

Appendix C

Detailed Waste Composition Spreadsheets

Monroe County

Municipal Solid Waste (MSW) Combined Composition Analysis and Projections

Material	Tons Generated	% of Total	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		YEAR 6		YEAR 7		YEAR 8		YEAR 9		YEAR 10			
			2010		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025	
			Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted
Newspaper	28,639	3.84%	27,869	97.31%	17,756	62.00%	18,616	65.00%	18,616	65.00%	20,048	70.00%	20,048	70.00%	20,048	70.00%	21,480	75.00%	21,480	75.00%	22,912	80.00%	25,775	90.00%
Corrugated Cardboard	74,262	9.95%	28,976	39.02%	20,051	27.00%	25,992	35.00%	29,705	40.00%	29,705	40.00%	33,418	45.00%	37,131	50.00%	44,557	60.00%	51,984	70.00%	59,410	80.00%	66,836	90.00%
Other Recyclable Paper																								
Paperboard	17,003	2.28%	2,737	16.10%	6,461	38.00%	6,801	40.00%	7,651	45.00%	8,501	50.00%	9,352	55.00%	10,202	60.00%	10,202	60.00%	11,052	65.00%	11,902	70.00%	11,902	70.00%
Office Paper	19,722	2.64%	8,836	44.80%	7,889	40.00%	7,889	40.00%	8,875	45.00%	9,861	50.00%	9,861	50.00%	11,833	60.00%	12,819	65.00%	13,805	70.00%	14,791	75.00%	16,763	85.00%
Junk Mail	15,638	2.10%	651	4.16%	5,786	37.00%	7,037	45.00%	7,037	45.00%	7,819	50.00%	7,819	50.00%	8,601	55.00%	9,383	60.00%	10,165	65.00%	10,165	65.00%	10,947	70.00%
Other Commercial Printing	15,916	2.13%	8,944	56.20%	6,367	40.00%	7,162	45.00%	7,958	50.00%	8,754	55.00%	9,550	60.00%	9,550	60.00%	10,346	65.00%	11,142	70.00%	11,937	75.00%	12,733	80.00%
Magazines	7,130	0.96%	466	6.54%	2,852	40.00%	2,852	40.00%	2,852	40.00%	2,852	40.00%	3,565	50.00%	3,565	50.00%	3,922	55.00%	4,278	60.00%	4,635	65.00%	4,991	70.00%
Books	3,260	0.44%	15	0.45%	391	12.00%	489	15.00%	489	15.00%	652	20.00%	815	25.00%	978	30.00%	1,141	35.00%	1,141	35.00%	1,630	50.00%	1,956	60.00%
Bags	2,818	0.38%	7	0.27%	282	10.00%	423	15.00%	564	20.00%	704	25.00%	845	30.00%	986	35.00%	1,127	40.00%	1,268	45.00%	1,409	50.00%	1,691	60.00%
Phone Books	2,137	0.29%	13	0.59%	598	28.00%	748	35.00%	855	40.00%	962	45.00%	1,069	50.00%	1,175	55.00%	1,282	60.00%	1,389	65.00%	1,496	70.00%	1,817	85.00%
Poly-Coated	1,618	0.22%	99	6.12%	243	15.00%	243	15.00%	243	15.00%	243	15.00%	405	25.00%	405	25.00%	566	35.00%	566	35.00%	647	40.00%	647	40.00%
Other Recyclable Paper (Total)	85,241	11.42%	21,768	25.54%	30,868	36.21%	33,644	39.47%	36,523	42.85%	40,348	47.33%	43,280	50.77%	47,294	55.48%	50,787	59.58%	54,805	64.29%	58,612	68.76%	63,446	74.43%
Other Compostable Paper	48,750	6.53%	0	0.00%	0	0.00%	1,950	4.00%	3,900	8.00%	5,850	12.00%	7,800	16.00%	9,750	20.00%	11,700	24.00%	13,650	28.00%	14,625	30.00%	19,500	40.00%
Total Paper	236,893	31.75%	78,613	33.19%	68,676	28.99%	80,201	33.86%	88,744	37.46%	95,951	40.50%	104,545	44.13%	114,223	48.22%	128,524	54.25%	141,919	59.91%	155,558	65.67%	175,558	74.11%
Ferrous/Aluminum Containers																								
Ferrous Containers	7,671	1.03%	585	7.62%	1,534	20.00%	1,534	20.00%	1,918	25.00%	2,301	30.00%	2,685	35.00%	3,068	40.00%	3,452	45.00%	3,835	50.00%	4,603	60.00%	5,370	70.00%
Aluminum Containers	3,484	0.47%	2,314	66.41%	1,916	55.00%	2,090	60.00%	2,090	60.00%	2,090	60.00%	2,090	60.00%	2,439	70.00%	2,439	70.00%	2,787	80.00%	2,787	80.00%	3,135	90.00%
Ferrous/Aluminum Containers (Total)	11,155	1.49%	2,898	25.98%	3,450	30.93%	3,624	32.49%	4,008	35.93%	4,391	39.77%	4,775	42.81%	5,507	49.37%	5,890	52.81%	6,622	59.37%	7,389	66.25%	8,505	76.25%
Other Ferrous Metals	36,022	4.83%	238	0.66%	10,806	30.00%	10,806	30.00%	12,608	35.00%	14,409	40.00%	16,210	45.00%	21,613	60.00%	22,333	62.00%	23,054	64.00%	23,774	66.00%	25,215	70.00%
Other Non-Ferrous Metals																								
