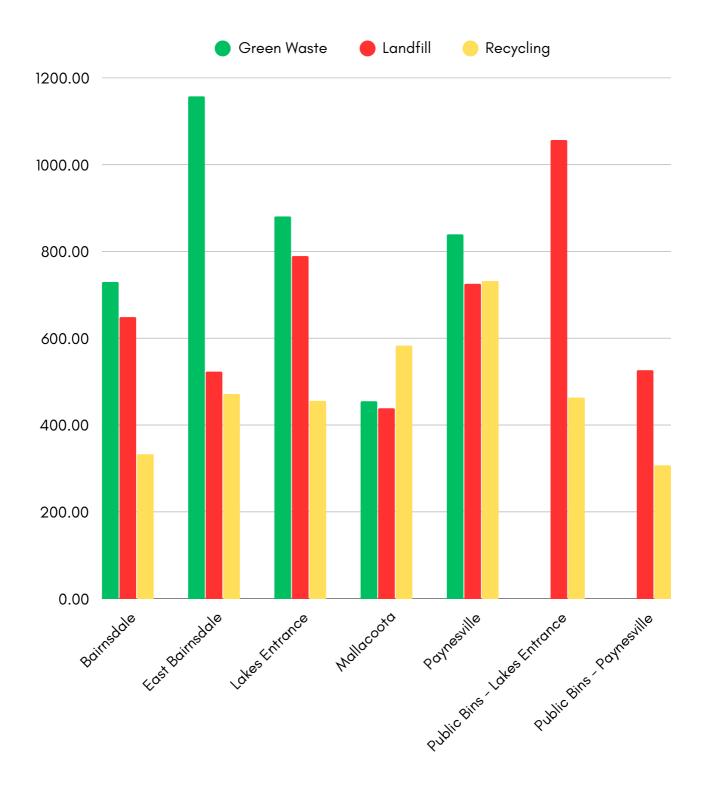


Graph 1: Summary of Audit One Collections in Kilograms





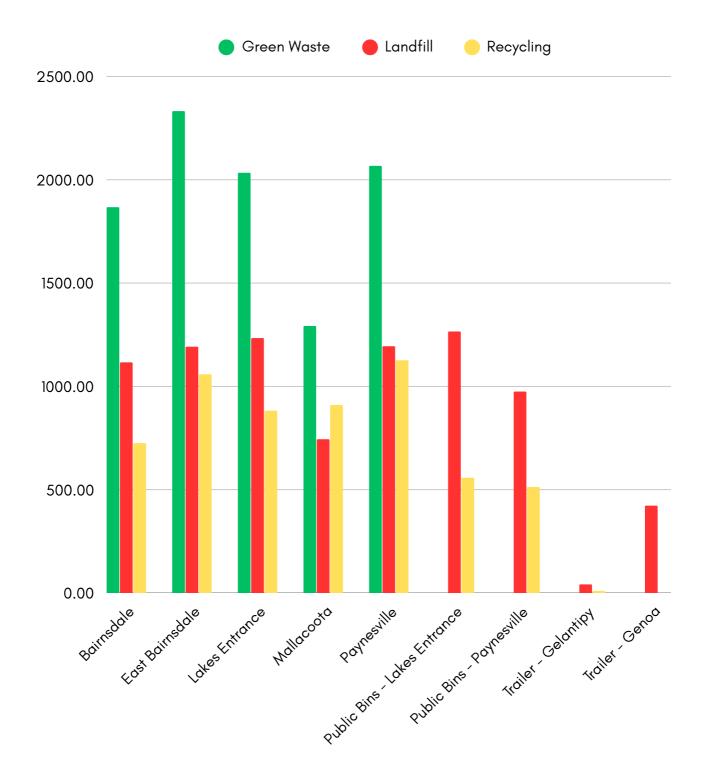
Graph 2: Summary of Audit Two Collections in Kilograms







Graph 3: Summary of both Audits One & Two in Kilograms



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Collections in Volume



Table 5: Summary of Audit One Collections in Litres*

SUM of Litres	Stream			
Collection Location	Green Waste	Landfill	Recycling	Grand Total
Bairnsdale	4368.00	4129.86	5441.52	13939.38
East Bairnsdale	4956.00	6976.20	6099.24	18031.44
Lakes Entrance	5229.00	4007.22	5086.20	14322.42
Mallacoota	4368.00	3184.44	3763.62	11316.06
Paynesville	5082.00	4361.28	4916.10	14359.38
Public Bins – Lakes Entrance		2299.92	1096.62	3396.54
Public Bins - Paynesville		4978.26	1921.92	6900.18
Trailer – Gelantipy		515.34	205.80	721.14
Trailer – Genoa		3139.92		3139.92
Grand Total	24003.00	33592.44	28531.02	86126.46



Table 6: Summary of Audit Two Collections in Litres*

SUM of Litres	Stream			
Collection Location	Green Waste	Landfill	Recycling	Grand Total
Bairnsdale	4779.60	4809.84	4478.04	14067.48
East Bairnsdale	6694.80	6111.00	7445.76	20251.56
Lakes Entrance	5905.20	5993.82	4876.20	16775.22
Mallacoota	2788.80	3861.90	9559.20	16209.9
Paynesville	5405.40	4764.90	7809.90	17980.2
Public Bins – Lakes Entrance		8121.12	5770.80	13891.92
Public Bins - Paynesville		4725.00	3326.40	8051.4
Grand Total	25573.80	38387.58	43266.30	107227.68

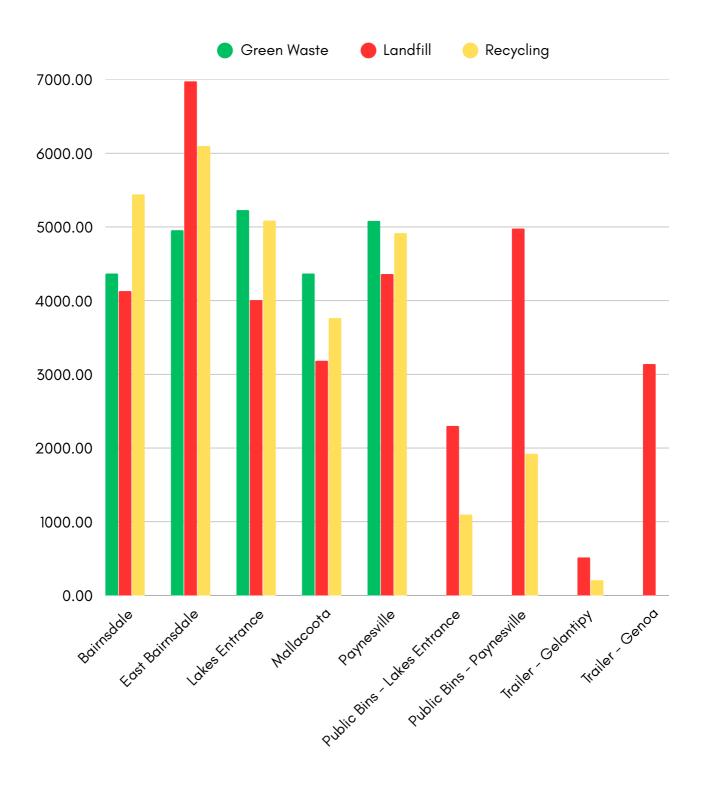


Table 7: Summary of both Audits One & Two in Litres*

SUM of Litres	Stream			
Collection Location	Green Waste	Landfill	Recycling	Grand Total
Bairnsdale	9147.6	8939.7	9919.56	28006.86
East Bairnsdale	11650.8	13087.2	13545	38283
Lakes Entrance	11134.2	10001.04	9962.4	31097.64
Mallacoota	7156.8	7046.34	13322.82	27525.96
Paynesville	10487.4	9126.18	12726	32339.58
Public Bins – Lakes Entrance		10421.04	6867.42	17288.46
Public Bins - Paynesville		9703.26	5248.32	14951.58
Trailer - Gelantipy		515.34	205.8	721.14
Trailer – Genoa		3139.92		3139.92
Grand Total	49576.8	71980.02	71797.32	193354.14

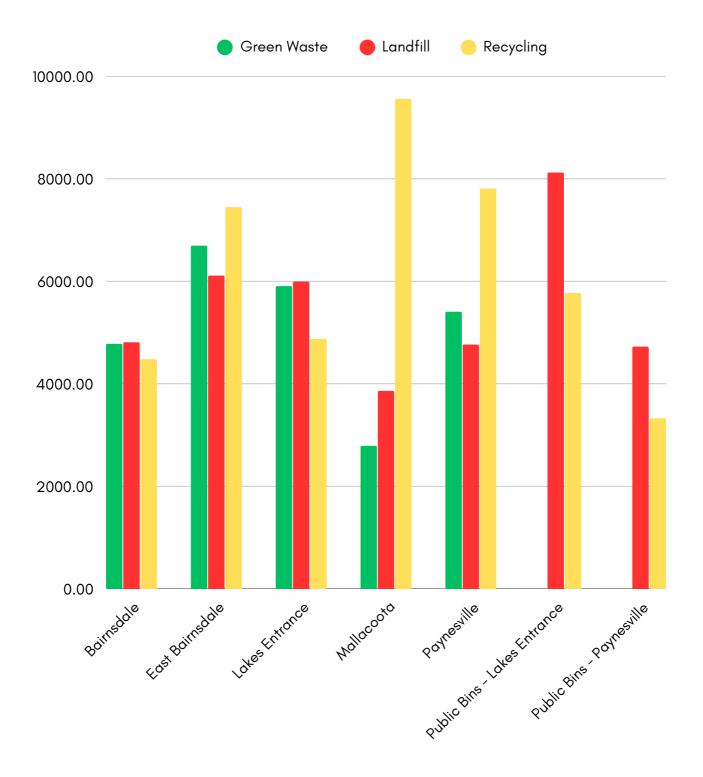


Graph 4: Summary of Audit One Collections in Litres*



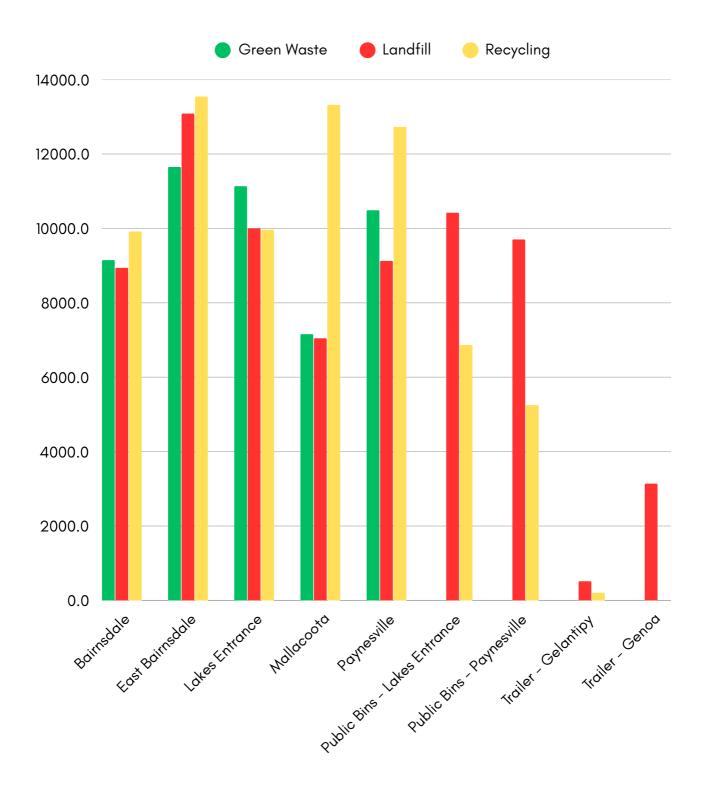


Graph 5: Summary of Audit Two Collections in Litres*





Graph 6: Summary of both Audits One & Two in Litres*



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Overall Waste Generation

Table 8: Overall waste generation comparison in KGs

	Audit One Sept/Oct 2024 (Spring)	Audit Two January 2025 (Summer holidays)	Audit by ACP July 2021 (Winter)
Overall	24.74kg	25.77kg	16.89kg
General Waste	9.42kg	12.5kg	9.44kg
Recycling	4.23kg	5.15kg	4.38kg
Green Waste	11.06kg	8.12kg	3.07kg

Seasonal Comparison

There was an increase of 1.03kg per household from 24.74kg to 25.77kg per week during the peak season in 2025.

General Waste: 32.6% increase (3.08kg) per household from 9.42kg to 12.5kg

Comingled recycling: 2.1% increase (0.92kg) per household from 4.23kg to 5.15kg

Organics: 26.5% decrease (2.94kg) per household from 11.06kg of green waste to 8.12kg

Comparison of July 2021 and Audit One data

An increase of 7.85kg per from 16.89kg to 24.74kg per household, which is primarily explained by the use of the Green Waste bin during spring compared to winter.

General Waste: negligible decrease of 0.02kg from 9.44kg to 9.42kg

Recycling: negligible decrease of 0.15kg from 4.38kg to 4.23kg Green Waste: increase of 7.99kg per week from 3.07kg to 11.06kg

Comparison of July 2021 and Audit Two data

An increase of 8.88kg per from 16.89kg to 25.77kg per household, which is explained by an increase in general waste use and the increased use of Green Waste in summer compared to winter.

General Waste: an increase of 3.06kg from 9.44kg to 12.5kg

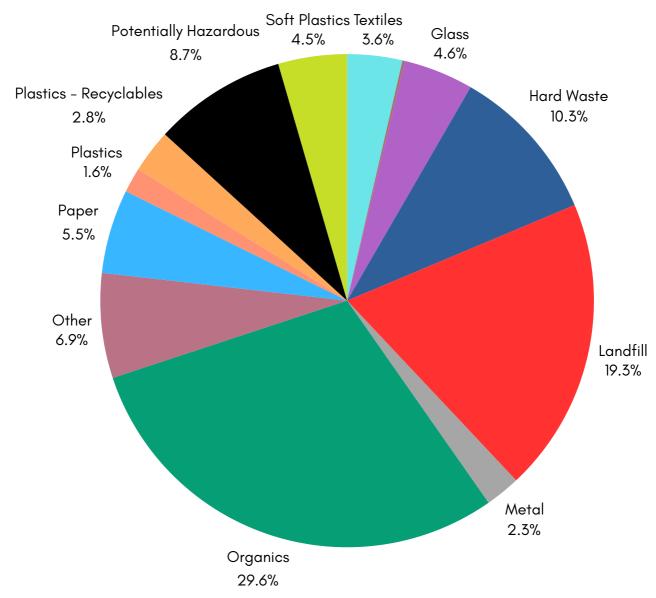
Recycling: an increase of 0.77kg from 4.38kg to 5.15kg

Green Waste: increase of 5.05kg per week from 3.07kg to 8.12kg

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General Waste Composition

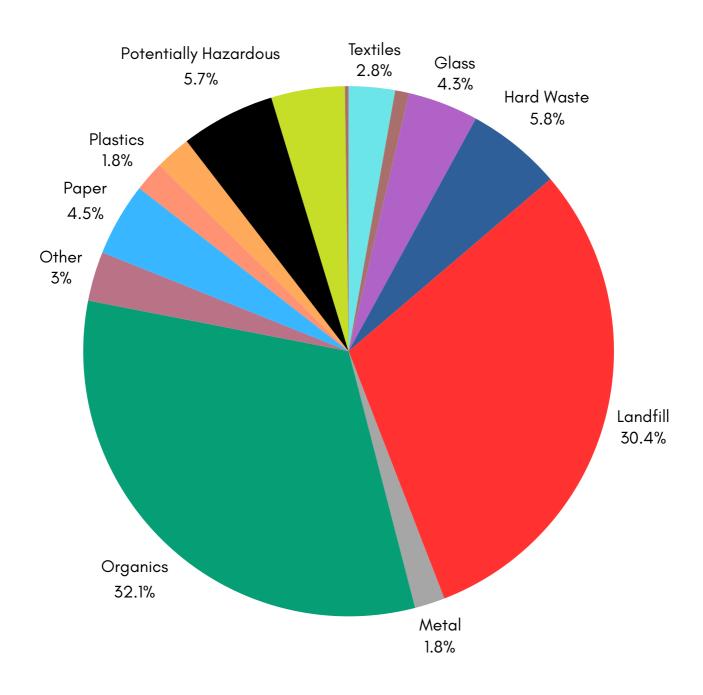
Graph 7: Audit One General Waste Composition at a Glance KGs







Graph 8: Audit Two General Waste Composition at a Glance KGs







Audit One		
Secondary Classification	Kilo	Percentage
Batteries	7.9	0.23
Brown Cardboard	38.7	1.11
Butts	0.5	0.01
Car Oil	0	0.00
CDS Cans	23.1	0.66
CDS Glass	44.7	1.29
CDS Plastics	21.6	0.62
Christmas Paper	0	0.00
Clothes	125.4	3.61
Christmas Misc	0	0.00
Coal	8.2	0.24
Coated Cardboard	61.5	1.77
Coffee Cups / Bevs	19.9	0.57
Coffee Pods	3.8	0.11
Compost Packaging	5.4	0.16
Concrete	6.8	0.20
Construction	170.7	4.91
Contaminated Cardboard	0	0.00
Cooking items	27.1	0.78
Dead Animals	30.6	0.88
Dust	3	0.09
Ewaste	10.6	0.30
Foil	10.9	0.31
Food waste	782.9	22.51
Glass	114.6	3.30
Green Waste	45.6	1.31
Hard polystyrene	1.3	0.04
Hard Waste	181.3	5.21
Household items	0	0.00
Landfill	560.8	16.13
Misc	24.1	0.69
Mussels		0.00
Nappies/Pads	254	7.30
Paper	91.29	2.63
Pill Packs	3.31	0.10
Pizza boxes	0.51	0.00
Plastics 1	33.74	0.97
Plastics 2	32.8	0.94
Plastics 3	0.9	0.03
Plastics 4	1.1	0.03
Plastics 5	32.4	0.93
Plastics 7	0 0	0.00
Plastics Misc	33	0.00
Poop	106.6	3.07
Soft Plastics	155.38	4.47
Soft Polystyrene	1.15	0.03
Steel cans	45.77	1.32
Take Away Packaging	87.3	2.51
Tetrapak	22.1	0.64
Tissues	95.6	2.75
Whole packaged food	108.9	3.13
Wood		
	41.1	1.18
Grand Total	3477.44	100.00

Audit Two		
Secondary Classification	Kilo	Percentage
Batteries	6.1	0.13
Brown Cardboard	148.44	3.15
Butts	1	0.02
Car Oil	3.2	0.07
CDS Cans	25.87	0.55
CDS Glass	82.74	1.76
CDS Plastics	39.47	0.84
Christmas paper	3.3	0.07
Clothes	132.63	2.82
Christmas misc		0.00
Coal	0	0.00
Coated Cardboard	0	0.00
Coffee Cups / Bevs	29.2	0.62
Coffee Pods	0	0.00
Compost Packaging	39.6	0.84
Concrete	3.8	0.08
Construction	38.99	0.83
Contaminated Cardboard	0.33	0.00
Cooking items	3.3	0.07
Dead Animals	0.5	0.00
Dust	5.05	0.11
Ewaste	30.58	0.65
Foil	14.8	0.31
Food waste	1112.24	23.62
Glass	119.9	2.55
Green Waste	11.2	0.24
Hard polystyrene	2	0.04
Hard Waste	224.19	4.76
Household items	5.8	0.12
Landfill	1280.36	27.19
Misc	1280.30	0.00
Mussels		0.00
	230.34	4.89
Nappies/Pads Paper	61.8	1.31
Pill Packs	3.07	0.07
Pizza boxes		
	10.5	0.22
Plastics 1	35.33	0.75
Plastics 2	28.63	0.61
Plastics 3	0	0.00
Plastics 4	0	0.00
Plastics 5	38.68	0.82
Plastics 7	0	0.00
Plastics Misc	47	1.00
Poop	255.1	5.42
Soft Plastics	210.31	4.47
Soft Polystyrene	0.7	0.01
Steel cans	46.06	0.98
Take Away Packaging	115.92	2.46
Tetrapak	16.2	0.34
Tissues	132.54	2.82
Whole packaged food	97	2.06
Wood	15.2	0.32
Grand Total	4708.14	100.00



GENERAL WASTE ANALYSIS

Audit One 16.13% and Audit Two 27.19% of General Waste audited was actual Landfill.

