

Marin Sanitary Service



Town of San Anselmo 2007 Service Year Annual Solid Waste Report

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Prepared for the Town of San Anselmo
By Steve Rosa and Ray Holmes

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Summary of Monthly Service Data.

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Analysis of Recycling and Yardwaste, Collection, Processing, and Marketing.

MARIN SANITARY SERVICE
TOWN OF SAN ANSELMO
MONTHLY REPORTING

SOLID WASTE DATA

	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07
1 x/wk	29	31	31	33	31	31	31	31	30	30	30	29
1 x/wk	131	124	123	119	120	120	121	116	115	116	116	116
2 x/wk	9	10	10	10	10	10	10	10	10	10	10	10
3 x/wk	4	3	3	3	3	3	3	2	2	2	2	2
4 x/wk	54	53	54	55	56	55	54	58	61	59	60	59
5 x/wk	4	4	4	4	4	4	4	4	4	4	4	4
6 x/wk	1	2	2	2	2	2	2	2	2	2	2	2
1 x/wk	1	1	1	1	1	1	1	1	1	1	1	1
2 x/wk	1	1	1	1	1	1	1	1	1	1	1	1
3 x/wk	36	35	35	37	37	39	38	38	38	37	37	37
4 x/wk	4	4	4	3	3	3	3	3	3	3	3	3
5 x/wk	1	1	1	1	1	1	1	1	1	1	1	1
6 x/wk	2	2	2	2	2	2	2	2	2	2	2	2
1 x/wk	17	17	16	17	17	17	17	17	17	17	17	17
2 x/wk	6	6	7	6	6	6	6	6	6	6	6	6
3 x/wk												
4 x/wk												
5 x/wk												
6 x/wk												
1 x/wk	12	11	11	11	11	10	11	11	11	11	11	11
2 x/wk	10	10	10	10	10	10	10	10	10	10	10	10
3 x/wk	4	4	4	4	4	4	4	4	4	4	4	4
4 x/wk												
5 x/wk												
6 x/wk												
1 x/wk	1	1	1	1	1	1	1	1	1	1	1	1
2 x/wk	3	3	3	3	3	3	3	3	3	3	3	3
3 x/wk	2	2	2	2	2	2	2	2	2	2	2	2
4 x/wk												
5 x/wk												
6 x/wk												
1 x/wk	2	2	2	2	2	2	2	2	2	2	2	2
2 x/wk	1	1	1	1	1	1	1	1	1	1	1	1
3 x/wk												
4 x/wk												
5 x/wk												
6 x/wk												
1 x/wk	2	2	2	2	2	2	2	2	2	2	2	2
2 x/wk	1	1	1	1	1	1	1	1	1	1	1	1
3 x/wk												
4 x/wk												
5 x/wk												
6 x/wk												
1 x/wk	2	2	2	2	2	2	2	2	2	2	2	2
2 x/wk	1	1	1	1	1	1	1	1	1	1	1	1
3 x/wk												
4 x/wk												
5 x/wk												
6 x/wk												
1 x/wk	1	1	1	1	1	1	1	1	1	1	1	1
20 yard bin												

COMMERCIAL

Service levels

MARIN SANITATION SERVICE
TOWN OF SAN ANSELMO
MONTHLY REPORTING

SOLID WASTE DATA

	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07
Total accounts	283	275	275	277	277	275	275	277	278	276	276	274
Weekly set-outs/services	446	438	439	437	437	437	437	431	432	430	431	429
Average daily set-outs	89	88	88	87	87	87	87	86	86	86	86	86
Average daily tons	8.4	7.4	7.0	7.0	7.1	7.5	6.9	6.7	6.9	7.9	7.7	8.9
Average daily tons disposed or processed	8.4	7.4	7.0	7.0	7.1	7.5	6.9	6.7	6.9	7.9	7.7	8.9
Disposal facility(ies) used	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹

