

## Case study 2 - Arjo Wiggins:

The entire paper contract of Arjo Wiggins was tendered in 2013 and the key to providing solutions was the ability to handle a wide range of waste paper grades efficiently and safely, with view to maximizing the values of each grade of paper generated at the mill. The tender then evolved to the handling of non-recyclable general waste encompassing almost 1000 tons of waste materials every month in total – this required innovative solutions for waste separation and eventual recycling and significant investment in waste handling machinery all throughout the facility.

Our solutions derived from a careful audit of the waste streams at the operations with the two main criteria of cost savings and landfill diversion central to our mindset. Our final proposals targeted the separation of waste at the point of generation, into added value categories that could allow Arjo to attain the best possible commercial returns possible.

## Waste disposal methods at Arjo before Highlander proposals:



We decided to supply various compactor machines and balers at the operation to tidy up the disposal method and to enhance the payloads of the materials collected. We also implemented a trailer collection service for items that could be efficiently and safely loaded by way of reels, pallets or cages – the main driver here was to reduce handling and increase collection efficiency by removing loads from the site of up to 27 tons per vehicle movement as opposed to the payloads of approximately 5 tons per vehicle movement when removing everything by way of bog standards waste containers.

Now, instead of up to 15 waste containers a day leaving the premises, we have reduced this to 5 containers a day and up to 4 trailers per day. During this time the operation has experienced significant growth which would have been very difficult to manage and would have been prohibitively expensive using the old waste handling systems employed. We estimate that waste costs have stayed the same as they were 18 months ago despite mill throughput and landfill tax increasing significantly during this period. In tandem, rebates for materials have increased by about 10% simply by implementing efficiency measures and by finding new markets for niche paper grades such as

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deep dyed coloured papers, redundant cardboard cores and heavily coated waste papers. We have also implemented services for security papers for destruction by shredding, polythene recycling, separation of wood / pallets for recycling & mobile compaction units around the site for general waste.

## Waste disposal methods at Arjo after Highlander proposals:



From the before and after images you can see that we now have systems in place that separate waste streams at source efficiently and in a manner that allows best value for these valuable commodities to be attained by Highlander and as such, passed onto Arjo Wiggins accordingly by way of improved materials rebates and reduced waste costs overall.

Highlander can provide a wide range of equipment and machinery for waste handling – this includes cages, stillages, plastic tubs and collection containers ranging from 30 yard<sup>3</sup> open top to 20 yard<sup>3</sup> closed containers, provided for a wide range of recyclable materials including cardboard, polythene, office papers, confidential waste and other materials for recycling.

We can also provide balers of all sizes and types and waste compactors with associated containers – please contact our commercial team at 01355 524 215 to discuss your waste recycling options.