FOOD WASTE was a main component of the General Waste stream in each audit. In Audit One, 782.9kg across all locations (22.5%) of General Waste audited at each location was food waste, including in Mallacoota (91.7kg or 30%), which has a kitchen to compost service where food waste can be placed into the Green Bin.

In Audit Two, the food waste tonnage in General Waste almost doubled and continued to represent 23% (1112.24kg) of waste audited across all locations. In Mallacoota, food waste totalled 189.54kg making up 43% of the 438.64kg of General Waste audited.

NAPPIES & PADS

After food waste and genuine landfill, nappies and pads were the next highest category of waste audited in the General Waste stream. Audit One 254kg (7.3%) and Audit Two 230kg (4.89%). Recommendations for alternatives are provided in the recommendations.

CDS

In Audit One 89.4kg or 2.5% of General Waste audited were eligible containers and in Audit Two 148.08kg or 3.1% of General Waste audited were eligible containers.

CO-MINGLED RECYCLING

In each audit approximately 12% of audited general waste could have been recycled in kerbside recycling – Audit One 448.9kg and Audit Two 565.12kg.

CLOTHES

Clothing continues to be present, even though op shops and upcycling options are available to residents Audit One – 125kg and Audit Two – 132kg.

HAZARDOUS MATERIALS

E-Waste - we saw an increase of 19.91kg from Audit One (10.6kg) to Audit Two (30.58kg) of E-waste.

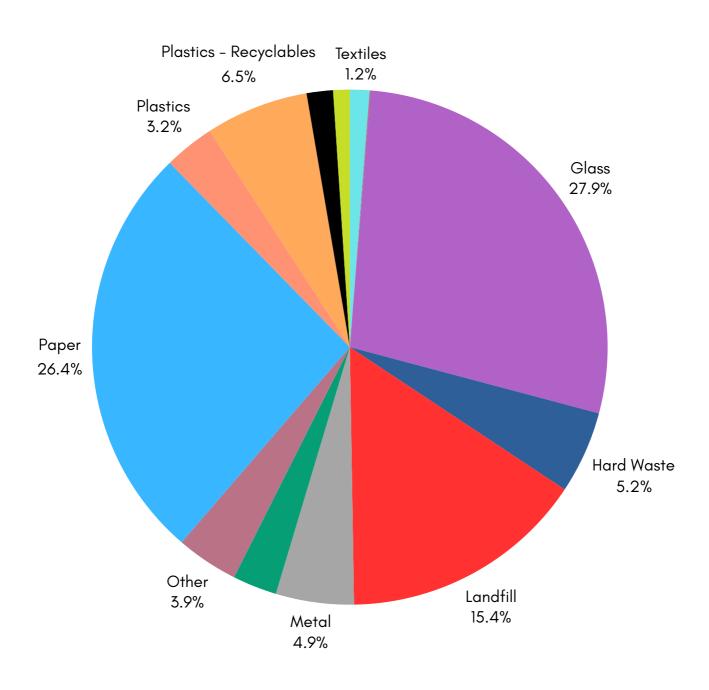
Batteries – in each audit batteries continued to be present, even though there are accessible options for safe recycling. It is important residents are informed of the hazards of disposing of batteries in their kerbside recycling and the potential for fires in collection trucks.





Recycling Composition

Graph 9: Audit One Recycling Composition at a Glance in Kilograms



Be The Change, B-Alternative



Graph 10: Audit Two Recycling Composition at a Glance in Kilograms

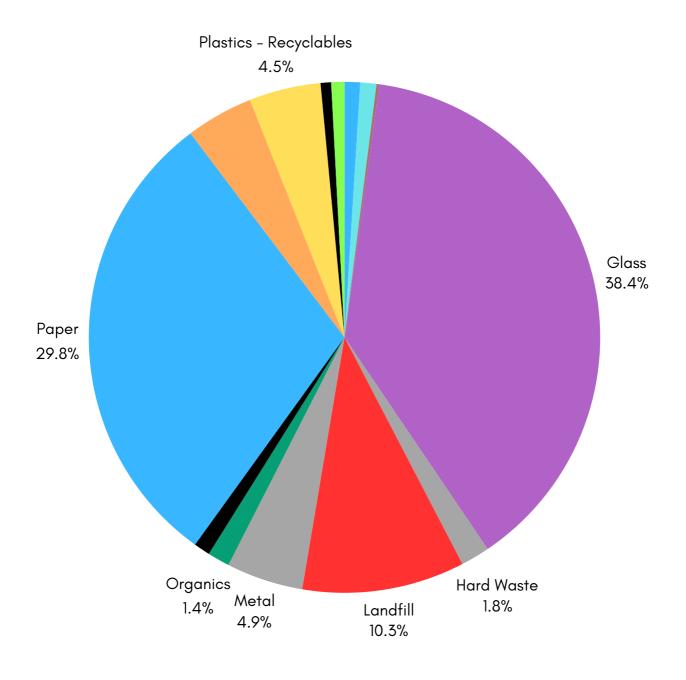






Table 10: Recycling Waste by Secondary Classification **KGs & Percentage**

Secondary Classification	Kilos	Percentage
Batteries	0	0.00
Brown Cardboard	142.6	5.85
Butts	0.05	0.00
CDS Cans	40.9	1.68
CDS Glass	221.2	9.07
CDS Plastics	51.5	2.11
Christmas misc	5.4	0.22
Christmas paper	8.4	0.34
Clothes	28.5	1.17
Coal	1.2	0.05
Coated Cardboard	196.8	8.07
Coffee Cups / Bevs	10	0.41
Coffee Pods	0	0.00
Compost Packaging	1.2	0.05
Concrete	0	0.00
Construction	23.4	0.96
Contaminated Cardboard	16.7	0.68
Cooking items	9.6	0.39
Dust	0.4	0.02
Ewaste	25.7	1.05
Foil	0.3	0.01
Food waste	40.2	1.65
Glass	426	17.47
Green Waste	0	0.00
Hard polystyrene	0.7	0.03
Hard Waste	96.9	3.97
Landfill	339.65	13.93
Nappies/Pads	12.7	0.52
Paper	357.6	14.66
Pill Packs	1.4	0.06
Pizza boxes	0	0.00
Plastics 1	47.4	1.94
Plastics 2	74.5	3.06
Plastics 3	0.6	0.02
Plastics 4	0.4	0.02
Plastics 5	32.2	1.32
Plastics 7	0.1	0.00
Plastics Misc	25.2	1.03
Poop	23.5	0.96
Soft Plastics	24.5	1.00
Soft Polystyrene	0.2	0.01
Steel cans	77	3.16
Take Away Packaging	22.5	0.92
	25.1	1.03
Tetrapak Tissues	0.7	0.03
		1.62
Whole packaged food	39.5	
Wood	0	0.00

Audit Two		
Secondary Classification	Kilos	Percentage
Batteries	1.7	0.05
Brown Cardboard	705.3	21.09
Butts	0	0.00
CDS Cans	86.8	2.59
CDS Glass	361.9	10.82
CDS Plastics	93.2	2.79
Christmas misc	5.4	0.16
Christmas paper	8.4	0.25
Clothes	34.1	1.02
Coal	0	0.00
Coated Cardboard	0	0.00
Coffee Cups / Bevs	18.3	0.55
Coffee Pods	0	0.00
Compost Packaging	5.8	0.17
Concrete	0	0.00
Construction	0	0.00
Contaminated Cardboard	0	0.00
Cooking items	7	0.21
Dust	0	0.00
Ewaste	11.2	0.33
Foil	1.1	0.03
Food waste	25	0.75
Glass	921.3	27.54
Green Waste	16.4	0.49
Hard polystyrene	0.72	0.02
Hard Waste	61.2	1.83
Landfill	256.8	7.68
Nappies/Pads	9.3	0.28
Paper	290.7	8.69
Pill Packs	0.3	0.01
Pizza boxes	33	0.99
Plastics 1	46.5	1.39
Plastics 2	80.5	2.41
Plastics 3	0	0.00
Plastics 4	0	0.00
Plastics 5	24.7	0.74
Plastics 7	0	0.00
Plastics Misc	49.2	1.47
Poop	5.5	0.16
Soft Plastics	27.8	0.83
Soft Polystyrene	0	0.00
Steel cans	74.4	2.22
Take Away Packaging	54.9	1.64
Tetrapak	22.4	0.67
Tissues	0	0.00
Whole packaged food	4.2	0.13
Wood	0	0.00
Grand Total	3345.02	100.00
S. Silve Total	0040.02	100.00

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Table 11: Combined Audit One & Two Recycling Primary Classifications by Location - KGs

Primary Classification	Bairnsdale	East Bairns.	Lakes Ent.	Mallacoota	Paynesville
Cardboard	1.4	6.7	3.6	7.4	8
Textiles	0.4	34.6	11.1	1.5	9.9
Compost Packaging	0	0	0	0	0
Glass	180.4	171	285.1	460.8	328.8
Hard Waste	22	31.8	66.9	13.4	12.4
Landfill	73.1	214.55	97.2	28	137.55
Metal	30.7	39.8	33	54.9	61.9
Organics	21.3	61.6	1.6	2.1	9.3
Other	18.62	46.5	18.1	10.3	29.8
Paper	287.4	290.7	271.1	250.1	405.2
Plastics	26	34.2	32.3	33	45.5
Plastics - Recyclables	57.1	70	47.6	40.9	58.6
Hazardous	0.9	41.2	6.6	2.9	5.8
Soft Plastics	5.9	16	8.1	4.7	13.6
Grand Total	725.22	1058.65	882.3	910	1126.35



Table 12: Combined Audit One & Two Recycling Primary **Classifications by Location - Litres**

Primary Classification	Bairnsdale	East Bairnsdale	Lakes Entrance	Mallacoota	Paynesville
Cardboard	42	273	84	420	168
Clothing / Textiles	12.6	222.6	84	16.8	8.4
Compost Packaging	0	0	0	0	0
Glass	632.1	735	978.6	1986.6	1134
Hard Waste	252	222.6	525	84	151.2
Landfill	898.8	1676.22	751.8	592.2	1222.2
Metal	506.52	773.22	772.8	1432.62	1108.8
Organics	138.6	222.6	21	25.2	33.6
Other	481.32	354.9	382.2	378	697.2
Paper	3880.8	4586.4	3150	4968.6	4069.8
Plastics	751.8	1096.2	1100.4	1541.4	1558.2
Plastics - Recyclables	2116.8	2646	1768.2	1638	2121
Potentially Hazardous	2.52	228.06	58.8	29.4	33.6
Soft Plastics	203.7	508.2	285.6	210	420
Grand Total	9919.56	13545	9962.4	13322.82	12726



Table 13: Contamination Rates using KGs

Location	Audit One	Audit Two
Average across EGSC	33.75%	21.48%
Bairnsdale	20.5%	26.4%
Lakes Entrance	29.9%	25.03%
Mallacoota	11.7%	9.86%
Paynesville	25.2%	22.4%
East Bairnsdale	63.7%	22.4%
Public Bins – Lakes Ent	20.4%	20.6%
Public Bins - Paynesville	38.9%	30.2%

Table 14: Recycling Rates of Key Materials across EGSC

Material Audit One		Audit Two
Glass	80.2%	85.7%
Metal	59.7%	64.3%
Paper & Cardboard	78.4%	78%
Plastics Recyclables	60.8%	59.6%

RECYCLING ANALYSIS



Recycling Generation per household

Households on average produced 8.5kg recycling per fortnight during Audit One. Of this approximately 33.75% or 2.8kg was contamination. During Audit Two, the household recycling waste generated increased by 21% to 10.29kg per household per fortnight however, the average contamination decreased to 21.48% or 2.2kg.

Suburb Comparison

While looking at overall generation rates in somewhat helpful, Table ** shows the vast difference between the collection locations and resident behaviour. In both audits Mallacoota recorded the lowest contamination rates of 11.7% and 9.86%. In Audit One East Gippsland recorded the highest contamination rate of 63.7%. In reviewing the data there is no outlying reason for this high statistic. The overall waste generation for East Gippsland reduced during Audit Two which suggests that a significant portion of residents were not home during the summer holiday period, and holiday goers were not situated in this area.

Top 5 Contaminants in Residential Waste by Kilograms

- 1. Landfill 10.43% of audited recycling was landfill.
- 2. Hard waste 2.92% of audited recycling was hard waste.
- 3. Unrecyclable Plastics 1.45% of audited recycling was unrecyclable plastics.
- 4. Clothing 1.22% of audited recycling was clothing.
- 5. Food Waste 1.14% of audited recycling was food waste.

Top 5 Contaminants in Residential Waste by Litres

- 1. Landfill 5.67% of audited recycling was landfill.
- 2. Unrecyclable Plastics 4.05% of audited recycling was unrecyclable plastics.
- 3. Soft Plastics 2.73% of audited recycling was soft plastics.
- 4. Tetrapak 2.54% of audited recycling was unrecyclable Tetrapaks.
- 5. Takeaway Packaging 2.25% was take away food packaging.

Recyclable Composition

- 1. Paper & Cardboard 31.99% of audited recycling was paper & cardboard.
- 2. Glass 20.39% of audited recycling was recyclable glass.
- 3. CDS 13.81% of audited recycling were Container Deposit Scheme containers.
- 4. Recyclable Plastics 5.83% of audited recycling was recyclable plastics.
- 5. Steel 2.96% of audited recycling was recyclable steel.

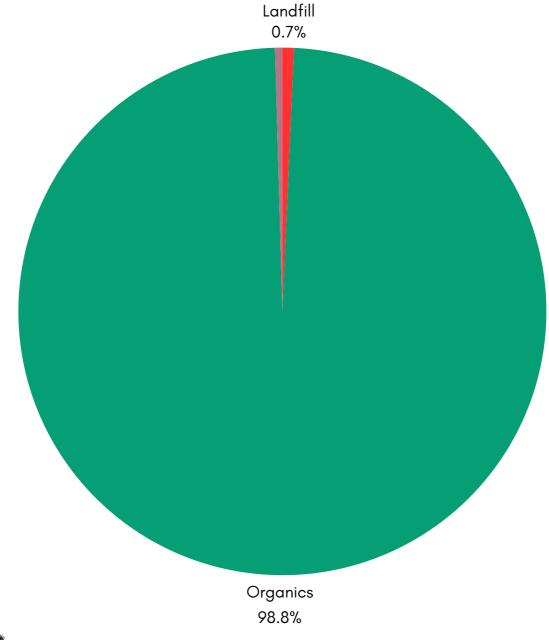
Recycling Rates

Residents of EGSC are recycling approximately 80% of all paper & cardboard and glass materials in the correct recycling bin. Only 60% of recyclable plastics and metal are being placed in the correct recycling bin.



