

**BDR WASTE PFI
BDR MANAGER ANNUAL UPDATE REPORT**

APRIL 2016 – MARCH 2017

1.0 Governance

1.1 Inter-Authority Agreement (IAA)

1.1.1 The legal agreement that dictates how the BDR Councils will work together, the Inter Authority Agreement, was reviewed to ensure it is fit for purpose for the operational phase of the Contract. It was signed under seal on the 27th September 2016.

1.2 Senior Responsible Officer

Damien Wilson, Strategic Director of Regeneration and Environment RMBC took over the role of SRO for the BDR PFI Waste Treatment Contract.

1.3 BDR Liaison Committee Meeting

1.3.1 Damien Wilson, Strategic Director of Regeneration and Environment RMBC as SRO became the Chair of the BDR Liaison Committee and the annual review meeting was held on 12th October 2016.

1.3.2 The following matters were discussed:

- Member representation at the Community Liaison Group, it was agreed that the matter of regular engagement attendance by the agreed Ward Members of all Councils should be emphasised.
- Provision of information by 3SE to the BDR Manager, it was agreed that 3SE should ensure information was provided in a timely manner for due consideration by the BDR Councils Representative.
- 3SE updated the meeting on issues that had been identified with the shredder rails, it was agreed that this was a design defect and they were to be replaced in November.

1.3.3 The following Key priorities for 2016/17 were agreed:-

Achieving key Contract Targets

- Landfill diversion
- Recycling targets

Engagement with the Environment Agency

- Improve understanding of the relationship between technology function and the surrounding environment

Community Liaison

- Continued liaison with local community
- Contribution to BDR joint waste strategy work
- Waste minimisation plan
- Working with 'hard to reach' groups and schools

1.4 Steering Committee

- 1.4.1 The Chair of the BDR Steering Committee will rotate from RMBC in July 2017; the BDR Team would like to thank Karen Hanson for her hard work during 2016/17.

1.5 South Yorkshire Leaders Meeting

- 1.5.1 The BDR Manager is to attend the South Yorkshire Leaders Meeting November 2017 to present the Annual Service and Environmental Report. An update on the progress of the South Yorkshire Municipal Waste Strategy will also be provided.

1.6 Operating Contractor (OpCo)

- 1.6.1 The Contract has operated for most of the Contract Year with interim OpCo Contract Directors, pending the start of a permanent Director who will be dedicated exclusively to the project. A new Contract Director dedicated exclusively to the BDR Project is scheduled to join the business on 10 July 2017.

1.7 Shanks Merger

- 1.7.1 Shanks PLC announced the completion of its merger with Van Gansewinkel Group, to form a new company to be called 'Renewi'. While operationally this change has no consequences for the 3SE Contract, it does make 'former Shanks' part of a larger and even stronger business, with access to new recycling expertise from across the Group.

