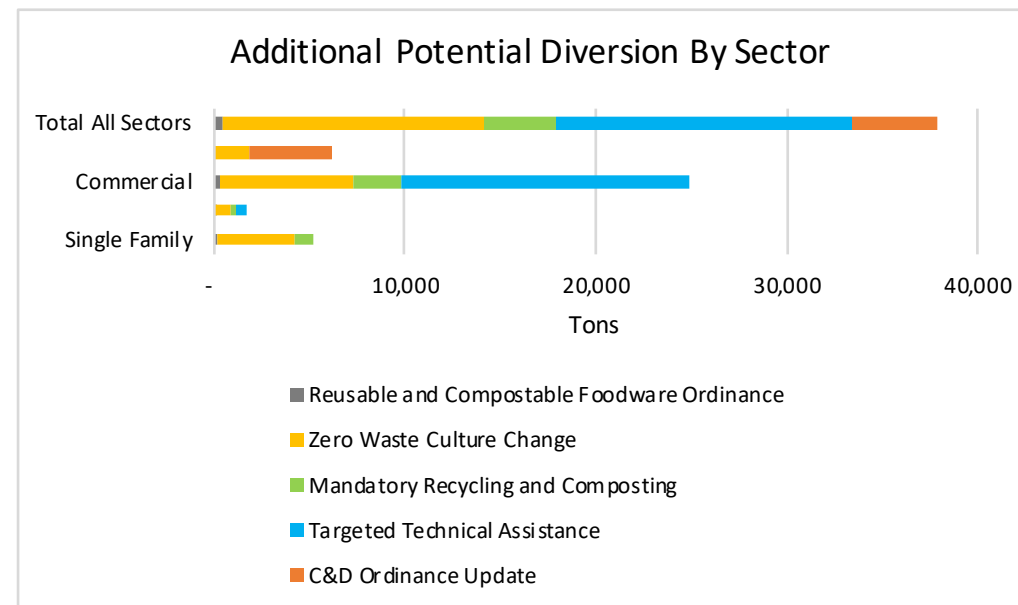
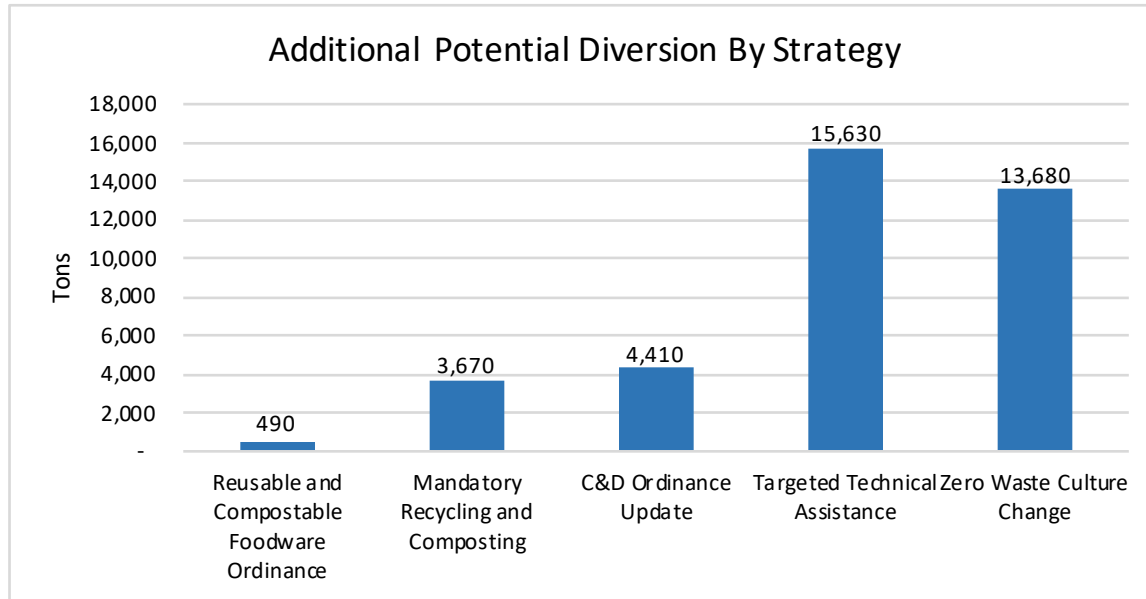


