

Bath & North East Somerset Council recycling end use report 2021-2022

In 2021-22, over 50,000 tonnes of Bath & North East Somerset residents' waste was reused or recycled, achieving an overall recycling rate of 59.2%. The tables below detail the amount of each material collected by the Council that was reused or recycled, the proportion that was sent for recycling in the UK, and the treatment process.

You can access a more detailed breakdown of what happened to all waste and recycling collected in Bath & North East Somerset from the public 'WasteDataFlow' website: www.wastedataflow.org/

Materials collected from households

Material	Weight in tonnes	Where is it recycled?	Percentage sent for recycling in the UK	Re-processor	How is it recycled or reused?
Aluminium	139	UK	100%	Thamesdown Recycling, Swindon Alutrade, West Midlands	Smelted and reused to make new aluminium packaging and products.
Steel cans	244.9	UK	100%	Morris Metals, Port Talbot, Wales EJH recycling, Llaneli, Wales	Shredded, cleaned then melted to make new products.
Car batteries	8.8	UK	100%	H J Enthoven, West Midlands	Separated into fractions and reprocessed into new batteries or reused as raw materials.
Cardboard	4,739.7	UK	100%	D S Smith, Bristol Smurfit Kappa, Birmingham	Turned into pulp to remove impurities, then dried into new sheets of card.

				M&J Bowers, Yeovil Packaged Group PLC	
Clothing & footwear	60.4	UK, Africa, Eastern Europe & India	10%		Sorted and graded. Highest quality items exported for reuse. Lesser grade items recycled into industrial wipes or used for fibre reclamation.
Food waste	7,240.6	UK	100%	GENeco, Avonmouth	All liners/bags are removed mechanically, then the food is shredded and mixed before being Anaerobically Digested to produce biogas for electricity and a digestate which is used as fertiliser.
Garden waste	8,359.4	UK	100%	RM Penny Phoenix Green Solutions, South Gloucestershire	Garden waste is taken to a composting site where contaminants are removed before it is then shredded. The enzymes and bacteria that are present begin to breakdown the garden waste, eventually turning it into nutrient-rich compost.
Mixed glass	6,091.9	UK	100%	URM, South Kirby Recresco, Cwmbran	Glass goes through a series of processes to remove any waste products, such as paper, metals and other impurities. It is then cleaned and sorted by colour before being crushed. The final product is known as cullet which is sold on to be melted into new glass containers.
Household batteries	4.5	UK	100%	Mercury Recycling, Lancashire	Separated into fractions and reprocessed into new batteries or reused as raw materials.
Paper	2,299.9	UK	100%	Palm Paper, Norfolk	Paper is turned into a pulp to separate the useable fibres from impurities such as ink, staples, and plastics. The paper pulp is then dried and wound onto large reels, ready to be made into new products like your morning newspaper.
Mixed plastic	925.7	UK	100%	Jayplas, Corby	Mixed plastics are cleaned and sorted into their different types and colours. Depending

					on the type, plastics are then shredded, melted and pelletised before being sold to suppliers who can use them to create new bottles, bags and even clothes.
Mixed cans & plastic	1.909.7	UK	100%	SUEZ, Bristol Jayplas, Corby	Plastics and cans are mechanically separated using magnets and infrared sensors. Materials are then cleaned, shredded and melted, with plastics being made into pellets and metals into casts.
Engine oil	0	UK	100%	West Oils, Gloucester	Reprocessed into low -grade fuel oil for asphalt plants and generators.
Toner cartridges	1.1	UK	100%	SafetyKleen, Bristol	Old cartridges are assessed to clarify those that can be re-filled and re-used. Components that fail these tests are removed and recycled into other products.
Mixed materials (from flat collections)	30.9	UK	100%	SUEZ, Bristol	The small amount of co-mingled dry recycling collected from some flats is sent to a Materials Recovery Facility where the materials are separated with magnets and infrared sensors, then baled to be sent on to other processors.
Small WEEE	41.2	UK	100%	Sims, Bristol	Small electricals are shredded and separated into individual components such as plastic, metal, batteries and circuit boards, which are then recycled.

