

EXHIBIT A-12
ORANGE COUNTY WASTE CHARACTERIZATION STUDY
COMPARISON OF MULTI-FAMILY WASTE COMPOSITIONS

Material Components	1995 Composition	2000 Composition	2005 Composition	2010 Composition
Paper				
Newspaper/Print	7.3%	5.6%	2.9%	2.5%
Glossy Magazines	5.0%	4.1%	3.8%	1.0%
Recyclable Corrugated Cardboard	7.2%	2.8%	1.6%	1.6%
Non-Recyclable Cardboard	N/A	2.0%	0.9%	0.4%
Phone Books	N/A	0.5%	0.4%	0.1%
Paperboard	N/A	4.6%	3.7%	3.0%
Other Books	N/A	0.4%	0.7%	<0.1%
White Ledger	N/A	3.8%	2.7%	0.8%
Mixed Office Paper	1.3%	5.5%	5.2%	2.4%
Other Paper (includes hardback books)	23.6%	6.8%	10.4%	8.8%
Total Paper	44.4%	36.2%	32.3%	20.5%
Plastics				
All Plastic Bottles	2.6%	4.3%	3.1%	2.9%
Film	5.5%	4.8%	5.7%	6.6%
All Cups & Tubs	1.0%	1.9%	1.0%	1.9%
All Other Plastic (includes styrofoam)	4.5%	4.0%	3.5%	5.6%
Total Plastics	13.6%	15.1%	13.3%	17.1%
Organics				
Food Waste	9.7%	21.2%	24.5%	22.5%
Textiles/Leather	3.3%	4.9%	8.8%	7.6%
Diapers	2.8%	2.5%	2.2%	5.3%
Other Organics (includes rubber)	7.8%	2.2%	0.3%	3.9%
Total Organics	23.6%	30.8%	35.7%	39.2%
Ferrous Metal				
Food Containers/Bi-Metal	2.6%	2.0%	1.2%	0.8%
Aerosols	N/A	<0.1%	0.1%	0.4%
Other Ferrous	1.9%	2.0%	0.3%	0.8%
Total Ferrous Metal	4.5%	4.1%	1.6%	2.0%
Non Ferrous Metal				
Aluminum Cans	1.0%	1.3%	0.7%	1.6%
Aluminum Foil	N/A	0.7%	0.6%	0.3%
Other Non-Ferrous	N/A	0.4%	0.4%	1.3%
Total Non Ferrous Metal	1.0%	2.4%	1.8%	3.3%
Glass				
All Bottles & Jars	5.8%	6.9%	8.2%	6.7%
Other Glass	<0.1%	1.2%	0.4%	<0.1%
Total Glass	5.8%	8.1%	8.6%	6.7%
Wood				
Pallets	N/A	0.2%	<0.1%	<0.1%
Lumber	0.6%	1.2%	0.2%	1.9%
Painted/Treated	0.8%	<0.1%	<0.1%	0.8%
Stumps/Heavy Sections	N/A	<0.1%	<0.1%	<0.1%
Total Wood	1.4%	1.4%	0.2%	2.7%
Inert				
Brick, concrete, dirt, asphalt, etc.	3.2%	0.5%	2.2%	2.1%
Yard Waste				
(includes grass, leaves, small branches)	2.2%	0.3%	2.3%	3.9%
Special Waste				
Lead-Acid Batteries	N/A	<0.1%	<0.1%	<0.1%
Dry Cell Batteries	N/A	0.3%	<0.1%	<0.1%
Oil Filters	N/A	<0.1%	<0.1%	<0.1%
Other Hazardous Waste	0.1%	<0.1%	1.0%	<0.1%
Infectious Waste	<0.1%	NA	<0.1%	<0.1%
Reusable Waste	N/A	<0.1%	<0.1%	0.4%
Total	0.1%	0.4%	1.1%	0.5%
Brown Goods				
Electronic Goods	N/A	0.8%	0.8%	2.1%
TOTALS	100%	100%	100%	100%