

THE ASPEN GROUP'S WASTE REGISTER - 2014

Type of Waste	Waste Type	2014 Volume (tons)		Variance	Reason for variance above 10%	Waste disposal method	
General waste	Non- Hazardous	1 211.19	1 675	-28%	Decrease is largely due to initiatives in the South African Operations. 1) Increased recycling 2) Laboratory waste from NUTS was previously autoclaved and sent out with general waste. This waste is now sent to A-thermal	Landfill - Treated with lime.Ashblended incineration/thermal recycling	
Pharmaceutical: Schedule 1-4	Hazardous	1 154.05	1 207	-4%	Not applicable	Landfill - Treated with lime.Ashblended incineration/thermal recycling	
Pharmaceutical: Schedule 5-6	Hazardous	80.26	29	173%	There was an increase for both ABO and SA Ops 5&6 waste because more expired product and APIs were disposed	Thermal Desorption/incineration /thermal recycling	
General hazardous waste	Hazardous	2 264.23	5 262	-57%	Largely due to FCC - The discontinuation of Paracetamol production at FCC resulted reduced quantities of contaminated effluent that required disposal to landfill showing a decrease of 62% in hazardous waste to landfill	Landfill - Treated with Lime Ashblended Encapsulation Co-Disposal	
Biohazardous waste	Hazardous	25.51	19	37%	Laboratory waste from NUTS was previously autoclaved and sent out with general waste. This waste is now sent to Athermal. Mexico - extra production volumes	Incineration/thermal desorption	
Printed components	Non- Hazardous	49.31	49	1%	Not applicable	Landfill.Recycling/recla mation	

Fluorescent tubes	Hazardous	3.62	5	-24%	High wattage lights were replaced by energy efficient lights during the year and has resulted in the increase of disposal of fluorescent tubes	Landfill - Treated with Sodium Sulphide
Glass	Non- Hazardous	91.30	115	-21%	Increased drive towards waste recycling in SA Operations, FCC Australia - some waste reclassified from general to recyclable waste and sent for recycling Mexico: Ongoing commitment to recycling	Sold to recyclers
Plastic	Non- Hazardous	235.42	169	39%	Increased drive towards waste recycling in SA Operations, FCC Australia - some waste reclassified from general to recyclable waste and sent for recycling Mexico: Ongoing commitment to recycling	Sold to recyclers
Scrap metal/Aluminium	Non- Hazardous	183.40	72	155%	Increased drive towards waste recycling in SA Operations, FCC Australia - some waste reclassified from general to recyclable waste and sent for recycling Mexico: Ongoing commitment to recycling	Sold to recyclers
Paper and cardboard	Non- Hazardous	855.43	860	0%	Increased drive towards waste recycling in SA Operations, FCC Australia - some waste reclassified from general to recyclable waste and sent for recycling Mexico: Ongoing commitment to recycling	Sold to recyclers

Wood	Non- Hazardous	156.08	124	26%	Increased drive towards waste recycling in SA Operations, FCC Australia - some waste reclassified from general to recyclable waste and sent for recycling Mexico: Ongoing commitment to recycling	Sold to recyclers, incineration on land,thermal recycling
Sludge waste	Hazardous	332.29	228	46%	More accurate reporting from Australia	Sold to recyclers
Hormonal waste	Hazardous	68.66	135	-49%	Reduced production at SVP	Landfill
Ewaste	Non- Hazardous	0.77	-	-	Not reported in 2013	Sold to recyclers
Animal Feed	Non- Hazardous	656.91	-	-	Not reported in 2013	Sold to recyclers
Cans	Non- Hazardous	210.68	111	89%	Increased drive towards waste recycling at Nutritionals	Sold to recyclers
Drums, buckets and cannisters	Non- Hazardous	174.37	152	15%	Increased drive towards waste recycling in SA Operations, FCC Australia - some waste reclassified from general to recyclable waste and sent for recycling Mexico: Ongoing commitment to recycling	Sold to recyclers
Kitchen waste	Non- Hazardous	7.17	2	199%	Increased organic composting at ABO	Organic compost
Grease	Hazardous	37.40	6	523%	Deep cleaning of the Fat Trap at ABO Adhoc waste, the amount varies on an annual basis.	Biological treatment
Pharmaceutical waste ulterior unstated transposition of waste	Hazardous	358.44	373	-4%	Not applicable	Recycling
Construction and concrete waste	Hazardous	6.70	16	-58%	Reduced construction AB in 2014. 2013 figure was high due to construction at ABO	Recycling for other construction operations
Oil	Hazardous	0.72		0%	Not applicable	

Total waste generated		8 449	10 893			
Other Adhoc Recyclables	Non- Hazardous	6	-	0%	Not applicable	Sold to recyclers
Recovered solvents	Hazardous	279	285	-2%	Not applicable	Sold to recyclers

Total waste by waste type:

Hazardous waste	4 611	7 564
Non-hazardous waste	3 838	3 329

8 449

10 893