2.0 Contract Delivery

2.1 Bolton Road

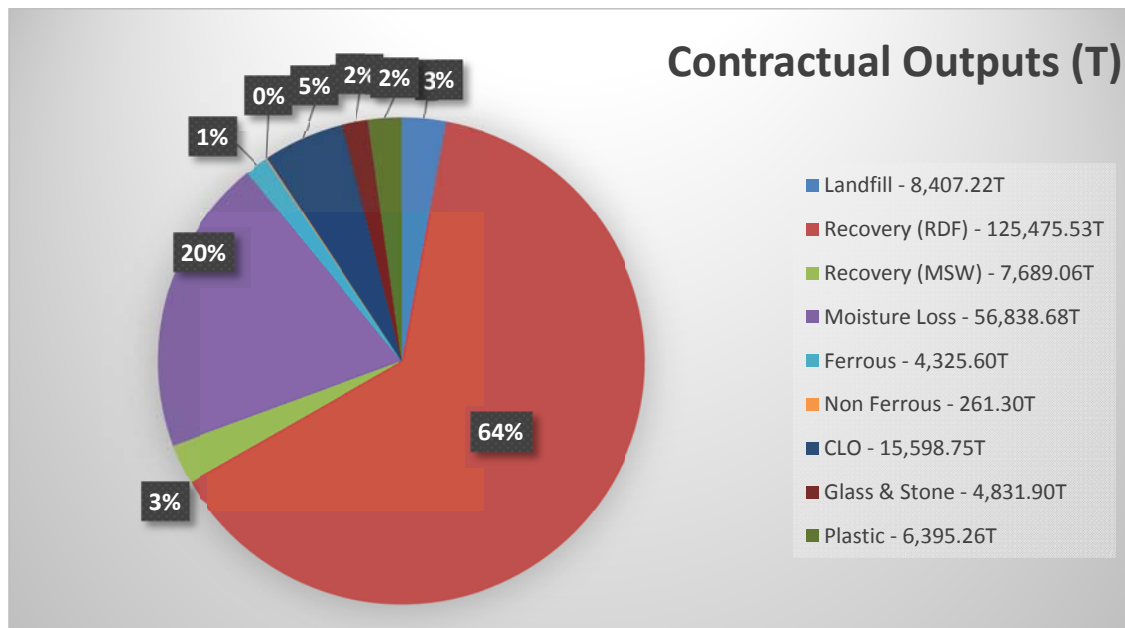
- 2.1.1 The MBT and refinement/recycling facility dealt with a number of key challenges during the year. These included the complete replacement of the shredder rails in the MBT plant, and a number of breakdowns in the MBT and refinement building to both cranes and other items of plant.
- 2.1.2 There was a fire in the reception area of the plant that had started in some HWRC waste. This impacted on the fire system and resulted in waste being diverted for a short while.
- 2.1.3 3SE continue to work with Protec the fire protection system manufacturer, to refine the existing fire detection systems which remain broadly acceptable but are in need of augmentation in some areas. The system is sensitive and several false alarms were activated during January and early February resulting in some delays to receipt of RCV waste.
- 2.1.4 Waste originating from Household Waste Recycling Centres proved difficult to process with carpets and mattresses causing a number of blockages resulting in plant downtime.
- 2.1.5 The staffing structure has been reviewed and additional Supervisor grade employees are being recruited to augment cover, in particular during hours outside of normal day shifts.

Table 2.1.1 Performance - Tonnage

Authority	Contract Waste Tonnage	Percentage Breakdown
Barnsley	65,491.43	29%
Doncaster	86,591.28	39%
Rotherham	72,504.38	32%
TOTAL	224,587.09	100%

- 2.1.6 Table 2.1.1 shows the tonnage of contract waste delivered to the facility from 1st April 2016 to the 31st of March 2017. In addition to the councils tonnages the plant accepted 14,958 tonnes of third party waste.

Figure 2.1.1 Contractual Outputs



2.1.7 Figure 2.1.1 represents the contractual outputs from the waste treatment facility once the residual waste has been treated through the Mechanical Biological Treatment (MBT) and Anaerobic Digestion (AD) processes.

Table 2.1.2 Contract Targets

	Recycling %	Diversion %
Contract Target	19%	95%
Barnsley	13.79%	85.01%
Doncaster	11.81%	98.28%
Rotherham	12.19%	96.89%
Contract Performance	12.84%	95.89%

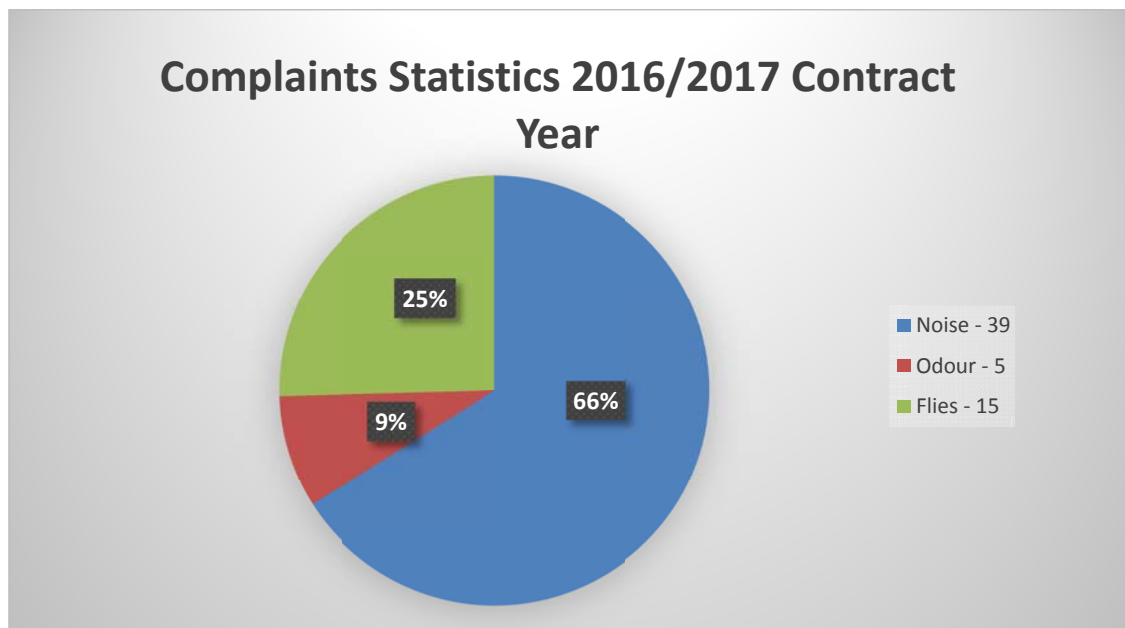
2.1.8 There is a variation in the recycling rates due to the differing contingency points used if waste has to be diverted. Barnsley waste is bulked at Barnsley Transfer Station and can be sent to an alternative facility with no impact on the collection service. Doncaster and Rotherham direct deliver waste to Bolton Road and their contingency points are close to the areas they collect from.

