



March 2023 SB 1383 Contamination Monitoring Results

Re Gen Board Meeting, May 19, 2023





Summary

Total Flips: 1385

- Residential: 815
- Commercial: 570

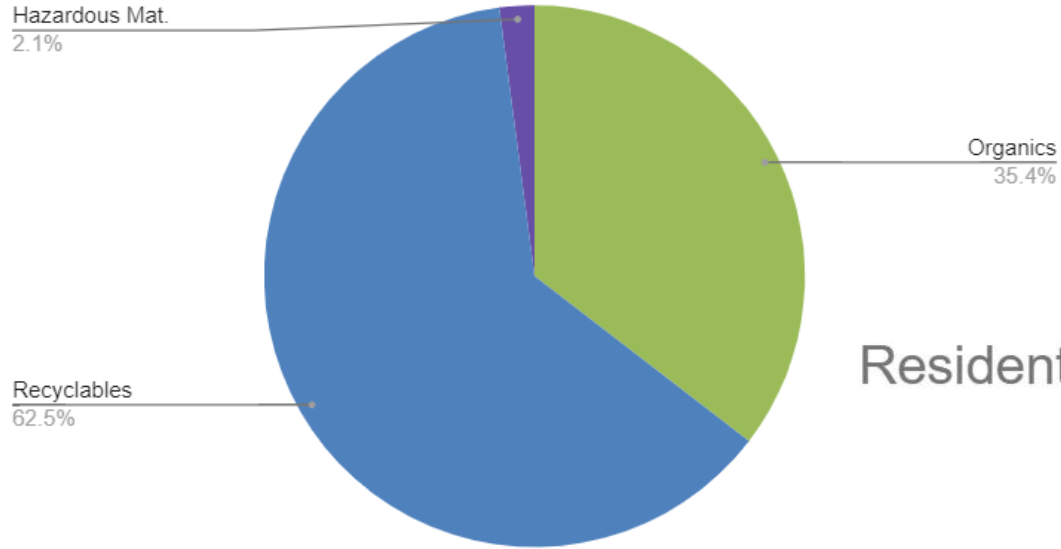
Total Flips with Contamination (any level): 233

- 16.82% contamination rate **overall**
- 15.09% contamination rate for **residential**
- 19.30% contamination rate for **commercial**