Green Waste Composition

Graph 11: Audit One Green Waste Composition at a Glance in Kilograms





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Graph 12: Audit Two Green Waste Composition at a Glance in Kilograms

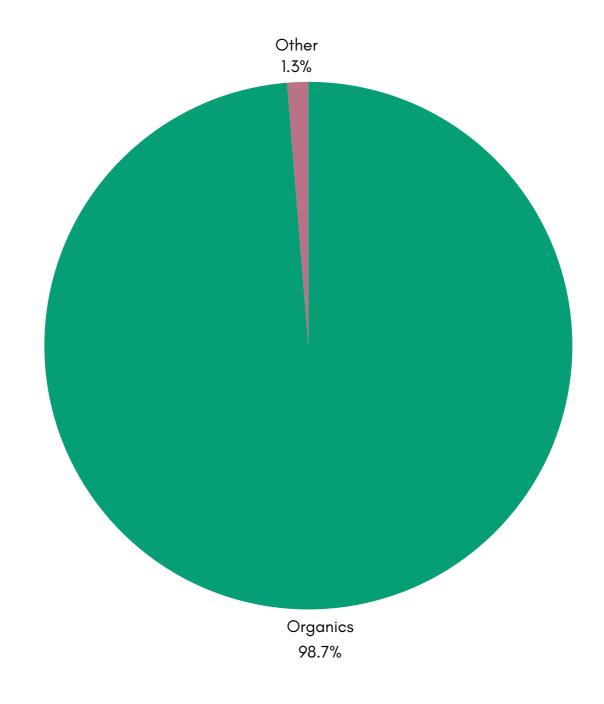




Table 15: Green Waste Composition by KGs & Percentage

Audit One		
Secondary Classification	Kilos	Percentage
Cans	0	0.00
Cardboard	0	0.00
Food waste	98.1	1.77
Glass	0	0.00
Green Waste	5367.2	97.03
Landfill	39.2	0.71
Misc	2.2	0.04
Mussels	2.3	0.04
Paper	9.6	0.17
Poop	4.2	0.08
Wood	8.5	0.15
Grand Total	5531.5	100.00

Grand Total	4061.74	100.00
Wood	0	0.00
Poop	4.2	0.10
Paper	9.6	0.24
Mussels	0	0.00
Misc	2.9	0.07
Landfill	21.4	0.53
Green Waste	3920.18	96.51
Glass	11.29	0.28
Food waste	84.99	2.09
Cardboard	4.08	0.10
Cans	3.1	0.08
Secondary Classification	Kilos	Percentage
Audit Two		



Table 16: Mallacoota Food Waste by KGs & Percentage

Food Waste	Kilos	Percentage of disposal
Green Waste	55	37.5%
Recycling	0	0
General Waste	91.7	62.5%
Audit One Total	146.7	100
Green Waste	33.09	14.7%
Recycling	2	0.9%
General Waste	189.54	84.4%
Audit Two Total	224.63	100.00



GREEN WASTE ANALYSIS

The Green Waste stream is by far the most successful waste stream in terms of weight and volume of recovery and contamination rates. It is evident that the Garden Organics service is mature and established in EGSC among residents.

Food Waste

During Audit One the contamination rate was 2.97%, with 1.77% of this being food waste. During Audit Two, the contamination rate was a little higher at 3.45% with 2.09% being food waste.

Seasonal Impact

During Audit Two (the holiday season) there was also contamination of items such as cans, cardboard, glass that were not present as contaminants during Audit One, suggesting impact by visitors to the area.

The tonnage of Green Waste collected across the 750 households also reduced by 26% or 1469.76kg, which can be expected during a holiday period.

Mallacoota - Kitchen to Compost

In Mallacoota, which offers a Kitchen to Compost service, only 55kg (37.5%) of food waste was disposed of in Green Waste during Audit One while 91.7kg (62.5%) was disposed of in General Waste.

During Audit Two, 189.54kg (84.4%) of disposed food waste was placed in the General Waste. This suggests that more education and communication to residents and holiday goers is required for the program to impact food recycling rates in the area.

However, it is important to note that Mallacoota experiences low food waste contamination in the recycling bin, with 0kg of food waste in their recycling stream during Audit One and only 2kg in Audit Two.

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Public Bins



Table 17: Public Bins by Primary Classification and Stream Audit One - KGs

Audit One		Stream		
Collection Location	Primary Classification	Landfill	Recycling	Grand Total
Public Bins - Lakes Entrance	Clothing / Textiles	2.9	0	2.9
	Compost Packaging	5.1	1.2	6.3
	Glass	17.7	53.7	71.4
	Hard Waste	3.9	0	3.9
	Landfill	64.8	12.6	77.4
	Metal	4.6	5	9.6
	Organics	58.3	0.2	58.5
	Other	12.2	0.3	12.5
	Paper	15.2	13.6	28.8
	Plastics	7.5	4.3	11.8
	Plastics - Recyclables	2.9	3	5.9
	Potentially Hazardous	6.7	0	6.7
	Soft Plastics	7.2	0.7	7.9
Public Bins - Lakes Entrance Total		209	94.6	303.6
Public Bins - Paynesville	Clothing / Textiles	15.7	0	15.7
	Compost Packaging	0	0	0
	Glass	41.8	88.6	130.4
	Hard Waste	69.7	26.8	96.5
	Landfill	104.4	46.4	150.8
	Metal	15.4	6.9	22.3
	Organics	105.9	1.8	107.7
	Other	16.2	1.9	18.1
	Paper	27.6	25.6	53.2
	Plastics	8.3	3.3	11.6
	Plastics - Recyclables	19.4	4.6	24
	Potentially Hazardous	10.9	0	10.9
	Soft Plastics	13.35	0	13.35
Public Bins - Paynesville Total		448.65	205.9	654.55
Audit One Total		657.65	300.5	958.15

Public Bins



Table 18: Public Bins by Primary Classification and Stream Audit One - KGs

SUM of Kilos	Audit Two		Stream		
Audit	Collection Location	Primary Classification	Landfill	Recycling	Grand Total
	Public Bins - Lakes Entrance	Cardboard	6.9	1.7	8.6
		Clothing / Textiles	21.2	5.1	26.3
		Compost Packaging	39.6	0	39.6
		Glass	53.6	227.5	281.1
		Hard Waste	44.7	0	44.7
		Landfill	615.3	56	671.3
		Metal	17.1	35.1	52.2
		Organics	119.6	2.6	122.2
		Other	7.1	2.8	9.9
		Paper	38.4	87.3	125.7
		Plastics	17.4	28	45.4
		Plastics - Recyclables	13.9	15.8	29.7
		Potentially Hazardous	33.2	0.1	33.3
		Soft Plastics	28.7	1.2	29.9
	Public Bins - Lakes Entrance Total		1056.7	463.2	1519.9
	Public Bins - Paynesville	Cardboard		4.2	4.2
		Clothing / Textiles	11.6	0	11.6
		Compost Packaging	0	5.8	5.8
		Glass	53.2	133.1	186.3
		Hard Waste	20.1	5.9	26
		Landfill	185.1	50.6	235.7
		Metal	16.4	12.6	29
		Organics	96.3	10.8	107.1
		Other	32.9	0.9	33.8
		Paper	39.9	56.9	96.8
		Plastics	18.7	13.5	32.2
		Plastics - Recyclables	12.6	7.5	20.1
		Potentially Hazardous	14.9	3.1	18
		Soft Plastics	24.6	2.3	26.9
	Public Bins - Paynesville Total		526.3	307.2	833.5
	Audit Two Total		1583	770.4	2353.4
Grand Total			2240.65	1070.9	3311.55



PUBLIC BINS ANALYSIS

Seasonal Impact

The weights audited from each location increased dramatically between the two audits, indicating an increased use of public bins during peak summer season.

Lakes Entrance experienced an increase of 847.7kg from 209kg to 1056kg in General Waste and an increase of 1216.3kg from 303kg to 1519kg in Recycling.

Paynesville experienced an increase of 77.65kg from 448kg to 526kg in General Waste and an increase of 179kg from 654kg to 833kg in Recycling.

Food Waste

Second to landfill, food waste was the largest component of audited General Waste in both locations representing 27.8% at Lakes Entrance and 23.6% at Paynesville during Audit One and 11.3% at Lakes Entrance and 18.2% in Paynesville during Audit Two.

Potentially Hazardous

There were findings of potentially hazardous items found in General Waste stream across both locations during each audit - a total of 17.6kg in Audit One and 48.1kg in Audit Two.

Recycling Contamination Rates

Lakes Entrance Audit One = 20.4% Paynesville Audit One = 38.9%

Lakes Entrance Audit Two = 20.6% Paynesville Audit Two = 29.9%

Top 5 contaminants:

- 1. Landfill
- 2. Food Waste
- 3. Hard Waste
- 4. Potentially Hazardous
- 5. Clothing

Trailers



Table 19: Gelantipy Waste Trailers - Audit One - KGs

SUM of Kilos	Stream		
Primary Classification	Landfill	Recycling	Grand Total
Clothing / Textiles	0.8	0	0.8
Compost Packaging	0	0	0
Glass	4.6	1.4	6
Hard Waste	13	2.3	15.3
Landfill	11.3	0	11.3
Metal	0.5	0.6	1.1
Organics	3.7	0	3.7
Other	0.6	0	0.6
Paper	2.7	5.1	7.8
Plastics	0.5	0.1	0.6
Plastics - Recyclables	1.4	0.7	2.1
Potentially Hazardous	0	0	0
Soft Plastics	2.5	0	2.5
Grand Total	41.6	10.2	51.8

Table 20: Genoa Waste Trailer - Audit One - KGs

SUM of Kilos	Stream	
Primary Classification	Landfill	Grand Total
Clothing / Textiles	50.8	50.8
Compost Packaging	0	0
Glass	31.4	31.4
Hard Waste	144.9	144.9
Landfill	41.5	41.5
Metal	11	11
Organics	56.3	56.3
Other	19.71	19.71
Paper	18.7	18.7
Plastics	5	5
Plastics - Recyclables	11.3	11.3
Potentially Hazardous	15.3	15.3
Soft Plastics	16.8	16.8
Grand Total	422.71	422.71

TRAILERS ANALYSIS



GELANTIPY

General Waste

Landfill made up 27.16% or 11.3kg of audited waste in the Gelantipy General Waste trailer.

Hard waste was the largest component making up 31.25% or 13kg.

Recyclables – glass, plastic recyclables, metal and paper/cardboard – totalled 9.2kgs and made up 22% of the General Waste trailer.

Recycling Contamination

Hard Waste was the only real contaminant in the recycling trailer at Gelantipy (2.3kg) making up 22.5% of total audited waste.

Recycling Rates

Glass - 23% of glass was placed into the recycling trailer, 77% in General Waste.

Metal - 54% of metal was placed into the recycling trailer, 46% in General Waste.

Paper - 65% of paper was placed into the recycling trailer, 35% in General Waste.

Recyclable Plastics - 33% were placed in the recycling trailer, 66% in General Waste

GENOA

General Waste

Hard waste was the largest component of the audited waste from the Genoa General Waste trailer totalling 144.9kg, making up 34% of trailer waste.

Recyclables - glass, plastic recyclables, metal and paper - totalled 72.4kg making 17% of audited waste.

Food waste was the next highest component totalling 56.3kg or 13%.

Clothing / textiles was also a large component of the trailer making up 12% or 50.8kg.

There was also 15.3kg of potentially hazardous material present in the trailer.

HARD WASTE

Hard waste was the largest component in both General Waste trailers, and the second largest in the Recycling trailer which suggests residents may be using these trailers as a dumping ground.







Food Waste Findings

Table 21: Food Waste Analysis in KGs by Locations

Location	Audit	Green Waste	Landfill	Recycling	Grand Total
Bairns, Lakes Entrance, East Bairns, Paynes.	Audit one	43.1	554.9	40.2	638.2
Bairns, Lakes Entrance, East Bairns, Paynes.	audit two	51.9	747.2	11.6	810.7
Mallacoota	audit one	55	91.7	0	146.7
Mallacoota	audit two	33.09	189.54	2	224.63



FOOD WASTE ANALYSIS

Bairnsdale, Lakes Entrance, East Bairnsdale & Paynesville

- During Audit One and Audit Two, 27% (554.9kg) of waste audited in the General Waste stream across these four locations was food waste.
- Positively, food waste only accounted for 2% (40.2kg) of waste contamination in the recycling stream during Audit One and only 0.5% (11.6kg) in Audit Two across these four locations.
- The tonnage of food waste increased by 34.65% (192.3kg) from Audit One to Audit
- Across four suburbs during Audit One 6% of food waste was disposed of in Green Waste, 6% in Recycling and 88% in Landfill and during Audit Two 6% in Green Waste, 1% in Recycling and 93% in Landfill.

Mallacoota

- During Audit One 30% (91.7kg) of waste audited in the General Waste stream was food waste. This increased to 43% (189.54kg) during Audit Two.
- The tonnage of food waste found in the landfill stream more than doubled during Audit Two increasing from 91.7kg to 189.54kg, an increase of 106%.
- Positively there was zero contamination of the recycling stream attributed to food waste in Mallacoota during Audit One and a small amount of 2kg or 0.3% during Audit Two.

Kitchen to Compost (K2C) effectiveness @ Mallacoota

- Audit One: 55kg or 37% of food waste was placed into the FOGO bin, 0% placed into recycling bin and remaining 63% placed into Landfill bins.
- Audit Two: 33.09kg or 14% of food waste was placed into the FOGO bin, 1% placed in the recycling bin and remaining 85% placed into Landfill bins.



CDS Findings

Table 22: CDS by Location per Audit by KGs

SUM of Kilos		Collection Location				
Secondary Classification	Audit	Bairnsdale	East Bairnsdale	Lakes Entrance	Mallacoota	Paynesville
CDS Cans	Audit One	4.7	10.8	8.5	5.1	13.1
	Audit Two	3.5	7.6	7.2	14.87	23.4
CDS Cans Total		8.2	18.4	15.7	19.97	36.5
CDS Glass	Audit One	34.3	28.4	49.9	43.1	30.1
	Audit Two	15.3	40.3	60.6	126.94	82.1
CDS Glass Total		49.6	68.7	110.5	170.04	112.2
CDS Plastics	Audit One	8.2	23.4	11.1	7.5	8
	Audit Two	11.4	16.2	17.5	9.47	17.4
CDS Plastics Total		19.6	39.6	28.6	16.97	25.4
Grand Total		77.4	126.7	154.8	206.98	174.1

Table 23: CDS in Public Bins & Trailers per Audit by KGs

SUM of Kilos						
Secondary Classification	Audit	Public Bins - LE	Public Bins - PV	Trailer - Gelantipy	Trailer - Genoa	Grand Total
CDS Cans	Audit One	7.3	7.5	0.2	6.8	64
	Audit Two	39.5	16.6			112.67
CDS Cans Total		46.8	24.1	0.2	6.8	176.67
CDS Glass	Audit One	15.7	49.8	1.4	13.2	265.9
	Audit Two	49.8	69.6			444.64
CDS Glass Total		65.5	119.4	1.4	13.2	710.54
CDS Plastics	Audit One	7.4	5.7	0.1	1.7	73.1
	Audit Two	39.2	21.5			132.67
CDS Plastics Total		46.6	27.2	0.1	1.7	205.77
Grand Total		158.9	170.7	1.7	21.7	1092.98



Table 24: Audit One CDS by Stream, Location - KGs and Litres

			Stream	Values				
			Landfill		Recycling		Grand Total	
Audit	Secondary Classification	Collection Location	SUM of Kilos	SUM of Litres	SUM of Kilos	SUM of Litres	SUM of Kilos	SUM of Litres
Audit One	CDS Cans	Bairnsdale	1.4	35.7	3.3	126	4.7	161.7
		East Bairnsdale	5.3	252	5.5	210	10.8	462
		Lakes Entrance	0.1	2.52	8.4	294	8.5	296.52
		Mallacoota	0.3	7.56	4.8	168	5.1	175.56
		Paynesville	1.9	48.3	11.2	336	13.1	384.3
		Public Bins - Lakes Entrance	2.9	126	4.4	126	7.3	252
		Public Bins - Paynesville	4.2	126	3.3	126	7.5	252
		Trailer - Gelantipy	0.2	5.04	0	0	0.2	5.04
		Trailer - Genoa	6.8	168			6.8	168
	CDS Cans Total		23.1	771.12	40.9	1386	64	2157.12
	CDS Glass	Bairnsdale	2.6	42	31.7	126	34.3	168
		East Bairnsdale	6.8	128.1	21.6	126	28.4	254.1
		Lakes Entrance	0	0	49.9	210	49.9	210
		Mallacoota	1.3	2.1	41.8	210	43.1	212.1
		Paynesville	1.9	3.78	28.2	210	30.1	213.78
		Public Bins - Lakes Entrance	0	0	15.7	42	15.7	42
		Public Bins - Paynesville	18.9	126	30.9	126	49.8	252
		Trailer - Gelantipy	0	0	1.4	2.1	1.4	2.1
		Trailer - Genoa	13.2	84			13.2	84
	CDS Glass Total		44.7	385.98	221.2	1052.1	265.9	1438.08
	CDS Plastics	Bairnsdale	0.8	28.98	7.4	252	8.2	280.98
		East Bairnsdale	8.8	252	14.6	336	23.4	588
		Lakes Entrance	0.7	25.2	10.4	378	11.1	403.2
		Mallacoota	1.6	46.2	5.9	210	7.5	256.2
		Paynesville	1	37.8	7	252	8	289.8
		Public Bins - Lakes Entrance	3.3	105	4.1	126	7.4	231
		Public Bins - Paynesville	3.7	126	2	84	5.7	210
		Trailer - Gelantipy	0	0	0.1	4.2	0.1	4.2
		Trailer - Genoa	1.7	84			1.7	84
	CDS Plastics Total		21.6	705.18	51.5	1642.2	73.1	2347.38
Audit One Total			89.4	1862.28	313.6	4080.3	403	5942.58

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Table 25: Audit Two CDS by Stream, Location - KGs and Litres

			Stream	Values				
			Landfill		Recycling		Grand Total	
Audit	Secondary Classification	Collection Location	SUM of Kilos	SUM of Litres	SUM of Kilos	SUM of Litres	SUM of Kilos	SUM of Litres
Audit Two	CDS Cans	Bairnsdale	0.9	50.4	2.6	79.8	3.5	130.2
		East Bairnsdale	2	54.6	5.6	184.8	7.6	239.4
		Lakes Entrance	3	105	4.2	134.4	7.2	239.4
		Mallacoota	0.97	44.1	13.9	739.2	14.87	783.3
		Paynesville	3	100.8	20.4	415.8	23.4	516.6
		Public Bins - Lakes Entrance	8.7	210	30.8	693	39.5	903
		Public Bins - Paynesville	7.3	252	9.3	319.2	16.6	571.2
	CDS Cans Total		25.87	816.9	86.8	2566.2	112.67	3383.1
	CDS Glass	Bairnsdale	4	6.3	11.3	42	15.3	48.3
		East Bairnsdale	2.6	8.4	37.7	168	40.3	176.4
		Lakes Entrance	14.3	54.6	46.3	180.6	60.6	235.2
		Mallacoota	4.04	33.6	122.9	613.2	126.94	646.8
		Paynesville	6.2	23.1	75.9	264.6	82.1	287.7
		Public Bins - Lakes Entrance	24.6	96.6	25.2	126	49.8	222.6
		Public Bins - Paynesville	27	159.6	42.6	189	69.6	348.6
	CDS Glass Total		82.74	382.2	361.9	1583.4	444.64	1965.6
	CDS Plastics	Bairnsdale	1.5	37.8	9.9	294	11.4	331.8
		East Bairnsdale	3.6	88.2	12.6	474.6	16.2	562.8
		Lakes Entrance	3.3	105	14.2	424.2	17.5	529.2
		Mallacoota	1.47	56.7	8	512.4	9.47	569.1
		Paynesville	5.1	88.2	12.3	499.8	17.4	588
		Public Bins - Lakes Entrance	14.4	331.8	24.8	924	39.2	1255.8
		Public Bins - Paynesville	10.1	294	11.4	289.8	21.5	583.8
	CDS Plastics Total		39.47	1001.7	93.2	3418.8	132.67	4420.5
Audit Two Total			148.08	2200.8	541.9	7568.4	689.98	9769.2
Grand Total			237.48	4063.08	855.5	11648.7	1092.98	15711.78

Table 26: CDS Recycling Rates by KGs and Litres

		Landfill				Recycling				Grand Total	
	Secondary Classification	SUM of Kilos	Percentage	SUM of Litres	Percentage	SUM of Kilos	Percentage	SUM of Litres	Percentage	SUM of Kilos	SUM of Litres
	CDS Cans Total	23.1	36.09 %	771.12	35.75%	40.9	63.91%	1386	64.25%	64	2157.12
	CDS Glass Total	44.7	16.81 %	385.98	26.84%	221.2	83.19%	1052.1	73.16%	265.9	1438.08
	CDS Plastics Total	21.6	29.55%	705.18	30.04%	51.5	70.45%	1642.2	69.96%	73.1	2347.38
Audit One Total		3477.44	30.38 %	33592.44	39.00%	2438.6	21.30%	28531.02	33.13%	11447.54	86126.46
	CDS Cans Total	25.87	22.96 %	816.9	24.15%	86.8	77.04%	2566.2	75.85%	112.67	3383.1
	CDS Glass Total	82.74	18.61 %	382.2	19.44%	361.9	81.40%	1583.4	80.56%	444.64	1965.6
	CDS Plastics Total	39.47	29.75 %	1001.7	22.66%	93.2	70.25%	3418.8	77.34%	132.67	4420.5
Audit Two Total		4708.14	38.86 %	38387.58	35.80%	3345.02	27.61%	43266.3	40.35%	12114.9	107227.68

CDS ANALYSIS



CDS Volume

Audit One - CDS containers made up 39% of General Waste volume and 33.13% of Recycling volume.