2.1.9 Similarly the difference in landfill diversion rates is a direct result of the contingency points used. In the early months of the year Barnsley waste was sent to landfill, latterly an alternative MBT facility was sourced.

2.1.10 It should be noted that it can be difficult to ensure the same contingency point is available as the facilities used will attempt to obtain certainty of supply rather than keep capacity for something that may not happen. It is possible that a take or pay agreement would secure capacity but that would not be good value.

2.2 Complaints

Figure 2.2.1 Complaint Statistics



2.2.1 A total of 59 complaints were received. These were in relation to noise, odour and flies coming from the facility.

2.2.2 Throughout the year, Shanks have made efforts to reduce and resolve noise complaints by installing acoustic barriers and silencers

2.2.3 Fly complaints are a seasonal issue at many waste facilities. The fly count in the bio-drying halls at Bolton Road can be high but there are measures in place to contain any flies delivered into the facility including fast action doors, fine mist sprays, application of chemicals to disrupt the fly cycle and frequent fly knock down treatments. Fly counts are taken on a weekly basis and the information is supplied to the BDR Manager on a monthly basis. Any complaints are passed through as they occur and the results of investigations reported.

2.2.4 Of the complaints, only 5 have been related to odour. Both the BDR Contract compliance Officer and BDR Admin Officer have calibrated noses and monitor odour on a regular basis neither they nor the EA have

substantiated these complaints. However, there are a number of additional odour sources in the area including a sewage treatment works close to Brook Park.

Table 2.2.1 Details of Communications with any Relevant Authority

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
EA inspections @ BDR Bolton Road	0	2	0	0	0	0	0	0	0	0	0	1
EA inspection @ Barnsley Transfer Station	0	0	0	0	0	0	0	0	0	0	0	0
CAR Received BDR Bolton Road	0	2	0	0	2	0	2	1	0	1	2	0
CAR Received Barnsley Transfer Station	0	0	0	0	0	0	0	0	0	0	0	0
HSE Enforcement notices BDR Bolton Road	0	0	0	0	0	0	0	0	0	0	0	0
HSE Enforcement notices Barnsley Transfer Station	0	0	0	0	0	0	0	0	0	0	0	0
HSE Cautions BDR Bolton Road	0	0	0	0	0	0	0	0	0	0	0	0
HSE Cautions Barnsley Transfer Station	0	0	0	0	0	0	0	0	0	0	0	0
Environmental Complaints (All Operations)	4	7	12	10	0	0	0	0	0	0	0	0
New Permits, Variations, Revocations & Suspensions issued. (All Operations)	0	0	0	0	0	0	1	0	0	0	0	0

2.2.5 Shanks as OpCo have been working closely with the Environment Agency to ensure they remain compliant with their environmental permits.

2.2.6 The Company secured all its Environmental quality accreditations following the completion of independent audits in July.