MUNICIPAL

Service levels	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07
20 gallon cart/can	27	27	27	27	27	27	27	27	27	27	27	27
32 gallon cart/can	25	25	25	25	25	25	25	25	25	25	25	25
2 yard bin	2	2	2	2	2	2	2	2	2	2	2	2
2 yard bin												
2 yard bin												
2 yard bin												
2 yard bin												
2 yard bin												
2 yard bin												
3 yard bin												
3 yard bin	1	1	1	1	1	1	1	1	1	1	1	1
3 yard bin	2	2	2	2	2	2	2	2	2	2	2	2
3 yard bin												
3 yard bin												
3 yard bin												
3 yard bin												
3 yard bin												
4 yard bin												
4 yard bin												
4 yard bin												
4 yard bin												
4 yard bin												
4 yard bin												
4 yard bin												
6 yard bin												
6 yard bin	1	1	1	1	1	1	1	1	1	1	1	1
6 yard bin												
6 yard bin												
6 yard bin												
6 yard bin												
20 yard bin												
Total accounts	377	377	377	377	377	377	377	377	377	377	377	377
Weekly set-outs/services	75	75	75	75	75	75	75	75	75	75	75	75
Average daily set-outs	1.8	1.6	1.6	1.6	1.6	1.7	1.5	1.5	1.6	1.7	1.7	1.9
Average daily tons	1.8	1.6	1.6	1.6	1.6	1.7	1.5	1.5	1.6	1.7	1.7	1.9
Average daily tons disposed or processed	1.8	1.6	1.6	1.6	1.6	1.7	1.5	1.5	1.6	1.7	1.7	1.9
Disposal facility(ies) used	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹	Redwood & MRRC ¹

¹ Refers to Redwood Landfill in Novato and the Marin Resource Recovery Center (MRRRC) in San Rafael.

**MARIN SANITARY SERVICE
TOWN OF SAN ANSELMO
MONTHLY REPORTING**

RECYCLING DATA

	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07
COMMERCIAL												
# of 5 gallon buckets	9	9	9	9	9	9	9	10	10	10	10	10
DS - 64 gallon cart	132	141	144	144	144	144	144	145	146	146	146	146
RP - 64 gallon cart	179	179	180	181	181	183	184	185	197	191	191	190
DS - 96 gallon cart	20	20	20	20	20	20	20	20	20	20	20	20
RP - 96 gallon cart	64	65	65	66	67	66	67	67	73	78	78	77
Manual cardboard	62	65	65	65	65	65	65	65	65	65	65	65
2 yard cardboard bin	30	30	30	30	30	30	30	30	30	30	30	30
3 yard cardboard bin												
20 yard rolloff	68.5	65.3	72.1	64.8	72.1	68.5	62.7	71.7	63.5	74.7	70.6	73.9
Gross tons collected	99	102	103	103	100	103	104	104	108	108	108	108
Average daily set-outs	2,148	2,204	2,221	2,230	2,156	2,239	2,247	2,260	2,343	2,338	2,338	2,330
Total set-outs	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%
Participation rate												
Materials processed												
Cardboard	33.8	34.3	34.8	32.5	35.2	35.0	32.9	37.3	32.4	37.2	30.5	35.5
Newspaper	23.2	20.8	25.0	21.6	24.7	22.4	19.9	23.0	20.8	25.2	26.9	25.8
Glass	9.6	8.6	10.3	8.9	10.2	9.3	8.2	9.5	8.6	10.4	11.1	10.6
Tin	0.7	0.6	0.7	0.6	0.7	0.7	0.6	0.7	0.6	0.8	0.8	0.8
Aluminum	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Plastic	1.0	0.9	1.1	1.0	1.1	1.0	0.9	1.0	0.9	1.1	1.2	1.2
Processing facility used	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹

MUNICIPAL

# of 5 gallon buckets												
DS - 32 gallon cart	2	2	2	2	2	2	2	2	2	2	2	2
DS - 64 gallon cart	8	8	8	8	8	8	8	8	8	8	8	8
RP - 64 gallon cart	13	13	13	13	13	13	13	13	17	17	17	17
Manual cardboard												
2 yard cardboard bin	3	3	3	3	3	3	3	3	3	3	3	3
20 yard rolloff												
Gross tons collected	2.8	2.5	2.9	2.0	3.0	2.7	2.4	2.7	2.7	3.2	3.3	3.3
Average daily set-outs	5	5	5	4	5	5	5	5	6	6	6	6
Total set-outs	113	113	113	85	113	113	113	113	130	130	130	130
Participation rate	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%
Materials processed												
Cardboard	0.7	0.6	0.7	0.6	0.7	0.7	0.6	0.7	0.6	0.6	0.5	0.6
Newspaper	1.5	1.3	1.5	1.0	1.5	1.4	1.2	1.4	1.4	1.8	1.9	1.8
Glass	0.6	0.5	0.6	0.4	0.6	0.6	0.5	0.6	0.6	0.7	0.8	0.8
Tin												
Aluminum												
Plastic												
Processing facility used	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹	MRC ¹

¹ Refers to Marin Recycling Center in San Rafael.