Audit Two - CDS containers made up 35.80% of General Waste volume and 27.61% of Recycling volume.

Recycling Rate of CDS

Audit One

CDS Cans: 64.25% of CDS Cans were recycled, 35.75% were placed in General Waste. CDS Glass: 73.16% of CDS Glass were recycled, 26.84% were placed in General Waste. CDS Plastic: 69.96% of CDS Plastic were recycled, 30.04% were placed in General Waste.

Audit Two

CDS Cans: 75.85% of CDS Cans were recycled, 24.15% were placed in General Waste. CDS Glass: 80.56% of CDS Glass were recycled, 19.44% were placed in General Waste. CDS Plastic: 77.34% of CDS Plastic were recycled, 22.66% were placed in General Waste.

Seasonal Impact

The results show an increase in all forms of CDS containers in audited waste at Mallacoota, Paynesville Public Bins and Lakes Entrance Public bins which demonstrates the impact of seasonal visitors to these highly visited areas.

Bairnsdale, East Bairnsdale, Lakes Entrance each experienced a decrease in CDS cans.

Bairnsdale was the only suburb to record a decrease of CDS glass. All other locations recorded a large increase in CDS glass.

East Bairnsdale was the only suburb to record a decrease of CDS plastics. All other locations recorded an increase in CDS plastics.



Soft Plastics Findings

Table 27: Soft Plastics in Streams by Litres

Collection Location	Landfill	% of Landfill	Recycling	% of Recycling
Bairnsdale	1608.6	17.99%	201.6	2.03%
East Bairnsdale	1486.8	11.36%	508.2	3.75%
Lakes Entrance	1776.6	17.6%	285.6	2.8%
Mallacoota	1268.4	18%	210	1.57%
Paynesville	1507.8	16.5%	420	3.3%
Public Bins – Lakes Entrance	856.8	8.2%	126	1.8%
Public Bins – Paynesville	924	9.5%	96.6	1.8%
Trailer - Gelantipy	84	16.2%	0	0%
Trailer – Genoa	336	10.7%	-	-
All Locations	9849	13.68%	1848	2.57%

SOFT PLASTICS ANALYSIS

At present soft plastics represents on average 13.68% of audited General Waste and 2.57% of audited recycling across the entire sample. There may still be some misunderstanding among residents about whether soft plastics are indeed recyclable after the shut down of RedCycle.

There are other councils that have become a drop off point for soft plastics for residents. They have developed a partnership with organisations such as Replas where the council soft plastics are then produced into items the council can use in public spaces like chairs, benches, tables, flooring at playgrounds. The council may like to consider this option.



Disposal Behaviour: Weight

The below outlines the Correct and Incorrect Disposal rates of the audits by Kilograms. These are classified as "correct" and "incorrect" according to the guidelines provided to residents on the council website. See Appendix 3.

Table 28: Summary of Audit One Disposal in Kilograms

Stream	Correctly Disposed by Council Guidelines	Incorrect Disposal by Council Guidelines	Grand Total	% CORRECTLY DISPOSED
Green Waste	5467.60	63.90	5531.50	98.84
Landfill	2170.44	1307.00	3477.44	62.41
Recycling	1573.50	749.30	2322.80	67.74
Grand Total	9211.54	2120.20	11331.74	81.29



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Graph 13: Audit One Potentially Recoverable by KGS and Pathways

Of the 2120.20kgs disposed of incorrectly, 79.5% or 1685.60kg is potentially recoverable.

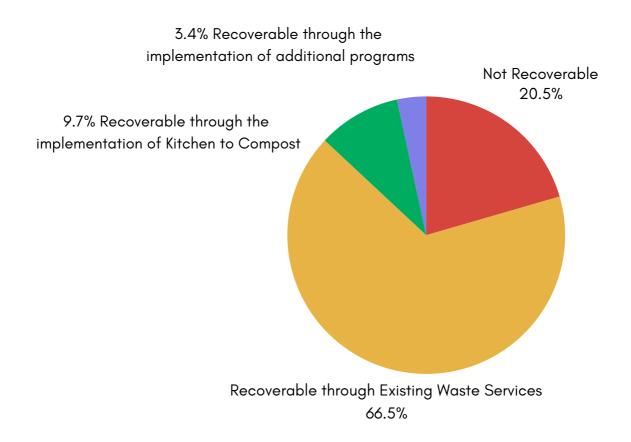




Table 29: Summary of Audit Two Disposal in Kilograms

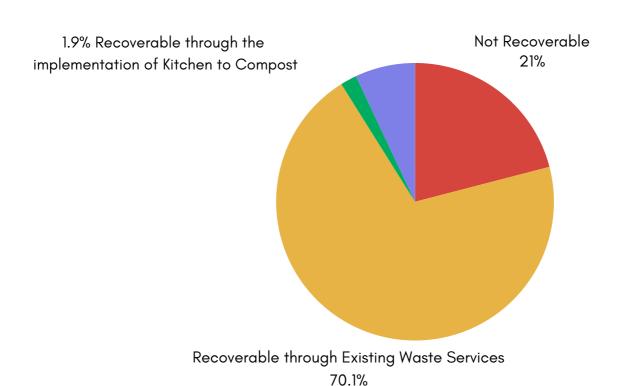
Stream	Correctly Disposed by Council Guidelines	Incorrect Disposal by Council Guidelines	Grand Total	% CORRECTLY DISPOSED
Green Waste	4009.37	52.37	4061.74	98.71
Landfill	3591.43	1116.71	4708.14	76.28
Recycling	2691.80	653.22	3345.02	80.47
Grand Total	10292.60	1822.30	12114.90	84.96



Graph 14: Audit Two Potentially Recoverable by Kilograms and Pathways

Of the 1822.30kgs disposed of incorrectly, 79.11% or 1441.70kg is potentially recoverable.

6.9% Recoverable through the implementation of additional programs



Disposal Behaviour: Volume

The below outlines the Correct and Incorrect Disposal rates of the audits by Litres. These are classified as "correct" and "incorrect" according to the guidelines provided to residents on the council website. See Appendix 3.

Table 30: Summary of Audit One Disposal in Litres*

Calculations of volume are an estimate to within 10% accuracy

Stream	Correctly Disposed by Council Guidelines	Incorrect Disposal by Council Guidelines	Grand Total	% CORRECTLY DISPOSED
Green Waste	23583.00	420.00	24003.00	98.25
Landfill	18903.36	14689.08	33592.44	56.27
Recycling	20719.86	7811.16	28531.02	72.62
Grand Total	63206.22	22920.24	86126.46	73.39

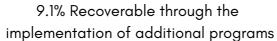
EGSC Waste Audit Final Report





Graph 15: Audit One Potentially Recoverable Litres by Percentage and Pathways

Of the 22,920.24 Litres disposed of incorrectly, 85.8% or 19681.62 Litres is potentially recoverable.



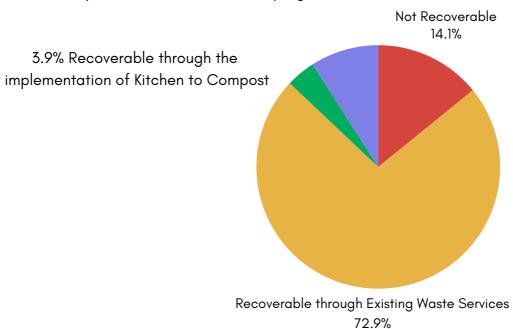




Table 31: Summary of Audit Two Disposal in Litres*

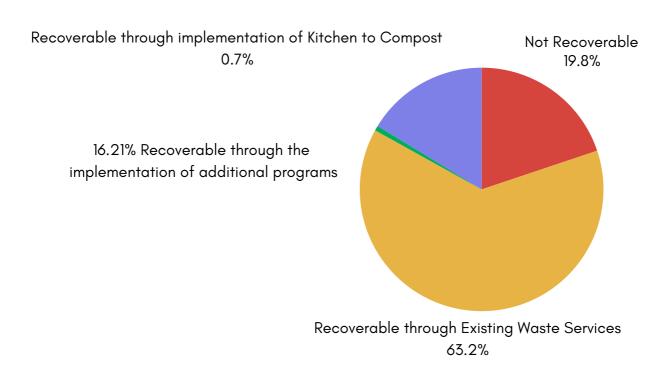
Calculations of volume are an estimate to within 10% accuracy

Stream	Correctly Disposed by Council Guidelines	Incorrect Disposal by Council Guidelines	Grand Total	% CORRECTLY DISPOSED
Green Waste	25128.60	445.20	25573.80	98.26
Landfill	23448.60	14938.98	38387.58	61.08
Recycling	32703.30	10563.00	43266.30	75.59
Grand Total	81280.50	25947.18	107227.68	75.80



Graph 16: Audit Two Potentially Recoverable Litres by Percentage and Pathways

Of the 25947.18 Litres disposed of incorrectly, 80.24% or 20818.98 Litres is potentially recoverable.





DISPOSAL ANALYSIS

In each audit, roughly 80% of waste disposed of incorrectly has the potential to be recovered through existing kerbside waste, council services or easy to access recovery options. This is a key diversion opportunity. With wise and engaging education these materials could be diverted without any infrastructure changes by the council.

Table 32: Potential recovery tonnage by Recovery Stream and Disposal Stream

SUM of Kilos	Stream			
Recovery Stream	Green Waste	Landfill	Recycling	Grand Total
CDS or Kerbside Recycling		237.48		237.48
Donate or Ewaste		30.4	16.6	47
Donate or Upcycle4better		258.03	62.6	320.63
Ewaste		55.18	36.9	92.08
Ewaste or Battery drop offs			1.7	1.7
FOGO		10.5		10.5
Green Waste		65	17.6	82.6
Home compost (potentially)		45	7	52
Kerbside Recycling	28.07	955.34	16.7	1000.11
Kitchen to compost		2690.88	138.6	2829.48
N/A	0	0	0	0
Nappy Recycling Scheme		484.34	22	506.34
Recycling or Upcycling		38.3	47.5	85.8
Simply Cups		19.9	28.3	48.2
TBC		447.69	128	575.69
Terracycle		3.8		3.8
Terracycle or BRAD Program		6.38	1.7	8.08
Transfer Station	8.5	237.1	24.82	270.42
Transfer Station or Hardwaste Collections		454.08	158.1	612.18
Grand Total	36.57	6039.4	708.12	6784.09

Avoidable Waste



From further analysis of the waste audited we can also see great potential for waste that goes beyond being diverted from Landfill, or disposed of correctly into waste streams. With a strong vision, investment and education there is great potential for the complete avoidance of certain items from being purchased or used in the community.

Examples of this include reusable cups and plates for food and beverages, reusable pizza boxes for pizza shops, reusable nappies and supply services, reusable stainless steel coffee pods and washable period underwear.

B-Alternative will be happy to speak further about the potential for avoidance and supporting the Council to develop feasible ideas, engage with the community and implement strong initiatives.

Table 33: Audit One Potentially Avoidable Waste in Kilograms

Audit One

Of the 2120.20kgs incorrectly disposed by residents there is the potential for 37% of that waste to be avoided to begin with, through various reusable or waste free alternatives. Further to this, of the 9211.54kg correctly disposed by residents, a further 23% of this waste could also be avoided.

SUM of Kilos	SUM of Kilos Disposal		
	Correctly Disposed by Council Guidelines	Incorrect Disposal by Council Guidelines	Grand Total
Not Avoidable	7015.81	1329.82	8345.63
Avoidable	2195.73	790.38	2986.11
Grand Total	9211.54	2120.2	11331.74



Table 34: Audit Two Potentially Avoidable Waste in Kilograms

Audit Two

Of the 1822.3kgs incorrectly disposed by residents there is the potential for 33% of that waste to be avoided to begin with, through various reusable or waste free alternatives. Further to this, of the 10292.6kg correctly disposed by residents, a further 17% of this waste could also be avoided.

SUM of Kilos	Disposal		
	Correctly Disposed by Council Guidelines	Incorrect Disposal by Council Guidelines	Grand Total
Not Avoidable	8528.71	1212.09	9740.8
Avoidable	1763.89	610.21	2374.1
Grand Total	10292.6	1822.3	12114.9



Requested Stream Analysis





Table 35: NAPPIES & PADS

	Weight	Percentage	Volume	Percentage
Audit One	266.7kg	2.4%	1558.2L	1.8%
Audit Two	239.64kg	1.9%	1178L	1.09%
Annual forecast per 750 houses	6934.2kg	2%	40,513L	1.5%

Table 36: TETRAPAKS

	Weight	Percentage	Volume	Percentage
Audit One	47.2kg	0.42%	1350.3L	1.57%
Audit Two	38.6kg	0.03%	1096L	1.02%
Annual forecast per 750 houses	1227.2kg	0.35%	35107.8L	1.25%

Table 37: PILL BLISTER PACKETS

	Weight	Percentage	Volume	Percentage
Audit One	4.7kg	0.04%	80L	0.09%
Audit Two	3.37kg	0.02%	57L	0.05%
Annual forecast per 750 houses	122.2kg	0.03%	2080L	0.07%



Recommendations

Food Waste Recommendations

The number one area that needs to be addressed within the East Gippsland Shire Council is food waste. B-Alternative recommends several avenues to divert as much food waste as possible from landfill and recycling streams. These can be implemented with varying degrees of investment, time and ongoing costs. They are outlined below.

RECOMMENDATION ONE: HOME COMPOSTING

It is recommended that the council work to increase the practice of home composting for the residents of East Gippsland. The benefits of home composting will always extend well beyond that of kerbside FOGO collections, which have consistent environmental impacts from transportation and commercial processing. Large scale adoption of home composting would also reduce costs for council associated with transport and commercial processing. Our recommendations are as follows.

1. Supply residents with at home composting starter kits containing the following:

- a.Compost bin. It could a larger outdoor composting bin, or even a tumbler, depending on space and needs.
- b. Kitchen caddy.
- c. Composting guide and instructions.
- d. Compost activator / starter. This is a product that can help speed up the decomposition process by introducing beneficial microorganisms to break down organic materials. It may come in powder or granular form.
- e.Compost aerator / turning tool. This is a tool that helps to aerate compost, ensuring that the materials break down evenly and quickly. It could be a small hand-held tool or a larger garden fork, designed to mix and turn the compost.
- f.Thermometer. A compost thermometer can be included to help monitor the temperature of the compost pile. The ideal temperature range for composting is between 54-71°C, so a thermometer can help to ensure that the pile is decomposing properly.
- g. Composting bin filters. These are filters designed to fit in a compost bin lid. These filters help minimise odours and keep pests away by allowing air to circulate while preventing flies or other insects from accessing the compost.

2. Educate residents about the how and why of home composting.

- a.Live Composting Demonstrations at farmers markets and community events show how food scraps can be turned into nutrient–rich compost for farms and gardens. Why this is good for the garden/land/farm?
- b. Develop or utilise existing video content that simply explains the composting process, how to get started, challenges and benefits and host on council website.
- c. Develop home composting resources and provide on the council website.
- d. Host a series of workshops with key community groups such as men's shed, lions club, sporting clubs to support residents to set their systems up collectively.







RECOMMENDATION TWO: LOCAL COMMUNITY COMPOSTING

Prior to the council wide implementation of the FOGO program and the development of the accompanying commercial composting infrastructure there are opportunities for community based composting to begin now.

The following are our recommendations on how this could be implemented.