2.2.7 Objectives have been identified in the site's project development plan to tackle a number of important site improvements during the year, including the following:

- Fire monitoring & control enhancements (as required by insurers)
- Improvements to the site's bio-drying capability
- Reducing down-time in the refinement section of the facility
- Possible installation of additional processing equipment
- AD improvements to the ammonia control systems, and

- Segregation of bulky items from HWRC waste

2.3 Ferrybridge

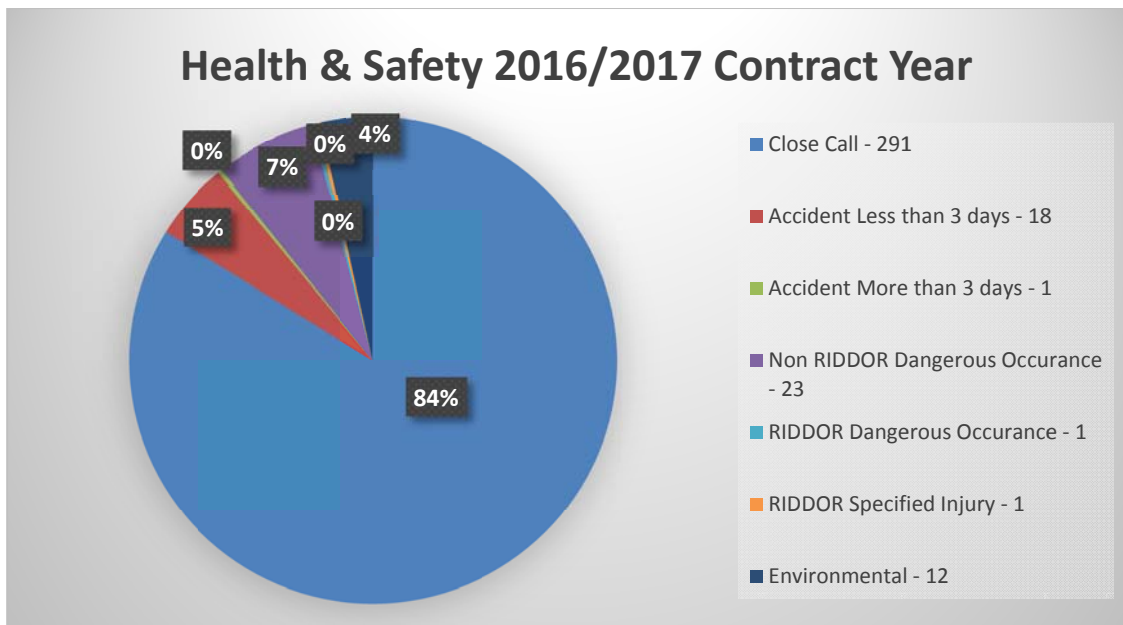
- 2.3.1 BDR refuse derived fuel is sent to Ferrybridge Multifuel 1 (FM1), a 50:50 joint venture project between SSE and Wheelabrator Technologies Inc. FM1 takes waste derived fuels from various sources of municipal solid waste.
- 2.3.2 FM1 has proved such a success that SSE are already in the construction period for FM2 which is located on land adjacent to the existing site
- 2.3.3 During 2016/17 Ferrybridge generated 301,755 MWhrs of electricity and accepted 127,035 tonnes of BDR's RDF

2.4 Grange Lane

- 2.4.1 The work necessary to bring the Barnsley transfer station up to a good and tenable standard has been agreed by Shanks and Carter Towler, Barnsley's Building Consultants, Carter Towler are to liaise with FCC to agree the extent of their liability as the outgoing leases.
- 2.4.2 Following the completion of these works, Shanks will commence a program of improvement works.

2.5 Health and Safety

Figure 2.5.1 Health & Safety Statistics 2016-17



- 2.5.1 Shanks uses the SHE Assure incident reporting database to record and action health and safety incidents at their sites.

2.5.2 This database presents information in a simple to use format with search and filtering tools along with a wide range of dashboard and reporting options. All reports are reviewed by the Shanks Compliance department who can use this information to recommend that operational sites; update site rules, standard operating procedures and identify areas where further training may be required.

2.5.3 Comprehensive action is taken by Shanks operational staff where incidents occur. Incidents and actions are reviewed by Operational Managers from each authority and internal Health and Safety Officers at the quarterly health and safety meetings.

3.0 Legal

3.1.1 The Joint Insurance Cost Report has been submitted and rejected due to concerns over the interpretation of the requirements.