Recommended Zero Waste Strategy	Additional Potential Diversion				
	Single Family	Multi-Family	Commercial	Self-Haul	Total All Sectors
Reusable and Compostable Foodware Ordinance	150	30	310	N/A	490
Mandatory Recycling and Composting	950	280	2,440	N/A	3,670
C&D Ordinance Update	N/A	N/A	N/A	4,410	4,410
Targeted Technical Assistance	N/A	560	15,070	N/A	15,630
Zero Waste Culture Change	4,090	800	7,020	1,770	13,680
TOTAL	5,190	1,670	24,840	6,180	37,880



Residential - Single Family											
Material	Garbage		Reusable and Compostable Foodware Ordinance		Zero Waste Culture Change		Mandatory Recycling and Composting		Total		
	Est. %	Est. Tons	Capture Rate	Tons	Capture Rate	Tons	Capture Rate	Tons	Capture Rate	Tons	
Paper	18.4%	5,982									
Corrugated Cardboard and Kraft	2.1%	676	0%	-	10%	68	5%	34	15%	101	
Newspaper	1.2%	381	0%	-	10%	38	5%	19	15%	57	
Other Recyclable Paper	5.7%	1,850	0%	-	10%	185	5%	93	15%	278	
Polycoated Paper	0.2%	71	0%	-	10%	7	0%	-	10%	7	
Compostable Paper	8.5%	2,780	0%	-	10%	278	5%	139	15%	417	
Non-Recoverable Paper	0.7%	225	0%	-	10%	22	0%	-	10%	22	
Plastic	13.3%	4,342									
#1 & #2 Plastic Containers	2.0%	653	5%	33	10%	65	5%	33	20%	131	
Other Recyclable Plastics	3.5%	1,141	5%	57	10%	114	5%	57	20%	228	
Recoverable Film	1.3%	413	0%	-	10%	41	5%	21	15%	62	
Non-recoverable Film	4.8%	1,556	0%	-	10%	156	0%	-	10%	156	
Non-recoverable Plastics	1.8%	579	10%	58	15%	87	0%	-	25%	145	
Glass	2.8%	913									
Glass Containers	2.6%	833	0%	-	10%	83	5%	42	15%	125	
Non-recoverable Glass	0.2%	80	0%	-	10%	8	0%	-	10%	8	
Metal	3.1%	1,013									
Tin/Steel Cans	0.8%	270	0%	-	10%	27	5%	14	15%	41	
Aluminum Cans & Foil	0.3%	107	0%	-	10%	11	5%	5	15%	16	
Other Recoverable Metal	1.4%	450	0%	-	10%	45	5%	23	15%	68	
Non-recoverable Metal	0.6%	186	0%	-	10%	19	0%	-	10%	19	
Organics	42.5%	13,854									
Food	24.1%	7,840	0%	-	20%	1,568	5%	392	25%	1,960	
Yard Waste	4.7%	1,545	0%	-	10%	154	5%	77	15%	232	
Textiles	4.0%	1,314	0%	-	10%	131	0%	-	10%	131	
Non-recoverable Organics	9.7%	3,155	0%	-	10%	316	0%	-	10%	316	
Construction & Demolition	11.4%	3,719									
Recoverable Wood	1.8%	577	0%	-	10%	58	0%	-	10%	58	
Carpet	1.0%	328	0%	-	10%	33	0%	-	10%	33	
Recoverable C&D	5.6%	1,812	0%	-	10%	181	0%	-	10%	181	
Non-recoverable C&D	3.1%	1,002	0%	-	10%	100	0%	-	10%	100	
Other Materials	8.4%	2,747									
Household Hazardous Waste	0.4%	117	0%	-	10%	12	0%	-	10%	12	
Electronic Waste	0.4%	121	0%	-	10%	12	0%	-	10%	12	
Tires	0.1%	16	0%	-	10%	2	0%	-	10%	2	
Bulky Items	0.9%	303	0%	-	15%	45	0%	-	15%	45	
Non-recoverable Other	6.7%	2,190	0%	-	10%	219	0%	-	10%	219	
Totals	0.0%	100.0%	32,570	0%	148	13%	4,085	3%	947	16%	5,180