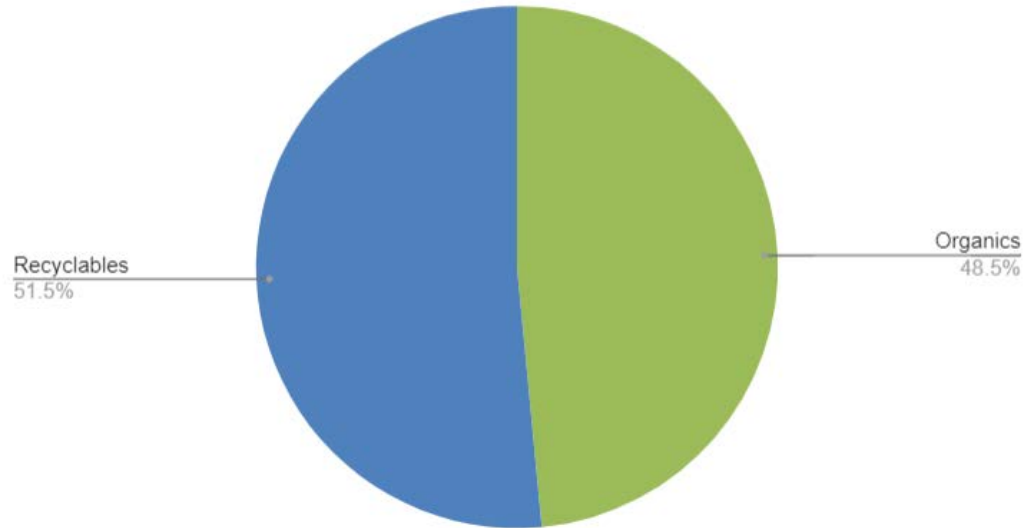
Common Contaminants



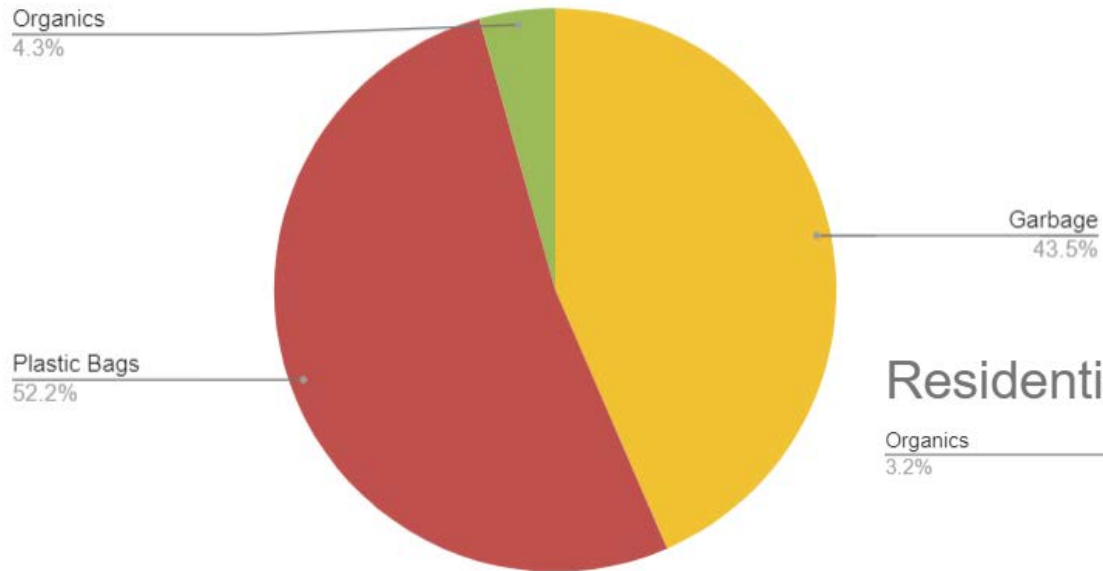
Commercial Garbage Contaminants



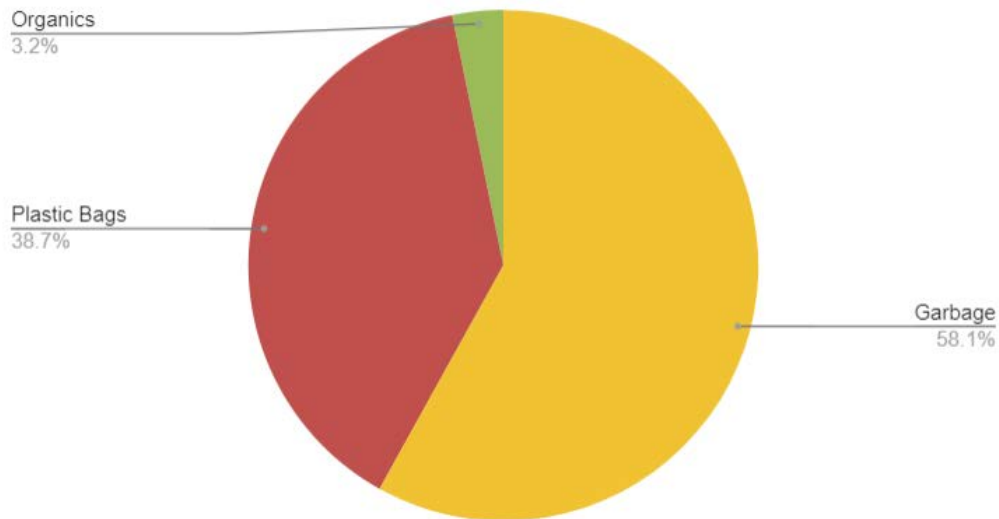
Residential Garbage Contaminants



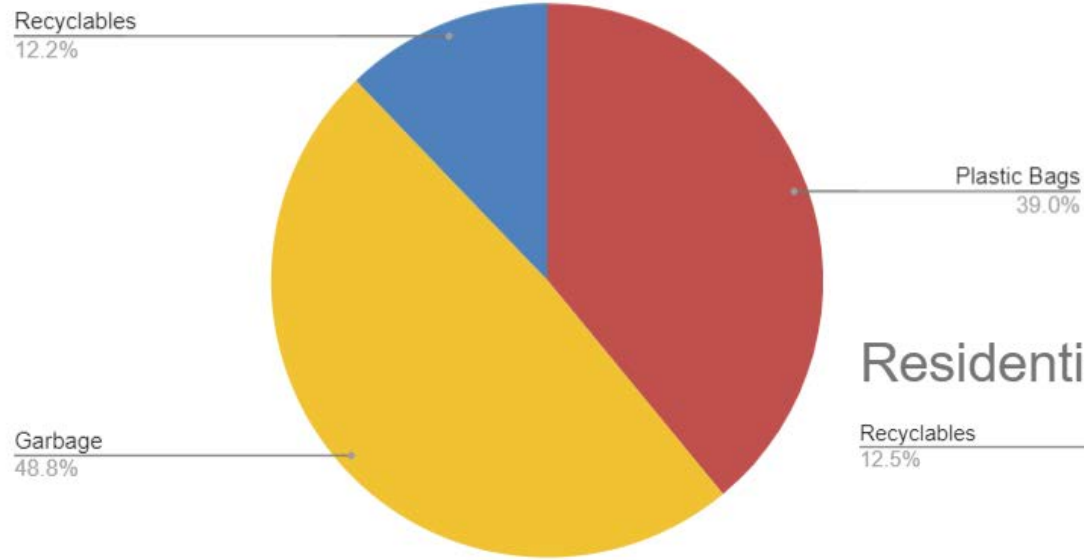
Commercial Recycling Contaminants



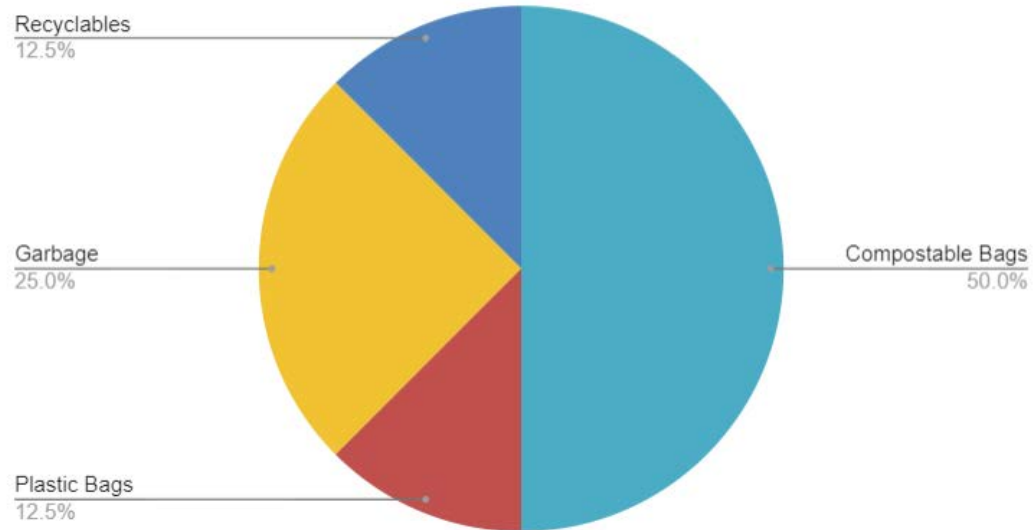
Residential Recycling Contaminants



Commercial Organics Contaminants



Residential Organics Contaminants



Results by Jurisdiction



Total Number of Contaminated Flips

| Jurisdiction | | Garbage | | | Recycling--Mixed and Cardboard | | | Organics | | | Total | |
|--|-------------|------------|-----------------|-------------|--------------------------------|-----------------|-------------|------------|-----------------|-------------|-------|-----|
| | | Low (<10%) | Medium (10-50%) | High (>50%) | Low (<10%) | Medium (10-50%) | High (>50%) | Low (<10%) | Medium (10-50%) | High (>50%) | | |