3.1.2 The insurance market has hardened for MBT facilities

4.0 Financial

4.1.1 The Operational Management costs for 2016/17 were within budget.

Table 4.1.1 Operational Management Budget

Contract Manager detail	Data			
	Sum of Spend to date	Sum of Total Forecast 2016/17	Sum of Budget 2016-17	Sum of Variance 2015/16
Administration	25,083	25,083	18,584	6,499
Call off Finance	338	338	1,120	-782
Call off Legal	58,586	58,586	67,551	-8,965
Call off Technical	0	0	0	0
Contingency Advisor Costs	7,800	7,800	10,000	-2,200
External Finance	15,754	15,754	26,329	-10,575
External Legal	0	0	8,300	-8,300
External Technical	50,581	50,581	45,500	5,081
Management	118,905	118,905	118,905	0
Project Work Advisor Costs	0	0	74,695	-74,695
Grand Total	277,046	277,046	370,984	-93,938

4.1.2 It is proposed that the 2017/18 operational management budget be decreased by £14,439 on the 2016/17 budget of £370,984. The BDR

Team are assisting with operational reviews and HWRC procurement and the budget takes account of any changes as far as is possible.

4.1.3 The Unitary Charge for the 2016/17 financial year totalled. £22,346,958.87

4.1.4 The Partnership received Waste Infrastructure Credits from DEFRA to the value of £5,962,016.00

5.0 Communications

5.1 Awards and Community Education and Liaison Officer (CELO)

5.1.1 The BDR PFI was shortlisted for two National Recycling Awards 2016 and won the Best Energy from Waste Initiative category.

5.1.2 The BDR Manager was on the Judging Panel for the National Recycling Awards 2017 category of Equipment Innovation of the Year.

5.1.3 WRAP recycle week took place w/c 12th of September, the CELO attended a number of events with BDR local officers including the Penistone and Rotherham Show.

5.1.4 The visitor centre has hosted visits from various stakeholders including Elected Members, York and North Yorkshire Waste Management Partnership officers and the Community Liaison Group have their meetings there.

5.1.5 The CELO also developed a campaign plan, resources and materials and, with the assistance of the three Councils, is delivering a targeted Love Food Hate Waste campaign which will end on the 5th July 2017.

5.1.6 The campaign used best practice techniques and WRAP research to encourage residents to reduce the amount of food waste being thrown away across Barnsley, Doncaster and Rotherham. It used a combination of social media, traditional print media and events to communicate with and inspire the maximum possible number of residents.

5.1.7 The South Yorkshire Waste Strategy remains the focus of the communications work.

6.0 Resources

6.1.1 The BDR Partnership Team has had no change of staff in 2016/17. The core team consists of the BDR Manager, BDR Contract Compliance Officer and BDR Project Administrator. There is additional support as required from a legal locum, and internal and external technical and financial advisors.

7.0 Other

7.1 South Yorkshire Municipal Waste Strategy (SYMWS)

7.1.1 A draft waste strategy is being considered by the South Yorkshire Councils

7.2 Waste Electrical and Electronic Equipment (WEEE) Reuse

7.2.1 A WEEE Re-use scheme is being run across the BDR HWRC's. Small electrical items are being collected for reuse, for example Televisions and Vacuum cleaners. The scheme is being run in a partnership between FCC, Advantage Waste Brokers and Doncaster refurbish.

7.3 Compositional Analysis

7.3.1 The 2016/17 Waste Compositional Analysis (WCA) was completed in March 2017. A Waste Compositional Analysis (WCA) looks at the type of waste that is left in the residual black bin.

7.3.2 Figure 7.1 below represents the amount of waste collected per household per year during the surveys (as an annual figure), it show the historical data from 2009 and 2014. There is a pattern across each authority to the total kilograms per household per year. The amount of waste sampled in 2014 was less across each authority than in 2009 and 2017. This pattern may be as a result of the recession in 2011, during the recession consumer habits change resulting in less waste to dispose of. This impact of the recession may still have been prevalent in 2014 and as the economy has recovered it may have impacted the 2017 waste arising's.