Residential - Multifamily													
Material	Garbage		Reusable and Compostable Foodware Ordinance		Zero Waste Culture Change		Mandatory Recycling and Composting		Targeted Technical Assistance		Total		
	Est. %	Est. Tons	Capture Rate	Tons	Capture Rate	Tons	Capture Rate	Tons	Capture Rate	Tons	Capture Rate	Tons	
Paper	22.1%	1,396											
Corrugated Cardboard and Kraft	2.9%	185	0%	-	10%	18.54	7%	12.98	10%	18.54	27%	50	
Newspaper	1.8%	116	0%	-	10%	11.64	7%	8.15	10%	11.64	27%	31	
Other Recyclable Paper	9.1%	576	0%	-	10%	57.55	7%	40.29	10%	57.55	27%	155	
Polycoated Paper	0.2%	15	0%	-	10%	1.51	0%	-	10%	1.51	20%	3	
Compostable Paper	6.8%	429	0%	-	10%	42.92	7%	30.04	10%	42.92	27%	116	
Non-Recoverable Paper	1.2%	74	0%	-	10%	7.43	0%	-	10%	7.43	20%	15	
Plastic	13.7%	865											
#1 & #2 Plastic Containers	2.8%	179	5%	9	10%	17.88	7%	12.52	10%	17.88	32%	57	
Other Recyclable Plastics	3.5%	219	5%	11	10%	21.86	7%	15.30	10%	21.86	32%	70	
Recoverable Film	1.1%	72	0%	-	10%	7.17	7%	5.02	10%	7.17	27%	19	
Non-recoverable Film	4.1%	258	0%	-	10%	25.78	0%	-	10%	25.78	20%	52	
Non-recoverable Plastics	2.2%	138	10%	14	15%	20.73	0%	-	10%	13.82	35%	48	
Glass	4.6%	288											
Glass Containers	4.0%	253	0%	-	10%	25.30	7%	17.71	10%	25.30	27%	68	
Non-recoverable Glass	0.6%	35	0%	-	10%	3.52	0%	-	10%	3.52	20%	7	
Metal	4.2%	267											
Tin/Steel Cans	1.1%	67	0%	-	10%	6.72	7%	4.70	10%	6.72	27%	18	
Aluminum Cans & Foil	0.4%	28	0%	-	10%	2.78	7%	1.95	10%	2.78	27%	8	
Other Recoverable Metal	1.7%	108	0%	-	10%	10.83	7%	7.58	10%	10.83	27%	29	
Non-recoverable Metal	1.0%	64	0%	-	10%	6.42	0%	-	10%	6.42	20%	13	
Organics	41.7%	2,633											
Food	25.5%	1,608	0%	-	20%	321.68	7%	112.59	10%	160.84	37%	595	
Yard Waste	2.4%	154	0%	-	10%	15.39	7%	10.77	10%	15.39	27%	42	
Textiles	5.1%	322	0%	-	10%	32.23	0%	-	10%	32.23	20%	64	
Non-recoverable Organics	8.7%	549	0%	-	10%	54.85	0%	-	10%	54.85	20%	110	
Construction & Demolition	6.3%	399											
Recoverable Wood	1.6%	103	0%	-	10%	10.30	0%	-	0%	-	10%	10	
Carpet	0.3%	17	0%	-	10%	1.67	0%	-	0%	-	10%	2	
Recoverable C&D	1.7%	109	0%	-	10%	10.92	0%	-	0%	-	10%	11	
Non-recoverable C&D	2.7%	170	0%	-	10%	17.03	0%	-	0%	-	10%	17	
Other Materials	7.3%	461											
Household Hazardous Waste	0.2%	12	0%	-	10%	1.17	0%	-	10%	1.17	20%	2	
Electronic Waste	0.7%	45	0%	-	10%	4.47	0%	-	10%	4.47	20%	9	
Tires	0.0%	3	0%	-	10%	0.27	0%	-	0%	-	10%	0	
Bulky Items	1.8%	113	0%	-	15%	17.01	0%	-	10%	11.34	25%	28	
Non-recoverable Other	4.6%	288	0%	-	10%	28.84	0%	-	0%	-	10%	29	
Totals	0.0%	100.0%	6,310	1%	34	13%	804	4%	280	9%	562	27%	1,680