| Marina | Residential | 1 | | | 2 | | 4 | 2 | | | 9 | 31 |
| | Commercial | 5 | | | 7 | 3 | | 3 | 3 | 1 | 22 | |
| Sand City | Residential | 5 | | | 1 | | | | | | 6 | 11 |
| | Commercial | | | | 2 | | | 1 | | 2 | 5 | |
| Del Rey Oaks | Residential | 2 | | | 5 | | | | | | 7 | 11 |
| | Commercial | | | 1 | 1 | 1 | | 1 | | | 4 | |
| Carmel-By-The-Sea | Residential | 1 | | | 4 | | 2 | | | | 7 | 16 |
| | Commercial | 1 | | | 5 | | | 3 | | | 9 | |
| Monterey | Residential | 15 | 2 | 1 | 40 | 3 | 3 | 2 | 1 | | 67 | 128 |
| | Commercial | 26 | 1 | | 19 | 1 | 2 | 8 | 1 | 3 | 61 | |
| Pacific Grove | Residential | 1 | | | 5 | | 1 | 1 | | | 8 | 14 |
| | Commercial | 2 | | 1 | 3 | | | | | | 6 | |
| Seaside | Residential | 2 | | | 5 | | 4 | 2 | | | 13 | 16 |
| | Commercial | 1 | | | | | | 1 | 1 | | 3 | |
| Pebble Beach Community Services District | Residential | 2 | | | 3 | 1 | | | | | 6 | 6 |
| Total | | 64 | 3 | 3 | 102 | 9 | 16 | 24 | 6 | 6 | 233 | |
| | | 70 | | | 127 | | | 36 | | | | |