- 1. Set up drop off points for food waste where residents can drop their food waste and farmers / users of compost can collect for free. They could be placed in key locations such as:
 - a. Farmers Markets
 - b. Council
 - c. Schools
 - d. Community Gardens Establish community composting hubs, encouraging organic waste diversion while producing compost for local gardens. This could involve local residents in managing the composting process, creating job or volunteer opportunities.
- 2. Provide residents with kitchen caddys. Communication on kitchen caddies should include stickers featuring clear images and words outlining the following:
 - a. Instructions for use: simple steps on use, cleaning, emptying, odour control.
 - b. Map of drop off locations.
 - c. Acceptable items: visuals and words outlining specific common items.
 - d. Non-Acceptable items: visuals and words outlining specific common items.
 - e. Storage Tips: Suggestions for where to store the caddy in the kitchen (e.g., near the sink or food preparation area) to make it convenient.
 - f.Recommended Liners: Information on what types of liners are acceptable (e.g., compostable bags) and how they can help with the collection and disposal process. and suggesting alternatives like newspaper or cardboard for lining the caddy.
- 3. Educate residents about the how and why of composting.
 - a.Live Composting Demonstrations at farmers markets and community events show how food scraps can be turned into nutrient-rich compost for farms and gardens. Why this is good for the garden/land/farm?
 - b. Host a series of workshops with key community groups such as men's shed, lions club, sporting clubs to support residents to set their systems up collectively.
- 4. Create a network/platform for farmers to register their farm as a collector or a drop off point for residents.



RECOMMENDATION THREE: FOGO ROLL OUT

The Victorian Government has mandated that all councils provide the four-stream waste and recycling services to households by the end of 2030, which includes separate bins for glass recycling, food organics and garden organics (FOGO), mixed recycling, and general rubbish.

Mallacoota has been a pioneer in organic waste recycling through its "Kitchen to Compost" (K2C) program, which began as a trial in 2011 and became a permanent initiative due to its success.

Given the above, B-Alternative offer the following recommendations to inform rollout plans for FOGO over the following 5 years, learning from Mallacoota K2C program and the trial and errors of other Australian councils that have implemented the FOGO program.

- 1. Staged trials in different suburbs: it is recommended that trials are conducted in selected suburbs to begin communications with communities that may find the transition more challenging than others. Trials will gain an understanding of the baseline starting point, determine what education is most needed to improve uptake and reduce contamination rates.
- 2. Supply kitchen caddies: for the K2C program kitchen caddies were available for purchase at many local stores, and the council also suggested residents to repurpose containers like empty ice cream tubs to collect organic food scraps (we wholeheartedly support reuse culture!). However, it is recommended for maximum uptake that the council provides kitchen caddies to each household.
- 3. Design of kitchen caddies: it is recommended that caddies are designed in certain dimensions that would allow placement into a dishwasher for ease of washing by residents, reducing ick factor.
- 4. Communication on kitchen caddies: caddies should be labelled with stickers featuring clear images and words outlining the following:
 - a.Instructions for use: simple steps on use, cleaning, emptying odour control and collection frequency.
 - b. Acceptable items: visuals and words outlining specific common items.
 - c. Non-Acceptable items: visuals and words outlining specific common items.
 - d. Storage Tips: Suggestions for where to store the caddy in the kitchen (e.g., near the sink or food preparation area) to make it convenient.
 - e.Recommended Liners: Information on what types of liners are acceptable (e.g., compostable bags) and how they can help with the collection and disposal process. and suggesting alternatives like newspaper or cardboard for lining the caddy.



- 5. **Supply of compostable liners:** it is recommended that the council supply compostable liners to residents ongoing rather than supplying the initial bags and then requiring residents to purchase their own bags. With varying products on the market this increases the risk of microplastics being present in the compost produced.
- 6. **Paper composable liners:** B-Alternative specifically recommends OzEco Compostable Bag liner, an Australian Locally-Made Paper Liner for Organic Waste Made from 100% Recycled Paper specifically designed to fit council-provided FOGO kitchen caddies, to reduce the presence of bio and microplastics in compost.
- 7. **Stickers on FOGO kerbside bins:** kerbside bins should also be labelled with information on what is and is not acceptable for disposal in FOGO bins.
- 8. Regular Auditing to assess uptake and contamination issues.

Communication of FOGO Rollout

The simple presence and supply of kitchen caddies, liners, FOGO bins and fortnightly collections are not enough to create behaviour change in the entire community. Effective communications using multiple mediums, avenues and stakeholders are required for strong uptake of the service by residents and low contamination rates. The following are suggestions for effective and engaging communication of the FOGO rollout covering information on instructions for use, collection frequency, acceptable and non-acceptable items, storage tips, recommended liners, compost and its uses, methane and food waste information and statistics.

- 1. **Community Events:** community events are a vital space for the education of initiatives within the council.
 - a. All events should begin to have organics, recycling and landfill waste streams.
 - b. The council should also consider the implementation of reusable dishware at events as this drastically reduces waste overall and improves the capture of food waste resource.
 - c.Bin Fairies (Waste Educators) trained staff stationed near waste bins to guide market-goers/event attendees on what goes in FOGO.
- 2. **Activations in public areas:** FOGO Education Booth at supermarkets, Bunnings etc an engaging stall with visuals, composting examples, and hands–on demos about proper food waste disposal educating the WHY, why should residents compost not just the HOW.
- 3. Support line / online chat for quick information.
- 4. Direct email marketing to residents.
- 5. Materials delivered to residents:
 - a. magnets for Fridge (not sustainable materials)
 - b. Flyers (last idea)





Community Engagement with Senior population of East Gippsland

Engaging senior citizens in East Gippsland to support waste education on FOGO could be highly effective because older residents often take pride in their community and have time to contribute.

As of the 2021 Census, East Gippsland had a total population of 48,717, with a significant proportion of senior citizens:

 Ages 60 and above: 15,053 individuals, accounting for approximately 30.9% of the population.

By making it social, hands-on, and relevant, seniors in East Gippsland can become powerful advocates for FOGO education and help drive positive waste management habits in their communities!

Make It Accessible & Relevant

- Host FOGO Info Sessions at Community Hubs Organize talks at senior centers, libraries, and RSL/lions clubs with easy-to-understand guides on composting and how FOGO works.
- Provide Hands-On Demonstrations Set up workshops at men's sheds, community gardens, or farmers' markets to show how FOGO reduces waste and benefits the environment/LIVE composts shows etc
- Train "FOGO Ambassadors" Encourage seniors to become local champions who help educate others in their neighborhoods or social groups.
- Local Newspaper & Radio Many seniors prefer traditional media, so use community newspapers, radio stations, and local newsletters to share FOGO tips.

Recognition & Incentives

- FOGO Champion Certificates Recognize active seniors who help spread the word.
- Community Compost/FOGO Rewards Offer discounts on compost bins, soil, or seedlings for seniors who regularly participate.



RECOMMENDATION FOUR: HOMES OF THE FUTURE PROGRAM

Establish a pilot program to work with 500 households in a Homes of the Future Program. The program would be an opt in program to those residents ready to adopt the following measures to trial reducing their consumption habits and the resulting waste generation.

- 1. Landfill bin reduced to 80L and collected every second month.
- 2.Recycling bins adjusted to 240L cardboard, 120L glass and 240L comingled bin collected monthly.
- 3. At home compost bin provided with education and accelerator.
- 4.240L Green Waste bin collected fortnightly.
- 5. Reusable dishware: householders would receive a family reusable kit including Pizzycle reusable pizza box, coffee cup, plate, bowl, take away container, water bottle for each house member (this could be opt in as they may already have these items).

Weekly contamination to be recorded. A member of each household to attend a monitored waste audit at local transfer station and a guided tour of the Bairnsdale MURPH.

Householders to receive a discount on their waste levy.

Recycling Recommendations

Top Contamination Basic Recommendations:

- 1. Landfill AND 2. Textiles:
 - Reduce public bin openings to deter dumping of construction waste.
 - o Decrease curbside bin sizes to limit bulky construction waste.
 - Promote education through community events and schools.
 - Use updated, clear signage on bin lids. le. "when in doubt, throw it out" to avoid recycling contamination.
 - o Textiles recycling locations to be present on bin stickers.
- 3.Un-Recyclable Plastics AND 4.Soft plastic:
 - High levels of hard, soft, and non-recyclable plastics in recycling.
 - o Increase education and presentations to promote waste avoidance.
 - Emphasise purchasing decisions and supplier responsibility.
 - Streamline recycling with dedicated paper/cardboard and glass bins.
 - Utilise CDS plastics elsewhere to reduce recycling complexity.
- 5.Takeaway Packaging:
 - Promote reusable incentives for businesses. They will reduce packaging costs wit reusable behaviours.
 - Support behaviour change in customers via SUP bans and incentives, to meet current national roadmaps.
 - Roll out reusable behaviour change in schools and council run places, this will pioneer public behaviour change.

With Food being the main contamination finding B-Alternative has provided detailed recommendations. Most of which will assist with the 5 items identified above.



CDS Recommendations



CDS volume averaged 34% of across the landfill and recycling streams. The following are our recommendations for increased use of CDS return points.

- 1. Public bin addition: A closed bin signed showing proceeds to a local charity/cause and/or council supported clean up street party.
- 2. Engage school sector and sports clubs about how they can set up bins for their own collections.
- 3. Develop communications that airbnbs and hotels can use to advise tourists that stay about the CDS drop points available in their area.



Seasonal Visitors

East Gippsland is a nature lover's paradise, offering something for adventure seekers, beachgoers, and food enthusiasts alike including families, grey nomads, retirees, eco tourists. Our findings demonstrated visitors largely contributed to an increase in landfill volumes. The following are recommendations for East Gippsland to equip holiday home owners and local accommodation businesses with information regarding waste practices.

For Airbnb Business Owners in Gippsland

- Place visual guides in kitchens and near bins, using simple icons to show what can and can't go in FOGO and Recycling bins. If the property doesn't have FOGO, provide info on nearby community compost bins, local gardens, or farmers' markets accepting FOGO.
- Add a QR code linking to a short video or webpage on "How to Compost in East Gippsland" and "How to recycle in East Gippsland".
- Offer a small discount or a free coffee voucher for guests who use the compost system correctly/drop off (partner with local cafés).

Eco-Friendly Hotel / Airbnb

- Encourage Hotels/Airbnb hosts to display a "Sustainable Stay" on their listing if they provide recycling/composting systems/FOGO. While there isn't a formal badge system on AirBnB, hosts can still showcase their commitment to sustainability through detailed descriptions on the platform.
- Provide an eco-guidebook with FOGO procedures, composting etc
- Create a short guide for Hotel / Airbnb owners on setting up FOGO bins, educating guests and recycling practices.
- Local food rescue locations and contacts, Oz Harvest and Neighborhood House. These can be displayed at Airbnb and camp grounds.

Partner with Holiday Parks & Campgrounds

The East Gippsland Shire Council manages several caravan parks, including the Cann River Rainforest and other campgrounds, Eagle Point Caravan Park, Mallacoota Foreshore Holiday Park, and Swifts Creek Caravan and Tourist Park

- Install communal compost stations at caravan parks, campgrounds with waste education
- Host "green guest" initiatives/activations where tourists can get involved in activations.
- Conduct waste audits specific to holiday parks to understand holiday maker behaviours.



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Nappies & Pads

- 1. Promote Reusable Nappies: East Gippsland Shire Council's rebate program offers 50% off (up to \$40) on reusable cloth nappies, sanitary products, and composting tools, helping to reduce waste and emissions. With over 8600 tonnes of waste going to landfill each year, this initiative saves money and promotes sustainability. Adding workshops to educate residents on reusable nappies and composting could further boost community engagement and the program's impact.
- 2.Implement a Reusable Nappy Collection Service:Partner with <u>Little EcoBaby</u> to introduce a reusable nappy collection and delivery service, providing families with convenient access to cloth nappies. This service can further reduce nappy waste by offering an easy-to-use solution for parents, while supporting sustainable diapering practices.
- 3. Establish a Nappy Recycling Scheme: Collaborate with <u>Diaper Recycle</u> to set up a nappy recycling program, where used nappies are collected and processed separately from general waste. This initiative can drastically reduce the environmental impact of disposable nappies by diverting them from landfills into recycling streams.

*EGSC Community Economic Opportunity:

Both the reusable nappy collection service and nappy recycling program have the potential to create new job opportunities and support a circular economy within East Gippsland Shire. These initiatives can offer local employment and business growth, benefiting the community economically while advancing sustainability goals.







Image: Diaper Recycle recycling plant



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Tetrapak



- 1. Set Up Dedicated Tetrapak Recycling Streams:
 - Establish specific recycling streams for tetrapaks within local recycling facilities to ensure they are processed correctly, as they often require specialised treatment.
- 2. Promote Reusable Alternatives for Tetrapaks:
 - o Encourage a transition from single-use tetrapaks to sustainable, reusable packaging options by partnering with companies like <u>Udder Way</u> and <u>Schulz</u> Organic Dairy, both of which offer reusable milk bottles. By promoting these products in local stores, cafes, and community spaces, the council can reduce the reliance on tetrapaks. Setting up refill stations and offering incentives for using these alternatives will make it easier for residents to adopt eco-friendly practices, contributing to a significant reduction in tetrapak waste.
- 3. Upcycling Tetrapaks Through Community Workshops with Into Carry: Partner with Into <u>Carry</u> to host community workshops that teach residents how to upcycle tetrapak materials into carry wear, such as bags and accessories. This initiative promotes sustainability while providing valuable skills to the local community. By transforming waste into reusable products, the workshops foster a circular economy, empowering participants to create value from waste. Engaging local schools, artisans, and ecoconscious entrepreneurs can enhance community involvement.

*EGSC Community Economic Opportunity:

These upcycling workshops could also create new economic opportunities for East Gippsland Shire, as residents develop and potentially sell upcycled products. This initiative could support local artisans and small businesses while reinforcing sustainable practices in the region.







Image: Tetrapaks during waste audit

Image: Into Carry with a bag made with tetra packs

Pill Blister Packets



1. Introduce Medical Waste Drop-Off Points:

- Partner with local pharmacies and medical centers to set up dedicated collection bins for pill blister packets. These can be recycled through specialised programs like TerraCycle.
- 2. Incentivise Pharmaceutical Recycling Programs:
 - Collaborate with pharmaceutical companies to create a take-back or rewards program, like the <u>BRAD program</u>, that encourages people to return their used pill blister packets for recycling.

*EGSC Community Economic Opportunity:

By introducing the BRAD program, East Gippsland Shire could benefit economically through job creation in waste collection and recycling. Additionally, the sale of products made from recycled materials can foster local business growth, providing a new revenue stream and supporting a circular economy within the community.







Image: BRAD Recycling Program in collaboration with PanelCycle

General Recommendations

Traditional Owners

Engage local Traditional Owners to share their message about taking care of country. Especially in side their own communities and ask what they want from council.

Education and signage

One of our recommendations would be to encourage more transparency and education in signage. For example:

This is why waste rates are high...

This is what methane does to the ozone layer....

This is how much energy and transport it takes to send something to landfill...

This is how much energy it takes to recycle a bottle...

Events

The Council has a suite of events they host within the community and these should always be utilised as an opportunity to demonstrate best practices with low waste reusable culture and best practice resource recovery. All council events should be single use food packaging free and have a minimum of General Waste, Food Waste, Comingled Recycling and CDS points at resource recovery stations.

Events are also a prime place for education. People are generally more open and willing to listen and learn when in an event environment.

Utilising local students

It is recommended that council make connections with students studying land care and sustainability in the local area to support educating at local events. This could be placed on students resumes or even towards placement credits depending on the course.

Digital communications

If a regular council email goes out to residents adding diversion strategies and environmental updates to keep residents motivated.

If the council has an app, be sure to include waste messaging and updates.







Carbon Calculations



Carbon Emissions



We are committed to minimizing our environmental impact by integrating carbon offsetting into our operations, ensuring that any emissions generated through our audits are balanced by investments in environmental restoration and carbon offset projects.

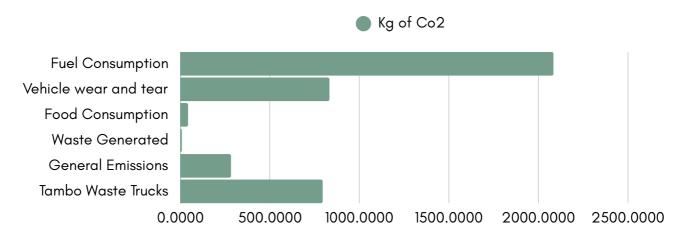
Some of the key initiatives B-Alternative has implemented to reduce emissions include:

- Sourcing local staff where possible, reducing distance travelled by the auditing team.
- Choosing un-packaged plant-based meals instead of meat-based packaged food, significantly reducing emissions. Studies show that the carbon footprint of plant-derived foods can be 10 to 50 times lower than that of animal products. (Ref. Carbonbrief.org).
- Where reusables were not possible to use, compostable packaging was used rather than single-use plastics, which not only reduces emissions during the manufacturing process but also minimizes environmental impact at the end of its lifecycle. All compostable packaging was home composted.
- Our headquarters in East Gippsland is powered by solar energy, significantly reducing CO₂ emissions utilising renewable sources.

To calculate our emissions, we accounted for factors such as employee commutes, electricity usage, meals, internet, printing, uniform washing, etc. Additionally, we included an extra 30% for each category to cover any potential sources of emissions that may have been overlooked.

Tambo Waste have also calculated their additional kilometres driven by their team to complete the audit, which was an additional 1020km per audit.

We have calculated our total emissions to be 4050.6206 kg of CO2, including the emissions incurred by the Tambo Waste collection trucks.



Graph 17: Carbon Emissions by category by KG





Carbon Offset

Our total emissions for both audits was 4050.6206 kg of CO2, which is equivalent to planting approximately 83 trees.

At B-Alternative, we are committed to making a positive environmental impact and to ensure our projects result in a net positive carbon footprint. It is estimated that only 60% of trees planted through tree planting efforts succeed (Ref. East Gippsland Landcare and Rainforest Rescue). To ensure that our carbon offsetting project meets its goals, we will account for this rate by increasing the total number of trees planted by 40%, compensating for potential losses.

B-Alternative has partnered with East Gippsland Landcare Group to support the revegetation of the Carpentry Street project in Lakes Entrance. A total of 120 trees with stakes and tree guards will be planted throughout the area.



Image: B-Alternative team a Rainforest Rescue Tree Planting Day 2023



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Economic Benefits





Economic Benefits

The waste audit was conducted in the region of East Gippsland. B-Alternative made efforts to recruit local staff where and source food and equipment locally to inject money back into the local economy. A summary of local expenditure is below:

LOCAL STAFF \$48,867.50
5 x Waste Audit Staff
1 x Environmental Scientist and Site Manager
1 x Project Manager

FOOD \$3,308.41

Food purchased from 4 Local businesses, with over 55% of purchases from local businesses containing local produce from local farmers.