Figure 7.3.1 Total kilograms per household per year

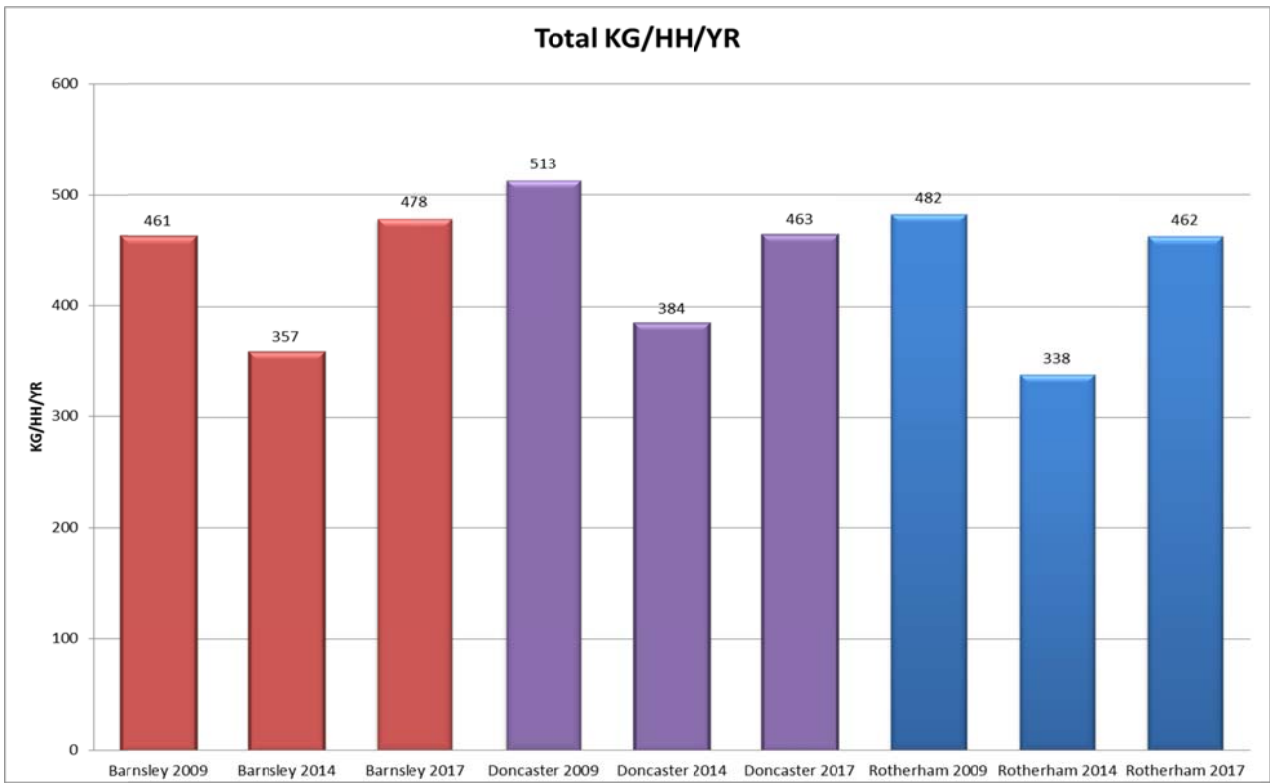
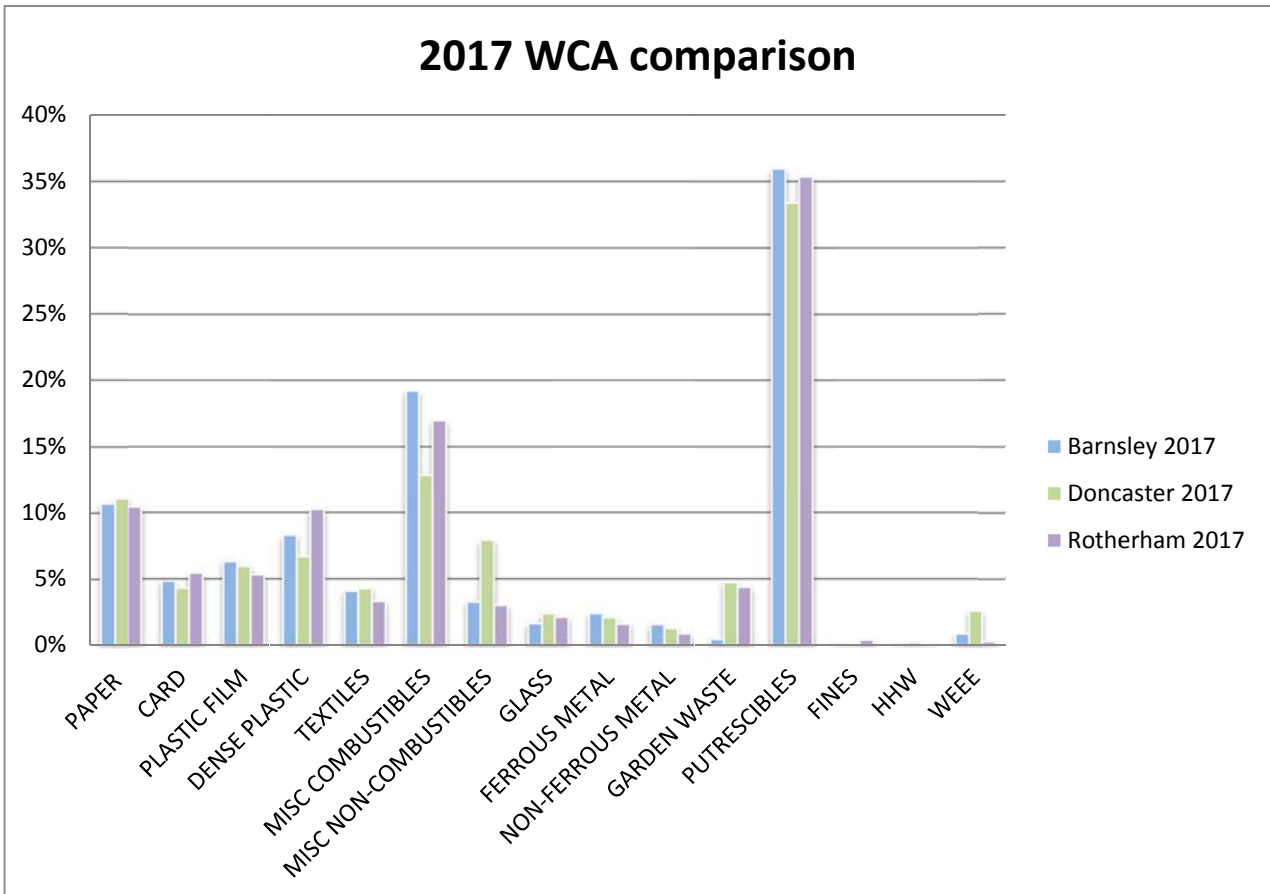