Marina

Overall
contamination
(any level):
18.67%

| Percent of Flips With Contamination | | | | |
|-------------------------------------|-----------------|--------------|---------------|---------------|
| Waste Stream | | Residential | Commercial | Total |
| Garbage | Low (<10%) | 4% | 14.70% | 10.17% |
| | Medium (10-50%) | 0 | 0 | 0 |
| | High (>50%) | 0 | 0 | 0 |
| | Total | 4% | 14.70% | 10.17% |
| | | | | |
| Mixed Recycling | Low (<10%) | 8% | 20.59% | 15.25% |
| | Medium (10-50%) | 0 | 8.82% | 5.08% |
| | High (>50%) | 16% | 0 | 7% |
| | Total | 24% | 29.41% | 27.12% |
| | | | | |
| Organics | Low (<10%) | 8.33% | 12.50% | 10.42% |
| | Medium (10-50%) | 0 | 12.50% | 6.25% |
| | High (>50%) | 0 | 4.17% | 2.08% |
| | Total | 8.33% | 29.17% | 18.75% |
| | | | | |

Sand City

Overall
contamination (any
level): **7.01%**

| Percent of Flips With Contamination | | | | |
|-------------------------------------|-----------------|---------------|---------------|--------------|
| Waste Stream | | Residential | Commercial | Total |
| Garbage | Low (<10%) | 12.82% | 0 | 9.26% |
| | Medium (10-50%) | 0 | 0 | 0 |
| | High (>50%) | 0 | 0 | 0 |
| | Total | 12.82% | 0 | 9.26% |
| Mixed Recycling | Low (<10%) | 2.50% | 13.33% | 5.45% |
| | Medium (10-50%) | 0 | 0 | 0 |
| | High (>50%) | 0 | 0 | 0 |
| | Total | 2.5 | 13.33 | 5.45% |
| Organics | Low (<10%) | 0 | 10% | 2.08% |
| | Medium (10-50%) | 0 | 0 | 0 |
| | High (>50%) | 0 | 20% | 41.67% |
| | Total | 0 | 30.00% | 6.25% |

Del Rey Oaks

Overall
contamination
(any level):
18.03%

| Percent of Flips With Contamination | | | | |
|-------------------------------------|-----------------|---------------|---------------|---------------|
| Waste Stream | | Residential | Commercial | Total |
| Garbage | Low (<10%) | 12.50% | 0 | 9.52% |
| | Medium (10-50%) | 0 | 0 | 0 |
| | High (>50%) | 0 | 20% | 4.76% |
| | Total | 12.50% | 20% | 14.29% |
| Mixed Recycling | Low (<10%) | 31.25% | 20% | 28.57% |
| | Medium (10-50%) | 0 | 20% | 4.76% |
| | High (>50%) | 0 | 0 | 0 |
| | Total | 31.25% | 40% | 33.33% |
| Organics | Low (<10%) | 0 | 33.33% | 5.26% |
| | Medium (10-50%) | 0 | 0 | 0 |
| | High (>50%) | 0 | 0 | 0 |
| | Total | 0 | 33.33% | 5.26% |

Carmel- By- The- Sea

Overall contamination
(any level): **11.43%**

| Percent of Flips With Contamination | | | | |
|-------------------------------------|-----------------|---------------|------------|---------------|
| Waste Stream | | Residential | Commercial | Total |
| Garbage | Low (<10%) | 4.35% | 4% | 4.17% |
| | Medium (10-50%) | 0 | 0 | 0 |
| | High (>50%) | 0 | 0 | 0 |
| | Total | 4.35% | 4% | 4.17% |
| Recycling--Mixed and Cardboard | Low (<10%) | 17.39% | 20% | 18.75% |
| | Medium (10-50%) | 0 | 0 | 0 |
| | High (>50%) | 8.70% | 0 | 4.17% |
| | Total | 26.09% | 20% | 22.92% |
| Organics | Low (<10%) | 0 | 12% | 6.82% |
| | Medium (10-50%) | 0 | 0 | 0 |
| | High (>50%) | 0 | 0 | 0 |
| | Total | 0 | 12% | 6.82% |

