

BEACON FINAL EIR
 SANTA BARBARA AND VENTURA COUNTIES
 SINGLE-USE CARRIOUT BAG ORDINANCE

4/16/2013

LANDFILL AND RECYCLING IMPACTS

	LANDFILL		
	Pre-Ban Weight (tons)	Post Ban Weight (tons)	Ratio
Proposed Ban	3,876.46	16,168.37	4.17
Alternative #2	3,876.46	17,555.71	4.53
Alternative #3	3,876.46	7,531.76	1.94
Alternative #4	3,876.46	5,507.10	1.42
Alternative #5	3,876.46	10,292.28	2.66

RECYCLING		
Pre-Ban Weight (tons)	Post Ban Weight (tons)	Ratio
1,458.76	3,406.59	2.34
1,458.76	3,817.83	2.62
1,458.76	939.17	0.64
1,458.76	322.32	0.22
1,458.76	1760.25	1.21

ASSUMPTIONS:

In-Store Recycling Program shut down with Plastic Carryout Bag Ban (The ULS Report, "A qualitative Study of Grocery Bag Use in San Francisco")

Plastic Carryout Bag Recycling Rate of 2.9% based on CalRecycle "2009 Statewide Recycling Rate for Plastic Carryout Bags"

"Other Plastic" is by multiplying the weight of 2.9% of plastic carryout bags recycled by 11.6 (CalRecycle, 2009)

21% of all paper bags are recycled and 79% are disposed in the landfill. (Geen Cities MEA, 2010)

No reusable bags recycling facilities in Ventura and Santa Barbara Counties (Herrera Environmental Consultants, Inc. 29 January 2008.)

Alternative #1 represents the Pre-Ban condition of the Proposed Ban.

The Ratio represents a figure of merit comparing the Post Ban Condition to the Pre Ban Condition.

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Proposed Ordinance

Study Area Population	1,239,626
Study Area Households	413,209
Study Area Plastic Carry Out Bag Quantity	658,241,406
Post Ban Plastic Carry Out Bag Quantity (5%)	32,912,070
Paper Bags (30%)	197,472,422
Reusable bags (65%/52)	8,228,018
Plastic Carryout Bag Recycling Rate	2.9%
Paper Carryout Bag Recycling Rate	21.0%

Proposed Ordinance

NOTE: Numbers are raw and not adjusted for losses, weights, and other factors.

	Pre Ban				Post Ban			
	Quantity	Weight Per Bag	Weight (lbs.)	Weight (tons)	Quantity	Weight Per Bag	Weight (lbs.)	Weight (tons)
LandFill								
Plastic Carryout Bags	639,152,405	0.01213	7,752,918.68	3,876.46	32,912,070	0.01213	399,223.41	199.61
Paper Carryout Bags	0	0.14875			156,003,213	0.14875	23,205,477.97	11,602.74
Reusable Carryout Bags	0	0.42500			8,228,018	0.42500	3,496,907.47	1,748.45
Replacement Bags (40%)	0	0.01213			263,296,562	0.01213	3,193,787.30	1,596.89
"Other Plastic"	0	0.140708			14,507,641	0.140708	2,041,341.09	1,020.67
Total Weight Deposited in Landfill				3,876.46				16,168.37
Post Ban / Pre Ban Ratio								4.17
Recycling								
Plastic Carryout Bags	19,089,001	0.01213	231,549.58	115.77	0	0.01213	0	0.00
Paper Carryout Bags	0	0.14875	-	-	41,469,209	0.14875	6,168,544.78	3,084.27
Reusable Carryout Bags	0	0.42500	-	-	0	0.42500	-	-
Replacement Bags (40%)	0	0.01213	-	-	0	0.01213	-	-
"Other Plastic"	19,089,001	0.140708	2,685,975.12	1,342.99	4,581,360	0.140708	644,634.03	322.32
Total Weight of Material Recycled				1,458.76				3,406.59
Post Ban / Pre Ban Ratio								2.34