Figure 7.3.2 2017 Waste Composition Analysis Comparison



- 7.3.3 Figure 7.3.2 contains the 2017 WCA by material for each authority. The three authorities have very similar waste compositions. Key differences are in Garden waste where BMBC residents are disposing of very little in the residual waste.
- 7.3.4 DMBC has lower miscellaneous combustibles (nappies, carpets, pet bedding, wood waste etc.) and higher non-combustibles or inerts (DIY rubble, cement, gravel, cat litter clay etc.).
- 7.3.5 RMBC has a slightly higher amount of dense plastic in the residual waste stream that may be linked to the fact that there is no kerbside collection of plastic bottles.
- 7.3.6 Further information on the local authority WCA can be found in Appendix 1

8.0 Shanks Corporate Social Responsibility Fund

- 8.1.1 The first successful project for the BDR / Doncaster area is b: Friend. The group applied for £1,937 to fund Love Food Hate Waste (LFHW) Training, a waste booklet and community-sharing network aimed specifically at older isolated people in Doncaster and sessions targeting this group to reduce social isolation. The group was awarded £2,000. After discussions with the group, it was decided that Shanks would also offer support in the form of volunteer hours to assist with the development of the waste booklet, content of meetings and reused craft activities. It has also been possible for Shanks to assist the group by offering the opportunity for session facilitators to occupy spaces on undersubscribed first aid courses earning them a QCF Level 3 First Aid at Work qualification to improve the level of care offered at sessions.
- 8.1.2 The second successful project for the BDR / Doncaster area is Mexborough Food Bank. The group applied for £3,000 to assist with the running costs of the food bank and food collections from shops as well as grow, cook and eat and food awareness sessions. The group was awarded £2,000. After discussions with the group, it was concluded that having an OCN Level 2 Nutritional Skills Trainer for the NHS in their volunteer team the group would be well placed to deliver this with LFHW advice from the CELO if needed.
- 8.1.3 The successful project for the Barnsley area is Forge Community Partnership. The group applied for £3,500 to provide nutrition and cook and eat sessions with parents accessing their services. The group was awarded £1,000. The group will use this money to run workshops to

develop confidence, budget planning and nutritional awareness in parents of primary aged children who are economically inactive and older residents who suffer from lower social wellbeing. The purpose of these sessions will be to give parents confidence and awareness in preparing healthy, nutritious foods that will contribute to a reduction in childhood obesity whilst reducing family expenditure.