Other aluminum	1,833	0.25%	25	1.35%	73	4.00%	220	12.00%	367	20.00%	458	25.00%	550	30.00%	733	40.00%	917	50.00%	1,100	60.00%	1,283	70.00%	1,467	80.00%
Automotive batteries	3,487	0.47%	3,475	99.66%	3,487	100.00%	3,487	100.00%	3,487	100.00%	3,487	100.00%	3,487	100.00%	3,487	100.00%	3,487	100.00%	3,487	100.00%	3,487	100.00%	3,487	100.00%
Other non-aluminum	2,515	0.34%	0	0.00%	101	4.00%	302	12.00%	503	20.00%	704	28.00%	905	36.00%	1,106	44.00%	1,308	52.00%	1,509	60.00%	1,710	68.00%	2,012	80.00%
Other Non-Ferrous Metals (Total)	7,835	1.05%	3,500	44.67%	3,661	46.72%	4,009	51.16%	4,356	55.60%	4,649	59.34%	4,942	63.08%	5,327	67.99%	5,711	72.89%	6,096	77.80%	6,480	82.71%	6,965	88.90%
Total Metals	55,011	7.37%	6,636	12.06%	17,917	32.57%	18,439	33.52%	20,972	38.12%	23,449	42.63%	25,927	47.13%	32,446	58.98%	33,935	61.69%	35,772	65.03%	37,644	68.43%	40,685	73.96%
PET Containers	6,950	0.93%	3,596	51.74%	3,614	52.00%	3,823	55.00%	3,823	55.00%	4,170	60.00%	4,170	60.00%	4,518	65.00%	4,518	65.00%	4,865	70.00%	5,213	75.00%	5,908	85.00%
HDPE Containers	6,171	0.83%	1,979	32.06%	2,469	40.00%	2,777	45.00%	2,777	45.00%	3,086	50.00%	3,394	55.00%	3,394	55.00%	3,703	60.00%	3,703	60.00%	4,011	65.00%	4,629	75.00%
Other Plastic (3-7) Containers	1,476	0.20%	1,070	72.47%	517	35.00%	517	35.00%	517	35.00%	591	40.00%	591	40.00%	591	40.00%	591	40.00%	664	45.00%	664	45.00%	738	50.00%
Film Plastic	42,450	5.69%	9	0.02%	425	1.00%	1,485	3.50%	2,545	6.00%	3,606	8.49%	4,666	10.99%	5,726	13.49%	6,787	15.99%	7,847	18.49%	8,907	20.98%	10,613	25.00%
Other Plastic																								
Durables	23,409	3.14%	1,324	5.66%	0	0.00%	219	0.93%	437	1.87%	656	2.80%	875	3.74%	1,094	4.67%	1,312	5.61%	1,531	6.54%	1,750	7.48%	3,511	15.00%
Non-Durables	12,941	1.73%	0	0.00%	0	0.00%	259	2.00%	518	4.00%	776	6.00%	1,035	8.00%	1,294	10.00%	1,553	12.00%	1,812	14.00%	2,071	16.00%	2,588	20.00%
Packaging	9,533	1.28%	0	0.00%	0	0.00%	238	2.50%	477	5.00%	715	7.50%	953	10.00%	1,192	12.50%	1,430	15.00%	1,668	17.50%	1,907	20.00%	2,383	25.00%
Other Plastic (Total)	45,883	6.15%	1,324	2.89%	0	0.00%	716	1.56%	1,432	3.12%	2,148	4.68%	2,864	6.24%	3,579	7.80%	4,295	9.36%	5,011	10.92%	5,727	12.48%	8,483	18.49%
Total Plastics	102,932	13.80%	7,977	7.75%	7,024	6.82%	9,317	9.05%	11,094	10.78%	13,600	13.21%	15,685	15.24%	17,808	17.30%	19,893	19.33%	22,091	21.46%	24,523	23.82%	30,370	29.50%
Glass Containers	29,242	3.92%	16,517	56.48%	14,621	50.00%	17,545	60.00%	17,545	60.00%	17,545	60.00%	19,007	65.00%	19,007	65.00%	20,469	70.00%	21,932	75.00%	23,394	80.00%	24,856	85.00%
Other Glass	2,733	0.37%	0	0.00%	0	0.00%	41	1.50%	82	3.00%	123	4.50%	164	6.00%	205	7.50%	246	9.00%	287	10.50%	328	12.00%	410	15.00%
Total Glass	31,975	4.29%	16,517	51.66%	14,621	45.73%	17,586	55.00%	17,627	55.13%	17,668	55.26%	19,171	59.96%	19,212	60.08%	20,715	64.79%	22,219	69.49%	23,722	74.19%	25,266	79.02%
Food Scraps	119,270	15.98%	0	0.00%	17,891	15.00%	17,891	15.00%	29,818	25.00%	29,818	25.00%	35,781	30.00%	35,781	30.00%	35,781	30.00%	41,745	35.00%	47,708	40.00%	59,635	50.00%
Yard Trimmings	58,232	7.80%	11,141	19.13%	14,558	25.00%	20,381	35.00%	23,293	40.00%	29,116	50.00%	32,027	55.00%	34,939	60.00%	37,851	65.00%	40,762	70.00%	43,674	75.00%	46,585	80.00%
Total Organics	177,502	23.79%	11,141	6.28%	32,448	18.28%	38,272	21.56%	53,110	29.92%	58,933	33.20%	67,808	38.20%	70,720	39.84%	73,632	41.48%	82,507	46.48%	91,382	51.48%	106,220	59.84%
Clothing Footwear, Towels, Sheets	28,481	3.82%	0	0.00%	712	2.50%	2,421	8.50%	4,130	14.50%	5,839	20.50%	7,547	26.50%	9,256	32.50%	10,965	38.50%	12,674	44.50%	14,383	50.50%	17,089	60.00%
Carpet	11,073	1.48%	0	0.00%	0	0.00%	277	2.50%	554	5.00%	830	7.50%	1,107	10.00%	1,384	12.50%	1,661	15.00%	1,938	17.50%	2,215	20.00%	2,768	25.00%
Total Textiles	39,554	5.30%	0	0.00%	712	1.80%	2,698	6.82%																