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Study Area Population	1,239,626
Study Area Households	413,209
Study Area Plastic Carry Out Bag Quantity	658,241,406
Post Ban Plastic Carry Out Bag Quantity (1%)	6,582,414
Paper Bags (34%)	223,802,078
Reusable bags (65%/52)	8,228,018
Plastic Carryout Bag Recycling Rate	2.9%
Paper Carryout Bag Recycling Rate	21.0%

ALTERNATIVE #2

Ban plastic carryout bags in all retail establishments

	Pre Ban				Post Ban			
	Quantity	Weight Per Bag	Weight (lbs.)	Weight (tons)	Quantity	Weight Per Bag	Weight (lbs.)	Weight (tons)
LandFill								
Plastic Carryout Bags	639,152,405	0.01213	7,752,918.68	3,876.46	6,582,414	0.01213	79,844.68	39.92
Paper Carryout Bags	0	0.14875			176,803,642	0.14875	26,299,541.70	13,149.77
Reusable Carryout Bags	0	0.42500			8,228,018	0.42500	3,496,907.47	1,748.45
Replacement Bags (40%)	0	0.01213			263,296,562	0.01213	3,193,787.30	1,596.89
"Other Plastic"	0	0.140708			14,507,641	0.140708	2,041,341.09	1,020.67
Total Weight Deposited in Landfill	3,876.46				17,555.71			
Post Ban / Pre Ban Ratio	4.53							
Recycling								
Plastic Carryout Bags	19,089,001	0.01213	231,549.58	115.77	0	0.01213	0	0.00
Paper Carryout Bags	0	0.14875	-	-	46,998,436	0.14875	6,991,017.41	3,495.51
Reusable Carryout Bags	0	0.42500	-	-	0	0.42500	0	0.00
Replacement Bags (40%)	0	0.01213	-	-	0	0.01213	0	0.00
"Other Plastic"	19,089,001	0.140708	2,685,975.12	1,342.99	4,581,360	0.140708	644,634.03	322.32
Total Weight of Material Recycled	1,458.76				3,817.83			
Post Ban / Pre Ban Ratio	2.62							

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SINGLE-USE CARRYOUT BAG ORDINANCE

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Study Area Population	1,239,626
Study Area Households	413,209
Study Area Plastic Carry Out Bag Quantity	658,241,406
Post Ban Plastic Carry Out Bag Quantity (5%)	32,912,070
Paper Bags (6%)	39,494,484
Reusable bags (89%/52)	11,266,055
Plastic Carryout Bag Recycling Rate	2.9%
Paper Carryout Bag Recycling Rate	21.0%

ALTERNATIVE #3

25 cents per paper bag

	Pre Ban				Post Ban			
	Quantity	Weight Per Bag	Weight (lbs.)	Weight (tons)	Quantity	Weight Per Bag	Weight (lbs.)	Weight (tons)
LandFill								
Plastic Carryout Bags	639,152,405	0.01213	7,752,918.68	3,876.46	32,912,070	0.01213	399,223.41	199.61
Paper Carryout Bags	0	0.14875			31,200,643	0.14875	4,641,095.59	2,320.55
Reusable Carryout Bags	0	0.42500			11,266,055	0.42500	4,788,073.30	2,394.04
Replacement Bags (40%)	0	0.01213			263,296,562	0.01213	3,193,787.30	1,596.89
"Other Plastic"	0	0.140708			14,507,641	0.140708	2,041,341.09	1,020.67
Total Weight Deposited in Landfill				3,876.46				7,531.76
Post Ban / Pre Ban Ratio								1.94
Recycling								
Plastic Carryout Bags	19,089,001	0.01213	231,549.58	115.77	0	0.01213	0	0.00
Paper Carryout Bags	0	0.14875	-	-	8,293,842	0.14875	1,233,708.96	616.85
Reusable Carryout Bags	0	0.42500	-	-	0	0.42500	0	0.00
Replacement Bags (40%)	0	0.01213	-	-	0	0.01213	0	0.00
"Other Plastic"	19,089,001	0.140708	2,685,975.12	1,342.99	4,581,360	0.140708	644,634.03	322.32
Total Weight of Material Recycled				1,458.76				939.17
Post Ban / Pre Ban Ratio								0.64