Materials taken to Household Recycling Centres and Bring Banks

Material	Weight in tonnes	Where is it recycled?	Percentage sent for recycling in the UK	Re-processor	How is it recycled or reused?
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Mixed plastic & cans	39.1	UK	100%	SUEZ, Bristol Jayplas, Corby	Plastics and cans are mechanically separated using magnets and infrared sensors. Materials are then cleaned, shredded and melted, with plastics being made into pellets and metals into casts.
Hard plastics	22.6	UK	100%	Grist, Wiltshire	Shredded and graded before being sent off for processing into new product
Car batteries	27.1	UK	100%	G&P Batteries, West Midlands	Separated into raw material components to be recycled.
Cardboard	746	UK	100%	D S Smith, Bristol Smurfit Kappa, Birmingham M&J Bowers, Yeovil	Turned into pulp to remove impurities, then dried into new sheets of card.
Clothing	222.7	UK, Africa, Eastern Europe & India	10%	Packaged Group PLC	Sorted and graded. Highest quality items exported for reuse. Lesser grade items recycled into industrial wipes or used for fibre reclamation.
Food waste	5.1	UK	100%	GENeco, Avonmouth	All liners/bags are removed mechanically, then the food is shredded and mixed before being Anaerobically Digested to produce biogas for electricity and a digestate which is used as fertiliser.
Engine oil	15.8	UK	100%	West Oils, Gloucester	Reprocessed into low -grade fuel oil for asphalt plants and generators.
Fluorescent tubes	3	UK	100%	Mercury recycling, Manchester	Separated into components and recycled
Fridges & freezers	141.7	UK	100%	Sims, Bristol	Degassed and broken up into separate components for recycling.
Garden waste	3,143.5	UK	100%	Green Ore Phoenix Green Solutions, South Gloucestershire	Garden waste is taken to a composting site where un-wanted items are removed before it is then shredded. The enzymes and bacteria that are present begin to

					breakdown the garden waste, eventually turning it into nutrient-rich compost.
Gas bottles	20.7	UK	100%	Environmental Concern, West Midlands	Gas bottles are reused by being refurbished and re-filled.
Mixed glass	89.1	UK	100%	URM, South Kirby Recresco, Cwmbran	Glass goes through a series of processes to remove any waste products, such as paper, metals and other impurities. It is then cleaned and sorted by colour before being crushed. The final product is known as cullet which is sold on to be melted into new glass containers.
Small WEEE	614.8	UK	100%	Sims, Bristol	Small electricals are shredded and separated into individual components such as plastic, metal, batteries and circuit boards, which are then recycled.
Paper	212.9	UK	100%	Palm Paper, Norfolk	Paper is turned into a pulp to separate the useable fibres from impurities such as ink, staples, and plastics. The paper pulp is then dried and wound onto large reels, ready to be made into new products like your morning newspaper.
Plasterboard	312.8	UK	100%	ETM recycling, Bristol	The material is separated into plaster and paper. The plaster is blended with virgin or synthetic gypsum to make new plaster board. The paper is shredded and used in a number of paper processes.
Rubble & soil	3,553.8	UK	100%	MJ Church, Marshfield	Screened to separate rubble from soil. Rubble is crushed up to be reused as aggregates; soil is reused for landscaping.
Scrap metal	1,174.6	UK	100%	Sims, Bristol	Metals are separated into different types such as steel, aluminium, lead etc. and recycled individually usually by being melted down and remoulding into new metal items.
TV & monitors	109.8	UK	100%	Mekatek, Wales	Broken down into separate components for recycling

Tyres	28.8	UK	100%	R J King & Sons, Farrington Gurney	The steel rims are recycled into new metal products, and the rubber is shredded and used as a fuel in Energy from Waste plants.
Vegetable oil	15.8	UK	100%	Oleco, Newport	Reprocessed into Biodiesel and lubricants.
Bulky waste	3,406.9	UK	100%	ETM, Bristol	Bulky waste is first crushed then shredded to homogenise, before going through a multi-stage separation process to separate component materials for onward recycling.
Wood	2,668	UK	100%	M J Church South West Wood, Cumbria	Chipped for recycling or used as biomass for energy generation.
Textiles (Bring banks)	2.6	UK, Africa, Eastern Europe & India	80%	Green World Recycling, West Midlands Oxfam British Heart Foundation, Esher	Good quality clothing can be resold in charity shops or reused in developing countries. Clothing that cannot be resold is reused as rags or separated into individual fibre types to be recycled.
Shoes/Textiles (Bring banks)	1.96	Africa, Eastern Europe & India	0%	SOEX, Surrey	Good quality items sent abroad, if unsuitable then recycled.