Monroe County

Municipal Solid Waste (MSW) Combined Composition Analysis and Projections

Material	Tons Generated	% of Total	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		YEAR 6		YEAR 7		YEAR 8		YEAR 9		YEAR 10			
			2010		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025	
			Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted
Total Wood	25,182	3.37%	387	1.54%	630	2.50%	1,598	6.35%	2,567	10.19%	3,535	14.04%	4,504	17.89%	5,472	21.73%	6,441	25.58%	7,410	29.42%	8,378	33.27%	10,073	40.00%
C&D Materials	28,086	3.76%	0	0.00%	0	0.00%	1,123	4.00%	2,247	8.00%	3,370	12.00%	4,494	16.00%	5,617	20.00%	6,741	24.00%	7,864	28.00%	8,988	32.00%	11,235	40.00%
Other Durables	12,025	1.61%	0	0.00%	0	0.00%	240	2.00%	481	4.00%	721	6.00%	962	8.00%	1,202	10.00%	1,443	12.00%	1,683	14.00%	1,924	16.00%	2,405	20.00%
Diapers	12,659	1.70%	0	0.00%	0	0.00%	253	2.00%	506	4.00%	760	6.00%	1,013	8.00%	1,266	10.00%	1,519	12.00%	1,772	14.00%	2,025	16.00%	2,532	20.00%
Electronics	11,431	1.53%	61	0.53%	171	1.50%	2,286	20.00%	3,429	30.00%	4,572	40.00%	5,715	50.00%	6,858	60.00%	8,001	70.00%	9,144	80.00%	9,716	85.00%	10,859	95.00%
Tires	9,417	1.26%	3,650	38.76%	3,296	35.00%	4,238	45.00%	4,238	45.00%	4,709	50.00%	4,709	50.00%	5,650	60.00%	5,650	60.00%	6,592	70.00%	7,534	80.00%	8,476	90.00%
HHW	2,321	0.31%	0	0.00%	580	25.00%	696	30.00%	696	30.00%	696	30.00%	812	35.00%	812	35.00%	812	35.00%	929	40.00%	929	40.00%	929	40.00%
Fines	1,160	0.16%	0	0.00%	0	0.00%	58	5.00%	58	5.00%	116	10.00%	174	15.00%	232	20.00%	232	20.00%	232	20.00%	232	20.00%	232	20.00%
Total Miscellaneous	77,099	10.33%	3,711	4.81%	4,048	5.25%	8,895	11.54%	11,656	15.12%	14,945	19.38%	17,879	23.19%	21,639	28.07%	24,399	31.65%	28,217	36.60%	31,347	40.66%	36,666	47.56%
Total	746,148	100.00%	123,177	16.51%	146,076	19.58%	177,007	23.72%	210,452	28.21%	234,750	31.46%	264,174	35.40%	292,162	39.16%	320,165	42.91%	354,745	47.54%	389,151	52.15%	444,695	59.60%
Population (Actual & Projected ⁽²⁾)	744,344	(2010)	744,344		744,160		743,857		743,814		743,771		743,727		743,684		742,893		742,102		741,310		740,519	
MSW Generated (tons)	746,148		746,148		693,929		689,927		686,540		682,781		679,395		676,009		671,946		667,891		663,843		659,802	
MSW Diverted (tons)			123,177		146,076		177,007		210,452		234,750		264,174		292,162		320,165		354,745		389,151		444,695	
MSW Disposed (tons)			622,971		547,853		512,921		476,088		448,031		415,221		383,847		351,781		313,147		274,692		215,107	
Per Capita MSW Generated (lbs)	2,005		1,874		1,865		1,855		1,846		1,836		1,827		1,818		1,809		1,800		1,791		1,782	
Per Capita MSW Diverted (lbs)			331		393		476		566		631		710		786		862		956		1,050		1,201	
Per Capita/year MSW Disposed (lbs)			1,674		1,472		1,379		1,280		1,205		1,117		1,032		947		844		741		581	
Per Capita/day MSW Disposed (lbs)			4.6		4.0		3.8		3.5		3.3		3.1		2.8		2.6		2.3		2.0		1.6	