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Study Area Population	1,239,626
Study Area Households	413,209
Study Area Plastic Carry Out Bag Quantity	658,241,406
Post Ban Plastic Carry Out Bag Quantity (5%)	32,912,070
Paper Bags (0%)	-
Reusable bags (100%/52)	12,658,489
Plastic Carryout Bag Recycling Rate	2.9%
Paper Carryout Bag Recycling Rate	21.0%

ALTERNATIVE #4

Ban Plastic and Paper Carryout Bags

	Pre Ban				Post Ban			
	Quantity	Weight Per Bag	Weight (lbs.)	Weight (tons)	Quantity	Weight Per Bag	Weight (lbs.)	Weight (tons)
LandFill								
Plastic Carryout Bags	639,152,405	0.01213	7,752,918.68	3,876.46	32,912,070	0.01213	399,223.41	199.61
Paper Carryout Bags	0	0.14875			-	0.14875	-	-
Reusable Carryout Bags	0	0.42500			12,658,489	0.42500	5,379,857.65	2,689.93
Replacement Bags (40%)	0	0.01213			263,296,562	0.01213	3,193,787.30	1,596.89
"Other Plastic"		0.140708	0		14,507,641	0.140708	2,041,341.09	1,020.67
Total Weight Deposited in Landfill	3,876.46				5,507.10			
Post Ban / Pre Ban Ratio					1.42			
Recycling								
Plastic Carryout Bags	19,089,001	0.01213	231,549.58	115.77	0	0.01213	0	0.00
Paper Carryout Bags	0	0.14875	-	-	-	0.14875	-	0.00
Reusable Carryout Bags	0	0.42500	-	-	0	0.42500	0	0.00
Replacement Bags (40%)	0	0.01213	-	-	0	0.01213	0	0.00
"Other Plastic"	19,089,001	0.140708	2685975.121	1,342.99	4,581,360	0.140708	644,634.03	322.32
Total Weight of Material Recycled	1,458.76				322.32			
Post Ban / Pre Ban Ratio					0.22			

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Proposed Ordinance

Study Area Population	1,239,626
Study Area Households	413,209
Study Area Plastic Carry Out Bag Quantity	658,241,406
Post Ban Plastic Carry Out Bag Quantity (22%)	144,813,109
Paper Bags (14%)	92,153,797
Reusable bags (64%/52)	8,101,433
Plastic Carryout Bag Recycling Rate	2.9%
Paper Carryout Bag Recycling Rate	21.0%

ALTERNATIVE #5

Charge 10 cents for plastic and paper bags

	Pre Ban				Post Ban			
	Quantity	Weight Per Bag	Weight (lbs.)	Weight (tons)	Quantity	Weight Per Bag	Weight (lbs.)	Weight (tons)
LandFill								
Plastic Carryout Bags	639,152,405	0.01213	7,752,918.68	3,876.46	140,613,529	0.01213	1,705,642.11	852.82
Paper Carryout Bags	0	0.14875			72,801,500	0.14875	10,829,223.05	5,414.61
Reusable Carryout Bags	0	0.42500			8,101,433	0.42500	3,443,108.89	1,721.55
Replacement Bags (40%)	0	0.01213			207,051,151	0.01213	2,511,530.46	1,255.77
"Other Plastic"	0	0.140708			14,889,421	0.140708	2,095,060.59	1,047.53
Total Weight Deposited in Landfill				3,876.46				10,292.28
Post Ban / Pre Ban Ratio								2.66
Recycling								
Plastic Carryout Bags	19,089,001	0.01213	231,549.58	115.77	4,199,580	0.01213	50,940.91	25.47
Paper Carryout Bags	0	0.14875	-	-	19,352,297	0.14875	2,878,654.23	1439.33
Reusable Carryout Bags	0	0.42500	-	-	0	0.42500	0	0.00
Replacement Bags (40%)	0	0.01213	-	-	0	0.01213	0	0.00
"Other Plastic"	19,089,001	0.140708	2,685,975.12	1,342.99	4,199,580	0.140708	590,914.53	295.46
Total Weight of Material Recycled				1,458.76				1760.25
Post Ban / Pre Ban Ratio								1.21