ACCOMMODATION \$1,965.50

TOTAL: \$54,141.41



About B-Alternative

B-Alternative is an Australian environmental social enterprise revolutionizing sustainability through four key services that drive environmental impact, cost savings, and regenerative practices.

We partner with businesses, councils, and communities to reduce waste, drive circular economy solutions and embrace regeneration seamlessly.

Our innovative initiatives—such as the Reuse Revolution and our targeted environmental consulting services—replace single-use systems with practical, scalable alternatives.

From comprehensive waste audits to zero-waste event management, we help organisations achieve their sustainability goals while minimizing environmental impact. By prioritizing regeneration over sustainability, we deliver long-term, measurable change that benefits both people and the planet.

Our Services:



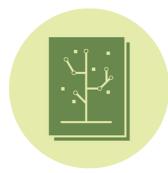
Reuse Revolution:

Circular Solutions for a Regenerative World



Festivals & Events

Celebrating with Purpose, Leaving a Positive Impact



Environmental Consulting

Smart Strategies for a Regenerative Future



Regeneration Works

Regeneration Through Creative Collaborations

Acknowledgements



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Primary & Secondary Classifications

Primary classification	Secondary Classification
Paper	Paper/Newspaper
	Cardboard
	Liquid Paperboard (LPB milk/juice)
	Other/Mixed
Glass	Packaging bottles/containers/jars
0.000	Other (pyrex, windscreen)
	Other (pyrex, windscreen)
Plastic	1 PET, 2 HDPE, & 5 polypropylene
riastic	3 PVC, 4 LDPE & 6 Polystyrene
	7 Other
Matal	Aluminium anno fail
Metal	Aluminium cans/foil
	Steel cans/aerosol cans
	Other
Organics	Green waste
	Food organics
	Other putrescible
Building Materials	Wood/timber
Clothing/textiles/fabric	Textile/rags
General Waste	Polystyrene
	broken glass
	ceramics
	Plastics 3,4 & 6
	Clothing/Textiles
	Other
	Other
Soft Plastics	
Potentially Hazardous	E-waste
	paint
	household chemicals
	pharmaceuticals
	Other
	Fluorescent globes
	Dry cell batteries
	Nappies/Hygiene products
	Car batteries
Other	Non-household materials
	Ceramics
	Dusk/dirt/rock/inert
	Ash
	Special (?)
	Non-recyclable plastic film
	Non recyclable hard plastic
	Soil
	Other
Contamination	Items in plastic bags in recycling bin
	Other gardening items (hoses, outdoor furniture plant pots)
	Recyclable items not in recycling bin
	Heavily soiled recyclable items in recycling bin



Audit One Collection & Audit Schedule

	Monday 16th September	Tuesday 17th	Wednesday 18th	Wednesday 18th	Thursday 19th	Friday 20th
Collection Locations	Bairnsdale - EAST of Day St Preference: Francis Street	Lakes Entrance - WEST of Golf Preference: 25 residential bins from Box Street, Barkers Avenue, Grey Street, Staunton St	Lakes Entrance Public Bins	Mallacoota	Paynesville	East Bairnsdale
Stream 1	25 Landfill	25 Landfill	75 Landfill Public	25 Landfill	25 Landfill	25 Landfill
Stream 2	50 Recycling	50 Green	40 Recycling Public	50 FOGO	50 Recycling	50 Green
Transfer Station	Bairnsdale	Lakes Entrance	Lakes Entrance	Mallacoota	Bairnsdale	Bairnsdale
	Monday 23rd September	Tuesday 24th	Wednesd	lay 25th	Thursday 26th	Friday 27th
Collection Locations	Lakes Entrance - EAST of Golf Preference: McRae Street	Bairnsdale - WEST of Day Preference: Victoria Street	Mallac	oota	Paynesville	East Bairnsdale
Stream 1	25 Landfill	25 Landfill	25 Lar	ndfill	25 Landfill	25 Landfill
Stream 2	50 Recycling	50 Green	50 Recy	ycling	50 Green	50 Recycling
Transfer Station	Lakes Entrance	Bairnsdale	Mallac	oota	Bairnsdale	Bairnsdale
Date	Monday 30th September	Tuesday 1st	Wedneso	day 2nd	Thursday 3rd	Friday 4th
Comment		School holidays - will	not collect as data wi	ll be skewed		
Date	Monday 7th October	Tuesday 8th	Wednese	day 9th	Thursday 10th	Friday 11th
Comment		Will not collect as data will b	e skewed post School	ol Holiday fortnight		
Date	Monday 14th October	Tuesday 15th	Wedneso	lay 16th	Thursday 17th	Friday 18th
Collection Locations	Paynesville Public Bins		Trail	er		
Stream 1	50 Landfill					
Stream 2	20 Recycling					
Transfer Station	Bairnsdale		Cann F	River		

Audit Two Collection & Audit Schedule

	Monday 6th January	Tuesday 7th January	Wed 8th January	Thursday 9th January	Friday 10th January
Collection Locations	Bairnsdale - EAST of Day St Preference: Francis Street	Lakes Entrance - WEST of Golf Preference: 25 residential bins from Box Street, Barkers Avenue, Grey Street, Staunton St	Mallacoota	Paynesville	East Bairnsdale
Stream 1	25 Landfill	25 Landfill	25 Landfill	25 Landfill	25 Landfill
Stream 2	50 Recycling	50 Green	50 FOGO	50 Recycling	50 Green
Transfer Station	Bairnsdale	Bairnsdale	Mallacoota	Bairnsdale	Bairnsdale
Collection Locations			Paynesville Public Bins		
Stream 1			50 Landfill		
Stream 2			20 Recycling		
Transfer Station			Bairnsdale		
	Monday 13th Janaury	Tuesday 14th January	Wed 15th January	Thursday 16th January	Friday 17th Janaury
Collection Locations	Lakes Entrance - EAST of Golf Preference: McRae Street	Bairnsdale - WEST of Day Preference: Victoria Street	Mallacoota	Paynesville	East Bairnsdale
Stream 1	25 Landfill	25 Landfill	25 Landfill	25 Landfill	25 Landfill
Stream 2	50 Recycling	50 Green	50 Recycling	50 Green	50 Recycling
Transfer Station	Bairnsdale??	Bairnsdale	Mallacoota	Bairnsdale	Bairnsdale
Collection Locations			Lakes Public Bins		
Stream 1			75 Landfill		
Stream 2			30 Recycling		10 Recycling
Transfer Station			Bairnsdale		



Materials and disposal advice by East Gippsland Shire Council - March 2025

Item/ Material	General Waste	Recycling	Green	Best option for disposal:
Acids	x	x	x	Detox Your Home
Adhesive Tape	x	^	^	General Waste Bin
Advertising Material	x	u		General Waste Bin
Aerosol cans	X	X		Recycling Bin
		X		
Aluminium Foil and trays		×		Recycling Bin E- Waste
Appliances				- 11010
Asbestos				Bairnsdale Landfill only
Baby Wipes	x			General Waste Bin
Bailing Twine	x			Landfill/Transfer Station
Balloons	x			General Waste Bin
Barbeques				Landfill/Transfer Station
Batteries - Car				Landfill/Transfer Station
Batteries - Electric Vehicle				Recycled through your vehicle service provider.
Batteries - Embedded				E-Waste
Batteries - Lithium				E-Waste
Batteries - Household				E-Waste
Bicycles				Landfill/Transfer Station
Biscuit packets	x			General Waste Bin
Biscuit tray		x		Recycling Bin
Blankets and bedding				Donate to charity if in good condition. Otherwise Textile recycling at Bairnsdale Landfill.
Books		x		Recycling Bin
Bottle Caps - Metal		x		Recycling Bin
Bottles - Glass		x		Recycling Bin - may be elegible for 10c refund via CDS.
Bottles - Plastic		x		Recycling Bin - may be elegible for 10c refund via CDS.
Bras	x			Donate.
Bread tags - Plastic	×			
Bread tags - Paper		x		
Bubble Wrap	x			General Waste Bin
Building and Construction Waste				Landfill/Transfer Station
Butter Wrapper (paper or foil)	x			General Waste Bin
CD's	x			E-Waste
CD's Cameras	x			E-Waste
	X	x		
Cameras	x	x		E-Waste
Cameras Cans - aluminium drink cans	x	x		E-Waste Recycling Bin - may be elegible for 10c refund via CDS.
Cans - aluminium drink cans Car Body	x	x		E-Waste Recycling Bin - may be elegible for 10c refund via CDS. Landfill/Transfer Station
Cameras Cans - aluminium drink cans Car Body Car Parts Cardboard	x	×		E-Waste Recycling Bin - may be elegible for 10c refund via CDS. Landfill/Transfer Station
Cameras Cans - aluminium drink cans Car Body Car Parts Cardboard Carpet	x			E-Waste Recycling Bin - may be elegible for 10c refund via CDS. Landfill/Transfer Station Landfill/Transfer Station Landfill/Transfer Station
Cameras Cans - aluminium drink cans Car Body Car Parts Cardboard Carpet Cartons from Milk and Juice		x		E-Waste Recycling Bin - may be elegible for 10c refund via CDS. Landfill/Transfer Station Landfill/Transfer Station Landfill/Transfer Station Recycling
Cameras Cans - aluminium drink cans Car Body Car Parts Cardboard Carpet Cartons from Milk and Juice Cellophane	x			E-Waste Recycling Bin - may be elegible for 10c refund via CDS. Landfill/Transfer Station Landfill/Transfer Station Landfill/Transfer Station Recycling General Waste Bin
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Cameras Cans - aluminium drink cans Car Body Car Parts Cardboard Carpet Cartons from Milk and Juice Cellophane Ceramics Chargers	x x			E-Waste Recycling Bin - may be elegible for 10c refund via CDS. Landfill/Transfer Station Landfill/Transfer Station Landfill/Transfer Station Recycling General Waste Bin General Waste Bin E-Waste
Cameras Cans - aluminium drink cans Car Body Car Parts Cardboard Carpet Cartons from Milk and Juice Cellophane Ceramics Chargers Chip Packets	x x			E-Waste Recycling Bin - may be elegible for 10c refund via CDS. Landfill/Transfer Station Landfill/Transfer Station Landfill/Transfer Station Recycling General Waste Bin General Waste Bin E-Waste General Waste Bin
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Cameras Cans - aluminium drink cans Car Body Car Parts Cardboard Carpet Cartons from Milk and Juice Cellophane Ceramics Chargers Chip Packets Cigarette butts Clean fill Cling wrap	x x x			E-Waste Recycling Bin - may be elegible for 10c refund via CDS. Landfill/Transfer Station Landfill/Transfer Station Landfill/Transfer Station Recycling General Waste Bin General Waste Bin E-Waste General Waste Bin Landfill/Transfer Station General Waste Bin
Cameras Cans - aluminium drink cans Car Body Car Parts Cardboard Carpet Cartons from Milk and Juice Cellophane Ceramics Chargers Chip Packets Cigarette butts Clean fill Cling wrap Clothes	x x x x			E-Waste Recycling Bin - may be elegible for 10c refund via CDS. Landfill/Transfer Station Landfill/Transfer Station Landfill/Transfer Station Recycling General Waste Bin General Waste Bin E-Waste General Waste Bin Landfill/Transfer Station General Waste Bin Donate
Cameras Cans - aluminium drink cans Car Body Car Parts Cardboard Carpet Cartons from Milk and Juice Cellophane Ceramics Chargers Chip Packets Cigarette butts Clean fill Cling wrap Clothes Coffee Cups - disposable	x x x x x x x x x x x x x x x x x x x			E-Waste Recycling Bin - may be elegible for 10c refund via CDS. Landfill/Transfer Station Landfill/Transfer Station Landfill/Transfer Station Recycling General Waste Bin General Waste Bin E-Waste General Waste Bin Landfill/Transfer Station General Waste Bin Donate General Waste Bin
Cameras Cans - aluminium drink cans Car Body Car Parts Cardboard Carpet Cartons from Milk and Juice Cellophane Ceramics Chargers Chip Packets Cigarette butts Clean fill Cling wrap Clothes Coffee Cups - disposable Coffee pods	x x x x			E-Waste Recycling Bin - may be elegible for 10c refund via CDS. Landfill/Transfer Station Landfill/Transfer Station Landfill/Transfer Station Recycling General Waste Bin General Waste Bin E-Waste General Waste Bin Landfill/Transfer Station General Waste Bin Donate General Waste Bin General Waste Bin
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Insect Sprays and cans					
Julico Bolles	Household Chemicals				Detox Your Home
Detay your Home	Insect Sprays and cans				
Light globes	Juice Bottles		X		Recycling - check if elegible for 10c refund through CDS.
Colly Wrappers	Kerosene				Detox your Home
Magazines x Recycling Bin Mattress Landfill/Transfer Station Medicine Wrapper - Bilster Pack x Donate Medicines x Donate Metal Landfill/Transfer Station Mobile Phone E-Waste Motor Oil Landfill/Transfer Station Nail Polish Detox Your Home Nappy - Cloth x Donate Nappy - Cloth x General Waste Bin Newspaper x General Waste Bin Newspaper x Recycling Office Furnbure Donate to charity if in good condition. Otherwise Transfer Station/Landfill Paint Landfill/Transfer Station Paper and Cardboard x Recycling Bin Petrol Dotox Your Home Plast Dots x Recycling Bin Paper and Cardboard x Recycling Bin Patrol Dotox Your Home Plastic Blass x General Waste Bin Plastic Blass x General Waste Bin Polystyrene	Light globes				Landfill/Transfer Station
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Medicines x Donate Metal	Mattress				Landfill/Transfer Station
Mebile	Medicine Wrapper - Blister Pack	x			General Waste Bin
Mebile	Medicines	×			Donate
Mobile Phone E-Waste Landfill/Transfer Station					
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Steel Cans x Recycling Bin Straw - Plastic x General Waste Bin Swimwear x Donate Televisions E-Waste Textiles x Donate				_	
Straw - Plastic x General Waste Bin Swimwear x Donate Televisions E-Waste Textiles x Donate		x			
Swimwear x Donate Televisions E-Waste Textiles x Donate	Steel Cans		x		
Televisions E-Waste Textiles x Donate	Straw - Plastic	x			
Textiles x Donate	Swimwear	x			
	Televisions				E-Waste
Timber Landfill/Transfer Station	Textiles	x			Donate
	Timber				Landfill/Transfer Station



Tissues	x			General Waste Bin
Toner Cartridges	x			Donate to Cartridges for Planet Ark. Otherwise General Waste
Tools - Unpowered				Landfill/Transfer Station
Toothbrush	x			General Waste Bin
Toothbrush - Electric				E-Waste
Toothpaste Tube	x			General Waste Bin
Towels	x			Donate
Toys - Electronic				E-Waste
Toys- Unpowered	x			Donate
Tyres				Landfill/Transfer Station
Vacuum Cleaner Dust	x			General Waste Bin
Vegetable Scraps	x			General Waste Bin
Video Tapes	x			Donate
Vinyl	x			General Waste Bin
Vitamin Bottles		х		Recycling Bin
Watches				E-Waste
Waxed Cardboard	x			General Waste Bin
Weeds			x	Green Waste Bin
White Goods				Landfill/Transfer Station
X-Rays	x			Donate
Yoghurt Container		x		Recycling Bin
Zip-Lock Bags	x			General Waste Bin



Table 38: Bairnsdale Secondary Classification for Audit One and Two - KGs

SUM of Kilos	Stream	Audit Tue	Green Waste Total	Audit One	Audit Two	Landfill Total	Audit One	Audit Two	Decycling Total	Crond Total
	Audit One	Audit Two	Green waste rotal							
Batteries				1.4	0.2	1.6	0	0.2	0.2	1.8
Brown Cardboard				2.9	14.4	17.3	33.7	93.7	127.4	144.7
Butts				0.1	0	0.1	0	0	0	0.1
CDS Cans				1.4	0.9	2.3	3.3	2.6	5.9	8.2
CDS Glass				2.6	4	6.6	31.7	11.3	43	49.6
CDS Plastics				8.0	1.5	2.3	7.4	9.9	17.3	19.6
Christmas misc								5.4	5.4	5.4
Christmas paper					0.9	0.9		2	2	2.9
Clothes				7.3	15.4	22.7	0	0.4	0.4	23.1
Coal				3.5	0	3.5	0	0	0	3.5
Coated Cardboard				4	0	4	36.6	0	36.6	40.6
Coffee Cups / Bevs				0.3	0	0.3	0.4	0	0.4	0.7
Coffee Pods				1.8	0	1.8	0	0	0	1.8
Compost Packaging				0.3	0	0.3	0	0	0	0.3
Concrete				0	0	0	0	0	0	0
Contaminated Cardboard				0	0	0	1.9	0	1.9	1.9
Cooking items				0	0.9	0.9	4.2	2.2	6.4	7.3
Dust				0	1	1	0	0	0	1
Ewaste				1.5	3.9	5.4		0.7	0.7	6.1
Foil				2.1	2.6	4.7	0.1	0.2	0.3	5
Food waste	16	6.5	22.5		183.1	309.5	2.2	4.3	6.5	338.5
Glass		0.0	22.0	9.3	13	22.3	69.9	67.5	137.4	159.7
Green Waste	1110.3	720.2	1830.5		1.3	5.5	0	14.8	14.8	1850.8
Hard polystyrene	1110.5	720.2	1050.5	0	1.1	1.1	0.7	0.42	1.12	2.22
Hard rubbish					12.3	12.3	0.1	0.42	1.12	12.3
Hard Waste				17.8	24.8	42.6	17.5	4.5	22	64.6
Household items				17.0	5.8	5.8	17.5	4.5	22	5.8
Landfill				79.7	130.7	210.4	36.2	23.4	59.6	270
Misc	11.4	2.9	14.3		130.7	12.5	0	23.4	0	26.8
Mussels	0	0				12.5	U		U	0
Nappies/Pads				33.1	34.9	68	0	0	0	68
Paper				9.8	9.5	19.3	88.5	34.9	123.4	142.7
Pill Packs				0.7	0.5	1.2	0.1	0.1	0.2	1.4
Pizza boxes				0.1	0.3	0.3	0.1	1.4	1.4	1.7
Plastics 1				5.8	5.7	11.5	9.8	8.5	18.3	29.8
Plastics 2				2.3	5.4	7.7	15.6	9.5	25.1	32.8
Plastics 3				0	0	0	0.3	0.0	0.3	0.3
Plastics 4				0	0	0	0.5	0	0.5	0.5
Plastics 5				4.1	4.8	8.9	9.4	4.3	13.7	22.6
Plastics 7										0.1
Plastics Misc				3.9	0	12.7	0.1	4.7	0.1	
					8.8	12.7	3.6	4.7	8.3	21
Poop Soft Plastics				45.9	65.6	111.5	0	0	6.7	111.5
Soft Plastics				21.5	33.3	54.8	1.3	4.4	5.7	60.5
Soft Polystyrene				0.5	0.4	0.9	0.2	10.0	0.2	1.1
Steel cans				4.9	7.5	12.4	13.6	10.9	24.5	36.9
Take Away Packaging				3.7	11.5	15.2	0	5.7	5.7	20.9
Tetrapak				7.5	2	9.5	4.2	2.6	6.8	16.3
Tissues				15.3	21.3	36.6	0	0	0	36.6
Whole packaged food			-	12.9	15.9	28.8	0	2.2	2.2	31
Wood	0				3.5	19.3	0	0	0	19.3
Grand Total	1137.7	729.6	1867.3	467.6	648.7	1116.3	392.5	332.72	725.22	3708.82