Commercial													
Material	Garbage		Reusable and Compostable Foodware Ordinance		Zero Waste Culture Change		Mandatory Recycling and Composting		Targeted Technical Assistance		Total		
	Est. %	Est. Tons	Capture Rate	Tons	Capture Rate	Tons	Capture Rate	Tons	Capture Rate	Tons	Capture Rate	Tons	
Paper	24.4%	13,717											
Corrugated Cardboard and Kraft	3.9%	2,167	0%	-	10%	217	7%	152	30%	650	47%	1,019	
Newspaper	1.2%	647	0%	-	10%	65	7%	45	30%	194	47%	304	
Other Recyclable Paper	7.4%	4,178	0%	-	10%	418	7%	292	30%	1,253	47%	1,964	
Polycoated Paper	0.2%	117	0%	-	10%	12	0%	-	30%	35	40%	47	
Compostable Paper	10.2%	5,734	0%	-	10%	573	7%	401	30%	1,720	47%	2,695	
Non-Recoverable Paper	1.6%	874	0%	-	10%	87	0%	-	30%	262	40%	349	
Plastic	15.5%	8,697											
#1 & #2 Plastic Containers	1.9%	1,078	5%	54	10%	108	7%	75	30%	324	52%	561	
Other Recyclable Plastics	3.0%	1,660	5%	83	10%	166	7%	116	30%	498	52%	863	
Recoverable Film	1.7%	947	0%	-	10%	95	7%	66	30%	284	47%	445	
Non-recoverable Film	5.8%	3,234	0%	-	10%	323	0%	-	30%	970	40%	1,294	
Non-recoverable Plastics	3.2%	1,777	10%	178	15%	267	0%	-	30%	533	55%	977	
Glass	2.8%	1,551											
Glass Containers	2.2%	1,220	0%	-	10%	122	7%	85	30%	366	47%	573	
Non-recoverable Glass	0.6%	331	0%	-	10%	33	0%	-	30%	99	40%	132	
Metal	3.8%	2,117											
Tin/Steel Cans	0.6%	339	0%	-	10%	34	7%	24	30%	102	47%	159	
Aluminum Cans & Foil	0.4%	231	0%	-	10%	23	7%	16	30%	69	47%	108	
Other Recoverable Metal	1.7%	957	0%	-	10%	96	7%	67	30%	287	47%	450	
Non-recoverable Metal	1.1%	590	0%	-	10%	59	0%	-	30%	177	40%	236	
Organics	36.0%	20,188											
Food	23.2%	13,002	0%	-	20%	2,600	7%	910	30%	3,901	57%	7,411	
Yard Waste	4.9%	2,759	0%	-	10%	276	7%	193	30%	828	47%	1,297	
Textiles	3.5%	1,939	0%	-	10%	194	0%	-	30%	582	40%	775	
Non-recoverable Organics	4.4%	2,488	0%	-	10%	249	0%	-	30%	746	40%	995	
Construction & Demolition	12.5%	7,007											
Recoverable Wood	4.2%	2,345	0%	-	10%	235	0%	-	10%	235	20%	469	
Carpet	0.7%	386	0%	-	10%	39	0%	-	10%	39	20%	77	
Recoverable C&D	3.2%	1,821	0%	-	10%	182	0%	-	10%	182	20%	364	
Non-recoverable C&D	4.4%	2,455	0%	-	10%	245	0%	-	10%	245	20%	491	
Other Materials	5.1%	2,873											
Household Hazardous Waste	0.7%	371	0%	-	10%	37	0%	-	30%	111	40%	149	
Electronic Waste	0.6%	341	0%	-	10%	34	0%	-	30%	102	40%	136	
Tires	0.2%	89	0%	-	10%	9	0%	-	10%	9	20%	18	
Bulky Items	0.5%	274	0%	-	15%	41	0%	-	30%	82	45%	123	
Non-recoverable Other	3.2%	1,797	0%	-	10%	180	0%	-	10%	180	20%	359	
Totals	0.0%	100.0%	56,150	1%	315	12%	7,018	4%	2,444	27%	15,066	44%	24,843

Self-haul									
Material	Garbage			C&D Ordinance Update		Zero Waste Culture Change		Total	
	Est. %	Est. Tons		Capture Rate	Tons	Capture Rate	Tons	Capture Rate	Tons
Paper	9.5%		1,698						
Corrugated Cardboard and Kraft	2.0%	350		45%	157	10%	35	55%	192
Newspaper	0.4%	72		0%	-	10%	7	10%	7
Other Recyclable Paper	4.9%	881		0%	-	10%	88	10%	88
Polycoated Paper	0.0%	9		0%	-	10%	1	10%	1
Compostable Paper	1.9%	336		0%	-	10%	34	10%	34
Non-Recoverable Paper	0.3%	51		0%	-	10%	5	10%	5
Plastic	6.3%		1,126		-		-	0%	-
#1 & #2 Plastic Containers	0.6%	106		0%	-	10%	11	10%	11
Other Recyclable Plastics	1.9%	336		45%	151	10%	34	55%	185
Recoverable Film	1.0%	173		0%	-	10%	17	10%	17
Non-recoverable Film	0.9%	168		0%	-	10%	17	10%	17
Non-recoverable Plastics	1.9%	343		0%	-	10%	34	10%	34
Glass	2.1%		372		-		-	0%	-
Glass Containers	0.8%	139		0%	-	10%	14	10%	14
Non-recoverable Glass	1.3%	233		0%	-	10%	23	10%	23
Metal	3.2%		574		-		-	0%	-
Tin/Steel Cans	0.3%	60		0%	-	10%	6	10%	6
Aluminum Cans & Foil	0.1%	17		0%	-	10%	2	10%	2
Other Recoverable Metal	2.1%	372		45%	167	10%	37	55%	205
Non-recoverable Metal	0.7%	124		0%	-	10%	12	10%	12
Organics	18.1%		3,241		-		-	0%	-
Food	3.5%	631		0%	-	10%	63	10%	63
Yard Waste	6.3%	1,118		45%	503	10%	112	55%	615
Textiles	4.2%	759		0%	-	10%	76	10%	76
Non-recoverable Organics	4.1%	732		0%	-	0%	-	0%	-
Construction & Demolition	51.0%		9,100		-		-	0%	-
Recoverable Wood	15.8%	2,815		45%	1,267	10%	281	55%	1,548
Carpet	5.2%	920		45%	414	10%	92	55%	506
Recoverable C&D	15.5%	2,760		45%	1,242	10%	276	55%	1,518
Non-recoverable C&D	14.6%	2,605		0%	-	10%	261	10%	261
Other Materials	9.8%		1,749		-		-	0%	-
Household Hazardous Waste	0.3%	47		0%	-	10%	5	10%	5
Electronic Waste	0.9%	158		0%	-	10%	16	10%	16
Tires	0.1%	25		0%	-	10%	3	10%	3
Bulky Items	6.3%	1,125		45%	506	15%	169	60%	675
Non-recoverable Other	2.2%	394		0%	-	10%	39	10%	39
Totals	0.0%	100.0%	17,860	25%	4,408	10%	1,769	35%	6,177