Monterey

Overall
contamination
(any level):
29.49%

| Percent of Flips With Contamination | | | | |
|-------------------------------------|-----------------|---------------|---------------|---------------|
| Waste Stream | | Residential | Commercial | Total |
| Garbage | Low (<10%) | 16.13% | 23.21% | 20.00% |
| | Medium (10-50%) | 2.15% | 0.89% | 1.46% |
| | High (>50%) | 1.08 | 0 | 0.49% |
| | Total | 19.35% | 24.11% | 21.95% |
| | | | | |
| Recycling--Mixed and Cardboard | Low (<10%) | 43.01% | 33.93% | 39.60% |
| | Medium (10-50%) | 3.23% | 1.79% | 2.68% |
| | High (>50%) | 3.23% | 3.57% | 3.36% |
| | Total | 49.46% | 39.29% | 45.64% |
| | | | | |
| Organics | Low (<10%) | 3.64% | 32% | 12.50% |
| | Medium (10-50%) | 1.82% | 4% | 2.50% |
| | High (>50%) | 0 | 12% | 3.75% |
| | Total | 5.45% | 48% | 18.75% |
| | | | | |

Pacific Grove

Overall
contamination
(any level):
8.64%

| Percent of Flips With Contamination | | | | |
|-------------------------------------|-----------------|---------------|--------------|---------------|
| Waste Stream | | Residential | Commercial | Total |
| Garbage | Low (<10%) | 4.00% | 6% | 5.36% |
| | Medium (10-50%) | 0 | 0 | 0 |
| | High (>50%) | 0 | 3.23% | 1.79 |
| | Total | 4.00% | 9.68% | 7.14% |
| Mixed Recycling | Low (<10%) | 20.00% | 9.68% | 14.29% |
| | Medium (10-50%) | 0 | 0 | 0 |
| | High (>50%) | 4.00% | 0 | 5.36% |
| | Total | 24.00% | 9.68% | 16.07% |
| Organics | Low (<10%) | 4% | 0% | 2.00% |
| | Medium (10-50%) | 0 | 0 | 0 |
| | High (>50%) | 0 | 0 | 0 |
| | Total | 4% | 0% | 2.00% |

Seaside

Overall
contamination
(any level):
7.69%

| Percent of Flips With Contamination | | | | |
|-------------------------------------|-----------------|---------------|--------------|---------------|
| Waste Stream | | Residential | Commercial | Total |
| Garbage | Low (<10%) | 4.35% | 3.57% | 4.05% |
| | Medium (10-50%) | 0 | 0 | 0 |
| | High (>50%) | 0 | 0 | 0 |
| | Total | 4.35% | 3.57% | 4.05% |
| Mixed Recycling | Low (<10%) | 11.11% | 0 | 6.94% |
| | Medium (10-50%) | 0 | 0 | 0 |
| | High (>50%) | 8.89% | 0 | 5.56% |
| | Total | 20.00% | 0 | 12.50% |
| Organics | Low (<10%) | 4.35% | 6.25% | 4.84% |
| | Medium (10-50%) | 0 | 6.25% | 1.61% |
| | High (>50%) | 0 | 0 | 0 |
| | Total | 4.35% | 12.5% | 6.45% |

Pebble Beach Community Services District

Overall contamination (any level):
10.53%

Percent of Flips With Contamination

| Waste Stream | | Residential |
|-----------------|------------------------|---------------|
| Garbage | <i>Low (<10%)</i> | 10.53% |
| | <i>Medium (10-50%)</i> | 0 |
| | <i>High (>50%)</i> | 0 |
| | Total | 10.53% |
| Mixed Recycling | <i>Low (<10%)</i> | 15.79% |
| | <i>Medium (10-50%)</i> | 5.26% |
| | <i>High (>50%)</i> | 0 |
| | Total | 21.05% |
| Organics | <i>Low (<10%)</i> | 0 |
| | <i>Medium (10-50%)</i> | 0 |
| | <i>High (>50%)</i> | 0 |
| | Total | 0 |

Observations and Recommendations

- Few organics carts out for residential addresses, likely due to seasonality
- Education needed surrounding compostable bags and bagging recyclables
- Add more addresses to each route, especially for residential routes
- Many commercial addresses without organics service, more education or technical assistance may be needed



Qualitative Observations

- For residential addresses, most organics in garbage stream were due to a full yard waste bin
- Recycling contamination was often due to recyclables being bagged
- Residential yard waste bins tend to have very little contamination



Thank you. Questions?