Table 39: Bairnsdale Secondary Classification for Audit One and Two - Litres

idit One	Audit IWo	Green Waste Total	1.26 84 0.42 35.7 42 28.98 42 25.2	0.42 252 0 50.4 6.3 37.8 37.8	1.68 336 0.42 86.1 48.3 66.78	0 714 0 126 126 252	0.42 1386 0 79.8 42 294 121.8	0.42 2100 0 205.8 168 546	216.3
			84 0.42 35.7 42 28.98 42 25.2	252 0 50.4 6.3 37.8	336 0.42 86.1 48.3 66.78	714 0 126 126	1386 0 79.8 42 294	2100 0 205.8 168 546	2436 0.42 291.9 216.3
			0.42 35.7 42 28.98 42 25.2	0 50.4 6.3 37.8	0.42 86.1 48.3 66.78	0 126 126	0 79.8 42 294	0 205.8 168 546	0.42 291.9 216.3
			35.7 42 28.98 42 25.2	50.4 6.3 37.8 37.8	86.1 48.3 66.78	126 126	79.8 42 294	205.8 168 546	291.9 216.3
			42 28.98 42 25.2	6.3 37.8 37.8	48.3 66.78	126	42 294	168 546	216.3
			28.98 42 25.2	37.8 37.8	66.78		294	546	
			42 25.2	37.8		252			612.78
			25.2		37.8		121.8	424.0	
			25.2		37.8			121.8	121.8
			25.2	126	00		84	84	121.8
					168	0	12.6	12.6	180.6
				0	25.2	0	0	0	25.2
			126	0	126	798	0	798	924
			4.2	0	4.2	4.2	0	4.2	8.4
			4.2	0	4.2	0	0	0	4.2
			4.2	0	4.2	0	0	0	4.2
			0	0	0	0	0	0	0
					0				63
					-				52.5
									6.3
						v			25.2
						0.40			
	24	405							57.12
84	21	105							982.8
									565.32
4242	4746	8988							9130.8
			0			21	84	105	186.9
									84
			126	163.8	289.8	210	42	252	541.8
				16.8	16.8				16.8
			504	579.6	1083.6	378	155.4	533.4	1617
42	12.6	54.6	84		84	0		0	138.6
0	0	0							0
			168	189	357	0	0	0	357
			210	84	294	630	352.8	982.8	1276.8
			14.7	6.3	21	4.2	0.42	4.62	25.62
					4.2		42	42	46.2
			252			336			1113
									1087.8
									2.1
									0
							-	-	911.4
									2.1
							-		
									630
									256.2
									1810.2
									10.5
									457.8
									571.2
			63	46.2	109.2	176.4		256.2	365.4
			210	243.6	453.6	0	0	0	453.6
			84	37.8	121.8	0	2.1	2.1	123.9
0	0	0	46.2	42	88.2	0	0	0	88.2
	0	4242 4746 42 12.6 0 0	4242 4746 8988 42 12.6 54.6 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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 63 63 63 0 0 61 62 63 63 0 63 63 0 63 63	0	0



Table 40: Lakes Entrance Secondary Classification for Audit One and Two - KGs

SUM of Kilos	Stream	Audit								
Secondary Classification	Audit One	Audit Two	Green Waste Total	Audit One	Audit Two	Landfill Total	Audit One	Audit Two	Recycling Total	Grand Tota
Batteries				0	0.1	0.1	0	0	0	0.1
Brown Cardboard				5.6	23.3	28.9	71.8	104.6	176.4	205.3
Butts				0	0	0	0	0	0	0
CDS Cans				0.1	3	3.1	8.4	4.2	12.6	15.7
CDS Glass				0	14.3	14.3	49.9	46.3	96.2	110.5
CDS Plastics				0.7	3.3	4	10.4	14.2	24.6	28.6
Christmas paper					1.3	1.3				1.3
Clothes				20.4	21.8	42.2	5.1	6	11.1	53.3
Coal				0	0	0	1.2	0	1.2	1.2
Coated Cardboard				4	0	4	0	0	0	4
Coffee Cups / Bevs				1.1	0	1.1	0	0	0	1.1
Coffee Pods				0.5	0	0.5	0	0	0	0.5
Compost Packaging				0	0	0		0	0	0
Concrete				6.8	3.8	10.6	0	0	0	10.6
Construction				27.5	0	27.5		·		27.5
Contaminated Cardboard				0	0	0		0	0	0
Cooking items				0	1.1	1.1	5.4	0	5.4	6.5
Dust				1.2	2.5	3.7	0	0	0	3.7
Ewaste				1.2	10.1	10.1	2.4	2.9	5.3	15.4
Foil				0.7	3.1	3.8		0.1	0.1	3.9
Food waste	16.6	3.4	20	130.1	228	358.1	1.6	0.1	1.6	379.7
Glass	10.0	3.4	20	7.9	21.8	29.7	72.3	116.6	188.9	218.6
Green Waste	1119.7	871.7	1991.4	3.8	0	3.8		0	0	1995.2
	1113.7	0/1./	1551.4	0.5	0.4	0.9		0	0	0.9
Hard polystyrene										
Hard Waste	0.0	5.5	111	10.7 66.5	35	45.7	43.6	23.3 51.6	66.9	112.6
Landfill	8.6	5.5	14.1		175.1	241.6		51.0	91.1	346.8
Misc	2.2		2.2	9.8		9.8				9.8
Mussels	2.3	0	2.3	20.4	50.0	00.0			4.0	2.3
Nappies/Pads				36.1	53.2	89.3	50.7	0.3	1.3	90.6
Paper				13.29	14.6	27.89	58.7	36	94.7	122.59
Pill Packs				0.6	0.7	1.3	1	0.1	1.1	2.4
Pizza boxes					1.9	1.9	40.0	3.6	3.6	5.5
Plastics 1				3.8	6.6	10.4	10.2	8	18.2	28.6
Plastics 2				2.9	3.6	6.5	9.2	11.6	20.8	27.3
Plastics 3				0.7	0	0.7	0	0	0	0.7
Plastics 4				0.2	0	0.2	0.2	0	0.2	0.4
Plastics 5				4.1	9.4	13.5	4	4.6	8.6	22.1
Plastics 7				0	0	0	0	0	0	0
Plastics Misc				6.2	4.8	11	3.5	4	7.5	18.5
Poop				6.3	37	43.3	0	0	0	43.3
Soft Plastics				19.68	42	61.68	3.5	4.6	8.1	69.78
Soft Polystyrene				0	0	0	0	0	0	0
Steel cans				3.2	4.7	7.9	14.3	6	20.3	28.2
Take Away Packaging				3.9	12.4	16.3	3.3	2.8	6.1	22.4
Tetrapak				0.7	2.7	3.4	6.1	3.2	9.3	12.7
Tissues				14.5	34.8	49.3	0	0	0	49.3
Whole packaged food				26.1	11.7	37.8	0	1.1	1.1	38.9
Wood	6	0	6	4.3	1.2	5.5	0	0	0	11.5
Grand Total	1153.2	880.6	2033.8	444.47	789.3	1233.77	426.6	455.7	882.3	4149.87



Table 41: Lakes Entrance Secondary Classification for Audit One and Two - Litres

SUM of Litres	Stream	Audit								
Secondary Classification	Audit One	Audit Two	Green Waste Total	Audit One	Audit Two	Landfill Total	Audit One	Audit Two	Recycling Total	Grand Total
Batteries				0	0.42	0.42	0	0	0	0.42
Brown Cardboard				86.1	445.2	531.3	1092	1222.2	2314.2	2845.5
Butts				0	0	0	0	0	0	0
CDS Cans				2.52	105	107.52	294	134.4	428.4	535.92
CDS Glass				0	54.6	54.6	210	180.6	390.6	445.2
CDS Plastics				25.2	105	130.2	378	424.2	802.2	932.4
Christmas paper					25.2	25.2				25.2
Clothes				105	88.2	193.2	42	42	84	277.2
Coal				0	0	0	21	0	21	21
Coated Cardboard				84	0	84	0	0	0	84
Coffee Cups / Bevs				21	0	21	0	0	0	21
Coffee Pods				2.1	0	2.1	0	0	0	2.1
Compost Packaging				0	0	0	0	0	0	0
Concrete				21	37.8	58.8	0	0	0	58.8
Construction				84	0	84				84
Contaminated Cardboard				0	0	0	0	0	0	0
Cooking items				0	4.2	4.2	42	0	42	46.2
Dust				12.6	6.3	18.9	0	0	0	18.9
Ewaste					42	42	21	25.2	46.2	88.2
Foil				4.2	54.6	58.8	0	8.4	8.4	67.2
Food waste	42	8.4	50.4	504	504	1008	21	0.4	21	1079.4
Glass	42	0.4	30.4	84	54.6	138.6	252	336	588	726.6
Green Waste	5040	5880	10920	42	0	42	0	0	0	10962
Hard polystyrene	3040	3000	10920	21	46.2	67.2	0	0	0	67.2
Hard Waste				84	289.8	373.8	294	231	525	898.8
Landfill	84	16.8	100.8	378	735	1113	294	331.8	625.8	1839.6
	04	10.6	100.8		/30		294	331.0	020.8	
Misc	24		24	126		126				126
Mussels	21	0	21	252	242.0	405.0	40.5	2.4	40.0	21
Nappies/Pads				252	243.6	495.6	10.5	2.1	12.6	508.2
Paper				210	277.2	487.2	378	457.8	835.8	1323
Pill Packs				8.4	6.3	14.7	10.5	2.1	12.6	27.3
Pizza boxes					84	84		84	84	168
Plastics 1				126	218.4	344.4	378	277.2	655.2	999.6
Plastics 2				63	88.2	151.2	336	441	777	928.2
Plastics 3				4.2	0	4.2	0	0	0	4.2
Plastics 4				4.2	0	4.2	4.2	0	4.2	8.4
Plastics 5				172.2	268.8	441	168	168	336	777
Plastics 7				0	0	0	0	0	0	0
Plastics Misc				231	239.4	470.4	168	126	294	764.4
Poop				21	75.6	96.6	0	0	0	96.6
Soft Plastics				672	1104.6	1776.6	126	159.6	285.6	2062.2
Soft Polystyrene				0	0	0	0	0	0	0
Steel cans				84	42	126	252	84	336	462
Take Away Packaging				126	252	378	84		126	
Tetrapak				10.5	58.8	69.3			294	
Tissues				210	386.4	596.4			0	
Whole packaged food				84	46.2	130.2			12.6	
Wood	42	0	42	42	4.2	46.2			0	
11000	72		42	72	7.2	70.2	- 0	-		00.2



Table 42: Paynesville Secondary Classification for Audit One and Two - KGs

SUM of Kilos	Stream	Audit								
Secondary Classification	Audit One	Audit Two	Green Waste Total	Audit One	Audit Two	Landfill Total	Audit One	Audit Two	Recycling Total	Grand Total
Batteries				6.2	0	6.2	0	0	0	6.2
Brown Cardboard				2.8	15.6	18.4	20.7	158.5	179.2	197.6
Butts				0	1	1	0	0	0	1
CDS Cans				1.9	3	4.9	11.2	20.4	31.6	36.5
CDS Glass				1.9	6.2	8.1	28.2	75.9	104.1	112.2
CDS Plastics				1	5.1	6.1	7	12.3	19.3	25.4
Christmas paper					1.1	1.1		6.4	6.4	7.5
Clothes				12.6	27.4	40	0	9.9	9.9	49.9
Coal				0	0	0	0	0	0	0
Coated Cardboard				9.6	0	9.6	32.8	0	32.8	42.4
Coffee Cups / Bevs				0	0	0	0	0	0	0
Coffee Pods				0.3	0	0.3	0	0	0	0.3
Compost Packaging				0	0	0	0	0	0	0
Concrete				0	0	0	0	0	0	0
Construction				5.9	0	5.9				5.9
Contaminated Cardboard				0	0	0	14.8	0	14.8	14.8
Cooking items				0	0	0	0	4.8	4.8	4.8
Dust				1.3	0.3	1.6	0	0	0	1.6
Ewaste				5.5	8	13.5		5.4	5.4	18.9
Foil				1.3	2.5	3.8	0	0	0	3.8
Food waste	0	4.9	4.9	148.8	177.4	326.2	0	3.8	3.8	334.9
Glass				17.6	10.2	27.8	70.8	153.9	224.7	252.5
Green Waste	1220.7	822.4	2043.1	0	0	0	0	0	0	2043.1
Hard polystyrene				0	0.4	0.4	0	0	0	0.4
Hard Waste				23.6	53.5	77.1	0	12.4	12.4	89.5
Landfill		12.1	12.1	68.5	144.9	213.4	51.05	70.4	121.45	346.95
Misc	4.8		4.8	1		1	0		0	5.8
Mussels	0	0	0							0
Nappies/Pads				51.6	33.6	85.2	0	0.4	0.4	85.6
Paper				12.2	16.9	29.1	91.4	101.8	193.2	222.3
Pill Packs				0.5	0.9	1.4	0	0	0	1.4
Pizza boxes					1.4	1.4		8	8	9.4
Plastics 1				5.54	6.6	12.14	8.5	7.6	16.1	28.24
Plastics 2				1.9	4.6	6.5	11.3	20	31.3	37.8
Plastics 3				0	0	0	0	0	0	0
Plastics 4				0	0	0	0	0	0	0
Plastics 5				4.6	7.9	12.5	4.6	6.6	11.2	23.7
Plastics 7				0	0	0	0	0	0	0
Plastics Misc				2.3	8	10.3	12.8	13.4	26.2	36.5
Poop				16.5	85	101.5	0	5	5	106.5
Soft Plastics				27.5	34.5	62	5.4	8.2	13.6	75.6
Soft Polystyrene				0	0	0	0	0	0	0
Steel cans				3.77	5.6	9.37	15.7			39.67
Take Away Packaging				4.1	14.5	18.6	1.9			28.3
Tetrapak				1.1	2.9	4	5.8			14.2
Tissues				15.9	20.4	36.3	0.5			36.8
Whole packaged food				8.2	26	34.2	0			34.2
Wood	2.5	0	2.5		0	3.4				5.9
	1228			468.91	725.4		394.45			4388.06



Table 43: Paynesville Secondary Classification for Audit One and Two - Litres

SUM of Litres	Stream	Audit								
Secondary Classification	Audit One	Audit Two	Green Waste Total	Audit One	Audit Two	Landfill Total	Audit One	Audit Two	Recycling Total	Grand Total
Batteries				42	0	42	0	0	0	42
Brown Cardboard				84	243.6	327.6	378	1852.2	2230.2	2557.8
Butts				0	4.2	4.2	0	0	0	4.2
CDS Cans				48.3	100.8	149.1	336	415.8	751.8	900.9
CDS Glass				3.78	23.1	26.88	210	264.6	474.6	501.48
CDS Plastics				37.8	88.2	126	252	499.8	751.8	877.8
Christmas paper					42	42		168	168	210
Clothes				84	168	252	0	8.4	8.4	260.4
Coal				0	0	0	0	0	0	0
Coated Cardboard				294	0	294	546	0	546	840
Coffee Cups / Bevs				0	0	0	0	0	0	0
Coffee Pods				2.1	0	2.1	0	0	0	2.1
Compost Packaging				0	0	0	0	0	0	0
Concrete				0	0	0	0	0	0	0
Construction				84	0	84				84
Contaminated Cardboard				0	0	0	294	0	294	294
Cooking items				0	0	0	0	21	21	21
Dust				12.6	4.2	16.8	0	0	0	16.8
Ewaste				42	25.2	67.2		25.2	25.2	92.4
Foil				8.4	46.2	54.6	0	0	0	54.6
Food waste	0	8.4	8.4		411.6	1041.6	0	10.5	10.5	1060.5
Glass		0.4	0.4	84	50.4	134.4	168	491.4	659.4	793.8
Green Waste	4998	5292	10290	0	0	0	0		0	10290
Hard polystyrene	4550	0202	10250	0	42	42	0	0	0	42
Hard Waste				168	252	420	0	151.2	151.2	571.2
Landfill		105	105	336	537.6	873.6	252	529.2	781.2	1759.8
Misc	42	103	42		337.0	42	0	J23.2	0	84
Mussels	0	0				42			U	0
Nappies/Pads		·	·	214.2	172.2	386.4	0	8.4	8.4	394.8
Paper				189	170.1	359.1	546	747.6	1293.6	1652.7
Pill Packs				4.2	8.4	12.6	0	0	0	12.6
Pizza boxes				4.2	105	105	U	168	168	273
Plastics 1				210	226.8	436.8	252	252	504	940.8
Plastics 2				84	90.3	174.3	462	693	1155	1329.3
Plastics 3				0	0	0	0	0	0	0
Plastics 4				0	0	0	0	0	0	0
Plastics 5				168	205.8	373.8	168	294	462	835.8
Plastics 7				0	0	0	0	0	0	0
Plastics Misc				84	231	315	336	470.4	806.4	1121.4
Poop				84	214.2	298.2	0	21	21	319.2
Soft Plastics				840	667.8	1507.8	252	168	420	1927.8
Soft Polystyrene				0	0	0	0	0	0	0
Steel cans				63	50.4	113.4	168	189	357	470.4
Take Away Packaging				88.2	273	361.2	84	189	273	634.2
Tetrapak				14.7	50.4	65.1	210	172.2	382.2	447.3
Tissues				210	176.4	386.4	2.1	0	2.1	388.5
Whole packaged food				63	84	147	0	0	0	147
Wood	42	0	42	42	0	42	0	0	0	84
Grand Total	5082	5405.4	10487.4	4361.28	4764.9	9126.18	4916.1	7809.9	12726	32339.58