Notes:

2. Based on Cornell Program on Applied Demographics 1990 - 2040. <http://pad.human.cornell.edu/counties/projections.cfm>

Monroe County

Construction and Demolition (C&D) Debris Combined Composition Analysis and Projections

Material	Tons Generated	% of Total	YEAR 1		YEAR 2		YEAR 3		YEAR 4		YEAR 5		YEAR 6		YEAR 7		YEAR 8		YEAR 9		YEAR 10			
			2010		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025	
			Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted	Tons Diverted	% Diverted
Concrete/Asphalt/Rock/Brick	165,724	35.39%	203,311	122.68%	74,576	45.00%	140,866	85.00%	140,866	85.00%	140,866	85.00%	149,152	90.00%	149,152	90.00%	149,152	90.00%	149,152	90.00%	149,152	90.00%	149,152	90.00%
Wood	69,289	14.80%	26,456	38.18%	27,716	40.00%	27,716	40.00%	27,716	40.00%	27,716	40.00%	31,180	45.00%	31,180	45.00%	31,180	45.00%	34,645	50.00%	34,645	50.00%	34,645	50.00%
Roofing	23,078	4.93%	6,922	29.99%	6,929	10.00%	10,393	15.00%	10,393	15.00%	10,393	15.00%	17,322	25.00%	17,322	25.00%	17,322	25.00%	20,787	30.00%	20,787	30.00%	20,787	30.00%
Drywall	11,885	2.54%	0	0.00%	1,188	10.00%	1,783	15.00%	1,783	15.00%	1,783	15.00%	2,377	20.00%	2,377	20.00%	2,377	20.00%	2,377	20.00%	2,971	25.00%	2,971	25.00%
Soil/Gravel	127,436	27.22%	12,458	9.78%	25,487	20.00%	31,859	25.00%	31,859	25.00%	38,231	30.00%	44,602	35.00%	44,602	35.00%	44,602	35.00%	44,602	35.00%	50,974	40.00%	50,974	40.00%
Metal	27,678	5.91%	560	2.02%	13,839	50.00%	13,839	50.00%	15,223	55.00%	15,223	55.00%	16,607	60.00%	16,607	60.00%	17,991	65.00%	19,374	70.00%	20,758	75.00%	22,142	80.00%
Plastic	1,857	0.40%	0	0.00%	186	10.00%	186	10.00%	186	10.00%	279	15.00%	279	15.00%	279	15.00%	279	15.00%	371	20.00%	371	20.00%	371	20.00%
Corrugated/Paper	9,362	2.00%	0	0.00%	1,404	15.00%	1,872	20.00%	1,872	20.00%	2,340	25.00%	2,340	25.00%	2,809	30.00%	2,809	30.00%	2,809	30.00%	3,277	35.00%	3,745	40.00%
Other	31,944	6.82%	0	0.00%	3,194	10.00%	3,674	11.50%	4,153	13.00%	4,632	14.50%	5,111	16.00%	5,590	17.50%	6,069	19.00%	6,549	20.50%	7,028	22.00%	7,492	15.00%
Total	468,253	100.00%	249,707	53.33%	154,519	33.00%	232,187	49.59%	234,050	49.98%	241,462	51.57%	268,971	57.44%	269,918	57.64%	271,781	58.04%	280,666	59.94%	289,963	61.92%	289,579	61.84%