- 8.1.4 The successful project for the Rotherham area is Don Catchment Rivers Trust who had applied for £2,998 to engage the local community in looking after the river and its environs through clean-up days, community activities and education sessions. The application included £2,048 for the employment of a member of staff for the project and £950 for the production of leaflets and advertising, litter picking equipment and rooms and services for community events. The panel did not feel that it would be appropriate for Shanks to fund the employment of a project officer but were happy to fund the equipment needed to advertise, undertake and facilitate community events, education and clean-up days. The group was awarded £1,000. The group will use this money to purchase the materials needed to complete clean-up days and promote these and community and education events designed to encourage the community to care for their river.

9.0 Glossary of Terms

Term	Definition
3SE	The name for the partnership between Shanks Group plc and Scottish & Southern Energy plc.
A2A (formerly Ecodeco)	Italian company who research, design, construct, and manage plant and equipment for the disposal of waste.
Anaerobic Digestion (AD)	A series of biological processes in which micro-organisms break down biodegradable material in the absence of oxygen. One of the end products is biogas, which is combusted to generate electricity and heat.
Carter Towler	Carter Towler was created in 2008 by the merger of Towlers and Carter and Co, two of the best-known commercial surveying and property consultancy names in Leeds.
Compositional Analysis	Waste Composition Analysis is a study that provides essential information about the weight and type of each component waste material that is in any given waste stream. It firstly involves obtaining representative samples of these waste streams, then manually hand sorting into various pre-defined sort categories using the correct methodology, which are then weighed in each individual fractions in align with Waste Data Flow (WDF) municipal reporting each waste stream has its own European Waste Code (EWC).
Department for Environment, Food and Rural Affairs (DEFRA)	The UK government department responsible for policy and regulations on environmental, food and rural

	issues.
Environment Agency (EA)	An executive non-departmental public Body responsible to the Secretary of State for Environment, Food and Rural Affairs for issues affecting the environment.
FCC Environment	One of the UK's leading waste and resource management companies.
Ferrybridge Multifuel 1 (FM1)	Multifuel Energy Ltd. (MEL) operates a new £300 million multifuel plant on land owned by SSE at Ferrybridge 'C' Power Station near Knottingley in West Yorkshire. This project is called Ferrybridge Multifuel 1 (FM1)
Household Waste Recycling Centre (HWRC)	A civic amenity site (CA site) or household waste recycling centre (HWRC) is a facility where the public can dispose of household waste and also often containing recycling points.
Inter Authority Agreement (IAA)	The legal agreement between the three authorities that sets out how the contract will be governed.
Joint Waste Board (JWB)	The Statutory Committee comprising Portfolio Holders and Senior Officers with responsibility for waste.
Liaison Committee	Review the Waste Management contract in operation, seek out future development opportunities and to review the operational year identifying any learning points and advise the Joint Waste Board of any corrective action requirements
Mechanical Biological Treatment (MBT)	A type of waste processing facility that combines a sorting facility with a form of biological treatment such as composting or anaerobic digestion. MBT plants are designed to process mixed household waste as well as commercial and industrial wastes.
Private Finance Initiative (PFI)	Mechanism for creating "public-private partnerships" (PPPs) by funding public infrastructure projects with private capital.

Refuse Collection Vehicle (RCV)	The collection of rubbish and waste, usually in a rubbish or refuse truck, before final disposal.
Renewi	The new trading name for Shanks Waste Management.
Solid Recovered Fuel (SRF)	A fuel produced by shredding and dehydrating solid waste (MSW) with a waste converter technology.
SSE plc (formerly Scottish and Southern Energy plc)	A British energy company headquartered in Perth, Scotland.
Shanks Waste Management (SWM)	The UK arm of Shanks Group plc, a leading international sustainable waste management business.
Van Gansewinkel Group	Van Gansewinkel, which employs approximately 4,350 permanent employees, records net annual revenue of approximately € 1 billion. They are the market leader in the Benelux countries in waste management and recycling.
Waste Infrastructure Credits	Awarded by DEFRA to incentivise local authorities to develop infrastructure to treat waste as an alternate to landfill.
Waste Transfer Station (WTS)	Facilities where municipal solid waste is unloaded from collection vehicles and briefly held while it is reloaded onto larger long-distance transport vehicles for shipment to landfills or other treatment or disposal facilities.

Contact Name:- Lisbeth Baxter, BDR Manager, Tel. Ext 55989
email: Lisbeth.Baxter@rotherham.gov.uk