Table 44: Mallacoota Secondary Classification for Audit One and Two - KGs

Secondary Classification	Audit One	Audit Two	Green Waste Total	Audit One	Audit Two	Landfill Total	Audit One	Audit Two	Recycling Total	Grand Total
Batteries				0	3.4	3.4	0	0.9	0.9	4.3
Brown Cardboard				0	13.14	13.14	0	116.5	116.5	129.64
Butts				0.4	0	0.4	0	0	0	0.4
Cans		3.1	3.1							3.1
Cardboard		4.08	4.08							4.08
CDS Cans				0.3	0.97	1.27	4.8	13.9	18.7	19.97
CDS Glass				1.3	4.04	5.34	41.8	122.9	164.7	170.04
CDS Plastics				1.6	1.47	3.07	5.9	8	13.9	16.97
Clothes				9.3	23.53	32.83	1.5	0	1.5	34.33
Coal				4.7	0	4.7	0	0	0	4.7
Coated Cardboard				8.5	0	8.5	73.6	0	73.6	82.1
Coffee Cups / Bevs				0	0	0	0.3	0.8	1.1	1.1
Coffee Pods				0	0	0	0	0	0	0
Compost Packaging				0	0	0	0	0	0	0
Concrete				0	0	0	0	0	0	0
Construction					31.39	31.39				31.39
Contaminated Cardboard				0	0	0	0	0	0	0
Cooking items				1.8	0	1.8	0	0	0	1.8
Dust				0	0.95	0.95	0	0	0	0.95
Ewaste				U	6.18	6.18	v	1.8	1.8	7.98
Foil				2.1	0.10	2.9	0.1	0.2	0.3	3.2
Food waste	55	33.09	88.09	91.7	189.54	281.24	0.1	2	2	371.33
Glass	55	11.29	11.29	10	109.54	201.24	89.8	206.3	296.1	329.39
Green Waste	766	389.48	1155.48	0	0	0	09.0	200.3	290.1	1155.48
	700	309.40	1100.40	0.1	0	0.1	0	0	0	0.1
Hard polystyrene Hard Waste				8.4	14.29	22.69	8.6	4.8	13.4	36.09
	16.6		46.6							
Landfill	10.0		16.6	56.1	36.46	92.56	11	11.5	22.5	131.66
Misc				0.1	0	0.1	0		0	0.1
Mussels Nappies/Pads	0		0	13.8	29.74	43.54	0	0.2	0.2	43.74
Paper		9.6	9.6	3.8	0	3.8	40	20	60	73.4
Pill Packs		3.0	3.0	0.4	0.37	0.77	0.1	0	0.1	0.87
Pizza boxes				0.4	0.51	0.77	0.1	7.4	7.4	7.4
Plastics 1				1.2	2.03	3.23	8.1	4.5	12.6	15.83
Plastics 2				3.2	1.93	5.13	11.2	9.4	20.6	25.73
Plastics 3				0.1	1.93	0.1	0	9.4	0	
					0					0.1
Plastics 4				0.4		0.4	0	0	0	0.4
Plastics 5				3.9	3.18	7.08	6.9	0.8	7.7	14.78
Plastics 7				0	0	0	0	0	0	0
Plastics Misc				1.1	8.4	9.5	1.8	17.3	19.1	28.6
Poop		4.2	4.2	2.5	13	15.5	0	0.1	0.1	19.8
Soft Plastics				22	23.81	45.81	2.2	2.5	4.7	50.51
Soft Polystyrene				0.1	0	0.1		0	0	0.1
Steel cans				7.4	4.26	11.66	12.4	23.5	35.9	47.56
Take Away Packaging				1.1	2.02	3.12	2.1	2.3	4.4	7.52
Tetrapak				8.0	0.7		4.9	4.4	9.3	10.8
Tissues				6.4	11.04	17.44	0	0	0	17.44
Whole packaged food				28.5	0	28.5	0	0.9	0.9	29.4
Wood	0		0	12.5	0	12.5	0	0	0	12.5



Table 45: Mallacoota Secondary Classification for Audit One and Two - Litres

Secondary Classification	Audit One	Audit Two	Green Waste Total	Audit Ono	Audit Two	Landfill Total	Audit One	Audit Two	Pocycling Total	Grand Total
	Addit One	Audit Two	Green waste total							
Batteries				0	8.4	8.4	0	4.2	4.2	12.6
Brown Cardboard				0	457.8	457.8	0	3192	3192	3649.8
Butts				0.84	0	0.84	0	0	0	0.84
Cans		16.8	16.8							16.8
Cardboard		75.6	75.6							75.6
CDS Cans				7.56	44.1	51.66	168	739.2	907.2	958.86
CDS Glass				2.1	33.6	35.7	210	613.2	823.2	858.9
CDS Plastics				46.2	56.7	102.9	210	512.4	722.4	825.3
Clothes				52.5	273	325.5	16.8	0	16.8	342.3
Coal				42	0	42	0	0	0	42
Coated Cardboard				294	0	294	1008	0	1008	1302
Coffee Cups / Bevs				0	0	0	4.2	50.4	54.6	54.6
Coffee Pods				0	0	0	0	0	0	0
Compost Packaging				0	0	0	0	0	0	0
Concrete				0	0	0	0	0	0	0
Construction					159.6	159.6				159.6
Contaminated Cardboard				0	0	0	0	0	0	0
Cooking items				42	0	42	0	0	0	42
Dust				0	21	21	0	0	0	21
Ewaste					46.2	46.2		21	21	67.2
Foil				52.5	33.6	86.1	0.42	8.4	8.82	94.92
Food waste	168	117,6	285.6	336	476.7	812.7	0	21	21	1119.3
Glass		109.2	109.2	126	58.8	184.8	294	869.4	1163.4	1457.4
Green Waste	4116	2310	6426	0	0	0	0	0	0	6426
Hard polystyrene	4110	2010	0120	4.2	0	4.2	0	0	0	4.2
Hard Waste				42	130.2	172.2	42	42	84	256.2
Landfill	84		84	378	331.8	709.8	126	184.8	310.8	1104.6
Misc	04		04	0.42	0	0.42	0	104.0	0	0.42
Mussels	0		0	0.42	U	0.42	U		0	0.42
Nappies/Pads	U		U	84	201.6	285.6	0	4.2	4.2	289.8
		75.0	75.0	-						
Paper Pill Packs		75.6	75.6	105 8.4	0 8.4	105	252	516.6 0	768.6	949.2
				6.4	0.4	16.8	4.2	_	4.2	21
Pizza boxes					400	240	252	420	420	420
Plastics 1				84	126	210	252	210	462	672
Plastics 2				126	67.2	193.2	336	537.6	873.6	1066.8
Plastics 3				2.1	0	2.1	0	0	0	2.1
Plastics 4				10.5	0	10.5	0	0	0	10.5
Plastics 5				210	75.6	285.6	252	50.4	302.4	588
Plastics 7				0	0	0	0	0	0	0
Plastics Misc				42	231	273	84	735	819	1092
Poop		84	84	42	42	84	0	4.2	4.2	172.2
Soft Plastics				546	722.4	1268.4	84	126	210	1478.4
Soft Polystyrene				0.42	0	0.42	0	0	0	0.42
Steel cans				63	56.7	119.7	168	348.6	516.6	636.3
Take Away Packaging				42	69.3	111.3	84	142.8	226.8	338.1
Tetrapak				14.7	42	56.7	168	201.6	369.6	426.3
Tissues				84	88.2	172.2	0	0	0	172.2
Whole packaged food				168	0	168	0	4.2	4.2	172.2
Wood	0		0	126	0	126	0	0	0	126
Grand Total	4368	2788.8	7156.8	3184.44	3861.9	7046.34	3763.62	9559.2	13322.82	27525.96



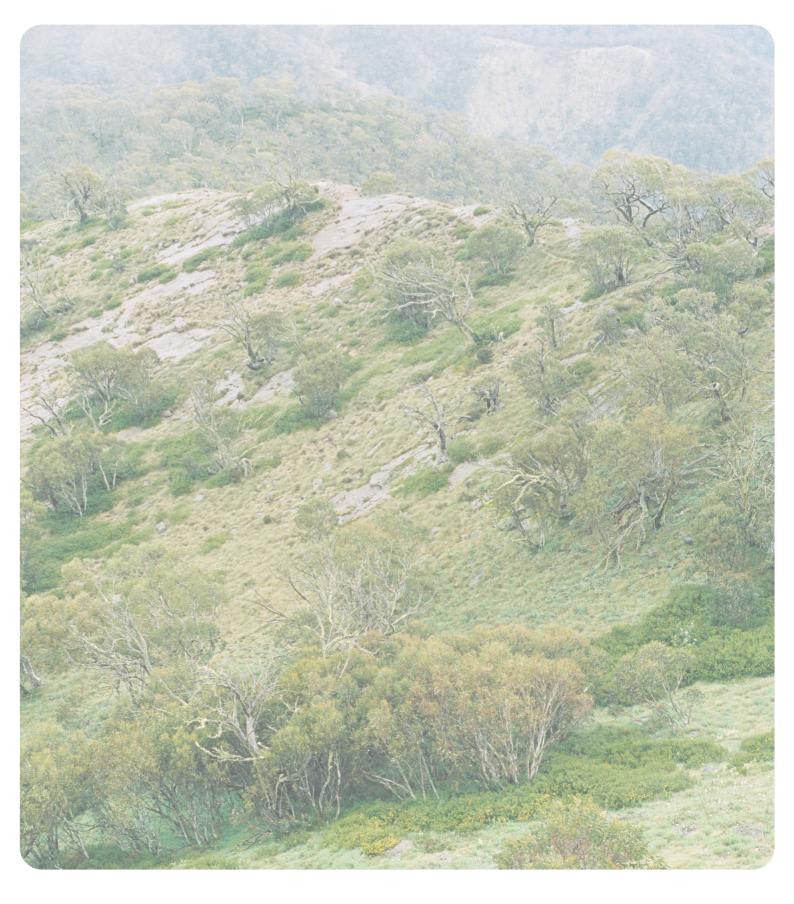
Table 46: East Bairnsdale Secondary Classification for Audit One and Two - KGs

SUM of Kilos	Stream	Audit	Conne Wests Total	Audit One	Audit Too	L and SU Tabel	Audit One	Audit Ton	Describes Total	Count Total
	Audit One	Audit Iwo	Green Waste Total							
Batteries				0	2	2	0		0.6	2.6
Brown Cardboard				0	10.5	10.5	0	115.1	115.1	125.6
Butts				0	0	0	0.05	0	0.05	0.05
CDS Cans				5.3	2	7.3	5.5	5.6	11.1	18.4
CDS Glass				6.8	2.6	9.4	21.6	37.7	59.3	68.7
CDS Plastics				8.8	3.6	12.4	14.6	12.6	27.2	39.6
Clothes				5.6	11.7	17.3	21.9	12.7	34.6	51.9
Coal				0	0	0	0	0	0	0
Coated Cardboard				27.1	0	27.1	47.8	0	47.8	74.9
Coffee Cups / Bevs				0	0	0	0	0	0	0
Coffee Pods				0	0	0	0	0	0	0
Compost Packaging				0	0	0	0	0	0	0
Concrete				0	0	0				0
Construction					7.6	7.6	9.2	0	9.2	16.8
Contaminated Cardboard				0	0	0	0	0	0	0
Cooking items				13.6	1.3	14.9	0	0	0	14.9
Dead Animals				30.6		30.6				30.6
Dust				0	0.3	0.3	0.4	0	0.4	0.7
Ewaste					8.0	0.8	23.3		23.3	24.1
Foil				2.2	2.6	4.8	0.1	0.4	0.5	5.3
Food waste	10.5	37.1	47.6	149.6	158.7	308.3	36.4	3.5	39.9	395.8
Glass				6.4	7.7	14.1	27.5	84.2	111.7	125.8
Green Waste	1150.5	1116.4	2266.9	4	9.9	13.9	0	0	0	2280.8
Hard polystyrene				0	0	0	0	0.3	0.3	0.3
Hard Waste				26.6	19.5	46.1	12.3	10.3	22.6	68.7
Landfill	14	3.8	17.8	137.6	85.2	222.8	157.6	38.4	196	436.6
Misc		0.0		0.7	0	0.7				0.7
Mussels	0	0	0	0.1		0.1				0.7
Nappies/Pads				90.4	36	126.4	11.7	5.6	17.3	143.7
Paper				23.7	14	37.7	57.1	70.7	127.8	165.5
Pill Packs				0.6	0.3	0.9	0.2	0.1	0.3	1.2
Pizza boxes					0.0	0.0	0.2	6.7	6.7	6.7
Plastics 1				6.9	4.2	11.1	8			30.3
Plastics 2				9.7	4.8	14.5	23			53.3
Plastics 3				0.7	0	0	0		0	0
Plastics 4				0	0	0	0		0	0
Plastics 5				4	5.4	9.4	6	6	12	21.4
Plastics 7				0	0.4	0	0	0	0	0
Plastics Misc				7.5		12.9	2.5	_	7	19.9
				7.3	5.4					
Poop					47.6	54.9				76.6
Soft Plastics				25.4	23.4	48.8	11.4			64.8
Soft Polystyrene				0	0.3	0.3				0.3
Steel cans				11.6	9.7	21.3	16.2			49.5
Take Away Packaging				24.6	12.3	36.9	9.8			55.4
Tetrapak				4.7	1.8	6.5	2.1			12.7
Tissues				17.3	11.5	28.8	0	0	0	28.8
Whole packaged food				10.3	20.4	30.7	39.3			70
Wood	0	0	0	0	0	0	0	0	0	0
Grand Total	1175	1157.3	2332.3	668.9	523.1	1192	587.25	471.4	1058.65	4582.95



Table 47: East Bairnsdale Secondary Classification for Audit One and Two - Litres

SUM of Litres	Stream	Audit								
Secondary Classification	Audit One	Audit Two	Green Waste Total	Audit One	Audit Two	Landfill Total	Audit One	Audit Two	Recycling Total	Grand Total
Batteries				0	4.2	4.2	0	1.26	1.26	5.46
Brown Cardboard				0	210	210	0	2230.2	2230.2	2440.2
Butts				0	0	0	0.42	0	0.42	0.42
CDS Cans				252	54.6	306.6	210	184.8	394.8	701.4
CDS Glass				128.1	8.4	136.5	126	168	294	430.5
CDS Plastics				252	88.2	340.2	336	474.6	810.6	1150.8
Clothes				42	54.6	96.6	126	96.6	222.6	319.2
Coal				0	0	0	0	0	0	0
Coated Cardboard				588	0	588	1134	0	1134	1722
Coffee Cups / Bevs				0	0	0	0	0	0	0
Coffee Pods				0	0	0	0	0	0	0
Compost Packaging				0	0	0	0	0	0	0
Concrete				0	0	0				0
Construction					42	42	42	0	42	84
Contaminated Cardboard				0	0	0	0	0	0	0
Cooking items				84	4.2	88.2	0	0	0	88.2
Dead Animals				126		126				126
Dust				0	4.2	4.2	4.2	0	4.2	8.4
Ewaste					2.1	2.1	84		84	86.1
Foil				31.5	29.4	60.9	0.42	12.6	13.02	73.92
Food waste	42	109.2	151.2	588	378	966	168	12.6	180.6	1297.8
Glass	42	100.2	101.2	42	25.2	67.2	126	315	441	508.2
Green Waste	4830	6552	11382	42	2184	2226	0	0	0	13608
Hard polystyrene	4030	0332	11302	0	0	0	0	8.4	8.4	8.4
Hard Waste				126	130.2	256.2	84	96.6	180.6	436.8
Landfill	84	33.6	117.6	882	462	1344	840	281.4	1121.4	2583
	04	33.0	117.0		402		040	201.4	1121.4	4.2
Misc				4.2	U	4.2				
Mussels	0	0	0		455.4	050.4	400	40.0	440.0	0
Nappies/Pads				504	155.4	659.4	126	16.8	142.8	802.2
Paper				462	142.8	604.8	462	760.2	1222.2	1827
Pill Packs				8.4	10.5	18.9	4.2	2.1	6.3	25.2
Pizza boxes								273	273	273
Plastics 1				210	142.8	352.8	336	466.2	802.2	1155
Plastics 2				210	138.6	348.6	630	722.4	1352.4	1701
Plastics 3				0	0	0	0	0	0	0
Plastics 4				0	0	0	0	0	0	0
Plastics 5				168	159.6	327.6	252	239.4	491.4	819
Plastics 7				0	0	0	0	0	0	0
Plastics Misc				252	163.8	415.8	84	201.6	285.6	701.4
Poop				84	117.6	201.6	42	0	42	243.6
Soft Plastics				756	730.8	1486.8	294	214.2	508.2	1995
Soft Polystyrene				0	50.4	50.4	0	0	0	50.4
Steel cans				168	84	252	168	197.4	365.4	617.4
Take Away Packaging				504	285.6	789.6	210	344.4	554.4	1344
Tetrapak				126	37.8	163.8	84	126	210	373.8
Tissues				294	142.8	436.8	0	0	0	436.8
Whole packaged food				42	67.2	109.2	126	0	126	235.2
Wood	0	0	0		0	0	0	0	0	0
Grand Total	4956	6694.8			6111	13087.2	6099.24	7445.76	13545	38283



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