Section 3

Account Data

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Section 4

Public Education and Information Activity

1. Public Education Activity:

- March and November – Newsletter including Town News Sections;
- On-going – Set out and recycling protocol and pick-up services;
- On-going – Set out and pick-up info handout to new customers.

2. Distribution of Bill Inserts: Rate Increase Notification mailed 3-15-07

3. Community Information and Events:

- May - St. Anselm's School Carnival
- June – Art Festival Sponsor – Donated garbage and recycling services.
- June - Drake High School Sober Grad Night
- July - Film Night in the Park Sponsor
- October - Brookside School Oktoberfest

4. Facility Tours:

- | | |
|--------------------|------------------------|
| • February 7, 2007 | Star Academy |
| • April 2, 2007 | Brookside Lower School |
| • April 16, 2007 | Brookside Lower School |
| • April 17, 2007 | Brookside Lower School |
| • April 19, 2007 | Brookside Lower School |
| • October 1, 2007 | Wade Thomas School |
| • October 4, 2007 | Wade Thomas School |

Section 5

Analysis of Recycling and Yardwaste Collection, Processing, and Marketing.

Recycling

Collection

San Anselmo's dual sort curbside residential collection program is currently performed using buckets for glass and plastic bottles, aluminum and tin cans, and paper bundled or bagged. 64 gallon carts are used for dual sort collection for multi-family and commercial accounts. 1 cart is used for paper products and 1 cart is used for glass and plastic bottles, aluminum and tin cans. Trucks used are dual bin side loaders.

Commercial accounts also receive cardboard collection using rear load bins for large amounts, or placed at the curb by many of the small businesses in the downtown area.

Processing

All recyclable material collected in the Town is delivered by collection trucks to the Marin Recycling Center for processing. All material is tipped on a live floor then moved by loaders onto conveyor belts for delivery to the correct sorting station by commodity. Contaminants are removed as the material passes through the sort deck, then sent to a baler producing bales of approximately 1,500 lbs. Bales are stacked and prepared for loading into shipping containers.

Marketing

The participation rate for curbside recycling is 92% of all accounts in the Town. There is an overall mild contamination problem of material that is addressed with each customer per occurrence. Public education for single family, multi-family, and commercial customers is on-going in an effort to reduce contamination.

Resale markets for recyclable material are stable for all commodities. Paper, plastic bottles, aluminum cans, and tin cans are loaded separately in shipping containers for delivery to various material brokers. Glass bottles are loaded into large dump trucks and delivered to a glass recycling plant.

Yardwaste

Collection

Curbside collection of yardwaste in San Anselmo is performed using 1-64 gallon rolling cart for weekly collection. Carts are available to all multi-family and commercial customers as well. All residents or businesses may set-out for collection an additional 5-32 gallon customer owned cans each week at no additional cost. Collection is performed using semi-automated rear load packer trucks.

Processing

Yardwaste collected in the Town is delivered to The Marin Resource Recovery Center where it is tipped onto a live floor. Yardwaste material is kept separate from other wood products and allowed to partially dry. Material is pre-sorted for contamination, then loaded onto conveyor belts feeding a large chipping machine. A final check for contamination is made as the material passes along the conveyors. The ground material or woodchips are sent by conveyor to a storage silo in preparation for loading into transport trailers.

Marketing

Marin Sanitary Service has a stable market for all yardwaste processed from the Town of San Anselmo. In August of 2007 Redwood Sanitary Landfill in Novato began a new yardwaste composting program. Marin Sanitary currently sends 40 % of curbside collected yardwaste to the landfill for participation in the composting program. No yardwaste from the Town of San Anselmo will be used as Alternative Daily Cover (ADC).

On October 15, 2007 Marin Sanitary Service began a Foodwaste Collection Research Project wherein a small amount of foodwaste is mixed daily with yardwaste in a bio-cell for in-vessel composting. This is an experimental project to determine the

feasibility of composting yardwaste and foodwaste together in a closed system. At the end of one year results of the program will be evaluated and along with other factors such as space requirements and permitting issues a decision will be made as to whether or not the program should be expanded.

There are currently no conditions in the yardwaste market that adversely effect single family, multi-family, or commercial customers.