RECYCLED / COMPOSTED	SFD, MFD, COM	SELF-H	SFD, MFD, COM, SELF-H	SFD, MFD, COM	MFD, COM	TOTAL
Material Categories - WARM	Single-Use Plastics Ban	C&D Ordinance Update	Zero Waste Culture Change	Mandatory Recycling and Composting	Targeted Technical Assistance	
Aluminum Cans						-
Aluminum Ingot						-
Steel Cans						-
Copper Wire						-
Glass			244	145	391	780
HDPE	48		101	60	171	380
LDPE						-
PET	48		101	60	171	380
LLDPE						-
PP						-
PS						-
PVC						-
PLA						-
Corrugated Containers		157	338	198	669	1,362
Magazines/Third-class Mail						-
Newspaper			122	72	206	400
Office Paper						-
Phonebooks						-
Textbooks						-
Dimensional Lumber		1,267	584		235	2,085
Medium-density Fiberboard						-
Food Waste (non-meat)						-
Food Waste (meat only)						-
Beef						-
Poultry						-
Grains						-
Bread						-
Fruits and Vegetables						-
Dairy Products						-
Yard Trimmings		503	558	281	843	2,185
Grass						-
Leaves						-
Branches						-
Mixed Paper (general)			1,676	996	3,074	5,746
Mixed Paper (primarily residential)						-
Mixed Paper (primarily from offices)						-
Mixed Metals		167	301	162	478	1,109
Mixed Plastics	151	151	496	281	811	1,890
Mixed Recyclables						-
Food Waste			4,553	1,415	4,061	10,029
Mixed Organics			433	-	614	1,047 *
Mixed MSW						-
Carpet		414	165		39	618
Personal Computers			66		107	173

Clay Bricks						-
Concrete		311	163		46	519
Fly Ash						-
Tires			13		9	22
Asphalt Concrete		311	163		46	519
Asphalt Shingles		311	163		46	519
Drywall		311	163		46	519
Fiberglass Insulation						-
Vinyl Flooring						-
Wood Flooring						-
Total	247	3,902	10,402	3,671	12,060	30,281

SOURCE REDUCED						
Mixed Paper (General)			144		306	450
Mixed Plastics	249		930		1,543	2,722
Glass			68		103	171
Mixed Metals			96		184	280
Mixed Organics			619		801	1,421
Fiberglass Insulation			312		123	434
Vinyl Flooring			312		123	434
Mixed Recyclables		506	794		386	1,686
Total	249	506	3,274	-	3,568	7,598

**

Grand Total	496	4,408	13,676	3,671	15,628	37,879
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13,827

*Not included in WARM analysis; model does not include textiles

**Not included in WARM analysis; model cannot model mixed organics source reduction

***Not included in WARM analysis; model cannot model source reduction for these categories

Strategy Recommendation	Estimated Change in GHG Emissions MTCO ₂
Reusable and Compostable Foodware Ordinance	1,000
Mandatory Recycling and Composting	7,250
C&D Ordinance Update	4,300
Targeted Technical Assistance	26,700
Zero Waste Culture Change	17,700
Total	56,950

**See WARM model spreadsheets for estimate info

