



R·R·R·A·S·O·C

2018 Annual Report

Member Communities

**Farmington
Farmington Hills
Milford
Milford Township
Novi
South Lyon
Southfield
Walled Lake
Wixom**

Board of Directors

Chairman

Fred Zorn, City Administrator, Southfield

Vice Chairman

David Boyer, City Manager, Farmington Hills

Treasurer

Chelsea Pesta, Assistant City Manager, Walled Lake

Secretary

Gary Mekjian, Assistant City Manager, Farmington Hills

David Murphy, City Manager, Farmington
Christian Wuerth, Village Manager, Milford
Don Green, Township Supervisor, Milford Township
Pete Auger, City Manager, Novi
Paul Zelenak, City Manager, South Lyon
L. Dennis Whitt, City Manager, Walled Lake
Steve Brown, City Manager, Wixom

Designated Board Alternates

Chuck Eudy, Director, Farmington Department of Public Services
Karen Mondora, Director, Farmington Hills Department of Public Services
Robert Calley, Director, Milford Department of Public Services
Victor Cardenas, Assistant City Manager, Novi
John Michrina, Deputy City Administrator, Southfield
Tim Sikma, Director, Wixom Department of Public Works

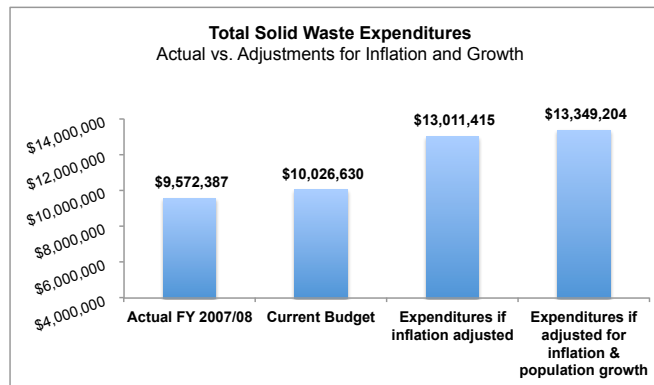
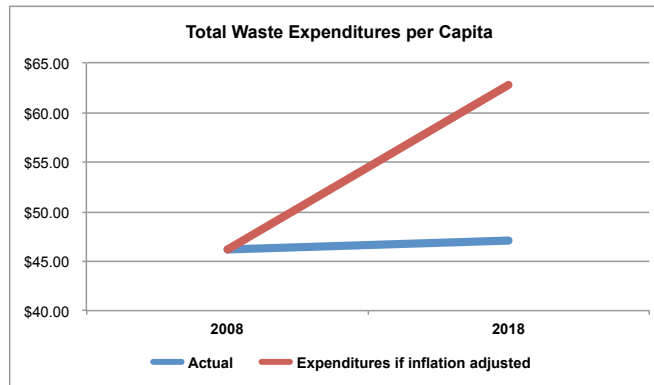
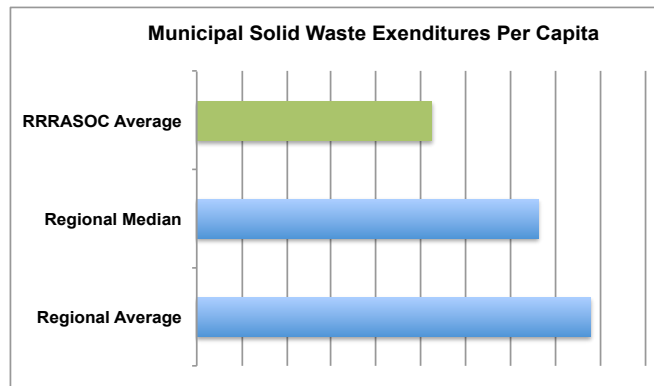
RRRASOC Staff

Michael Csapo, General Manager
Laura Shaw, Administrative Secretary
Tracy Purrenhage, Recycling Coordinator

Throughout 2018 RRRASOC continued to emphasize community stewardship through intergovernmental cooperation, public private partnerships, and competitive contracting with private sector expertise to provide first class solid waste and recycling services to residents. Our focus remained on best practices and innovation tailored to local needs.

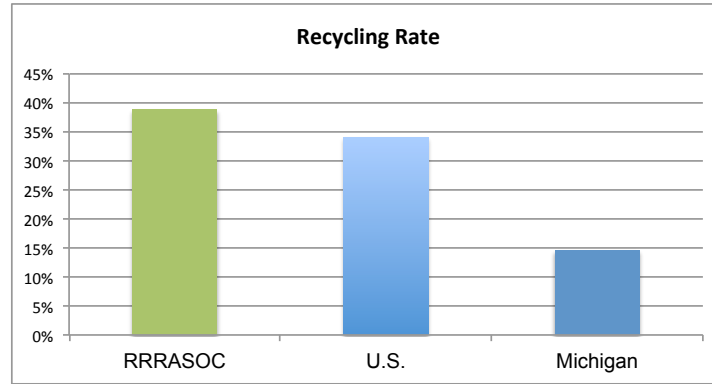
Notable activities in 2018 included:

- The completion of the *Solid Waste Expenditure Benchmark Study* that demonstrated the cost effectiveness of the programs in the RRRASOC communities;
- Continued growth in services and programs;
- Continued improvement in program performance;
- The installation of new, custom-designed components of the Fire Rover system to provide enhanced fire protection at the Materials Recovery Facility (MRF).

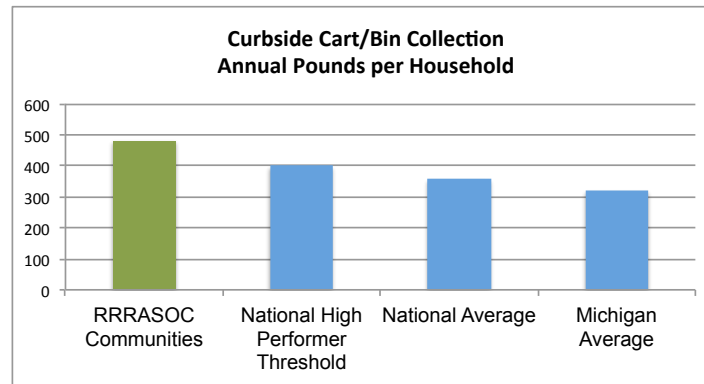


Nearly 37,800 tons of recyclable and reusable material, yard waste, and household hazardous waste items were collected and diverted from local landfills through the RRRASOC curbside collection, drop-off, and event-based programs.

The combined recycling rate of the RRRASOC communities was 38.8%, which compares favorably to Michigan's 15%, as well as the national average of 35%.



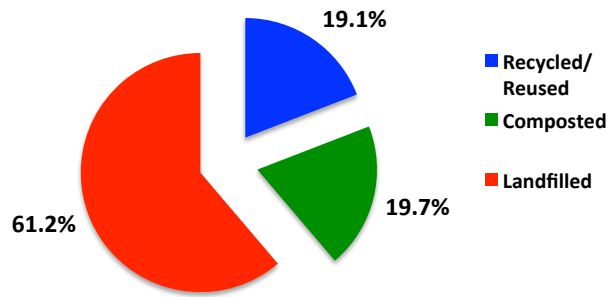
The cities of South Lyon and Walled Lake joined the other RRRASOC communities in making curbside recycling carts an option for homeowners. Overall, the RRRASOC communities collected 480 pounds per household through their curbside cart/bin collection programs, exceeding the national "High Performer" benchmark, in addition to the national and Michigan averages.



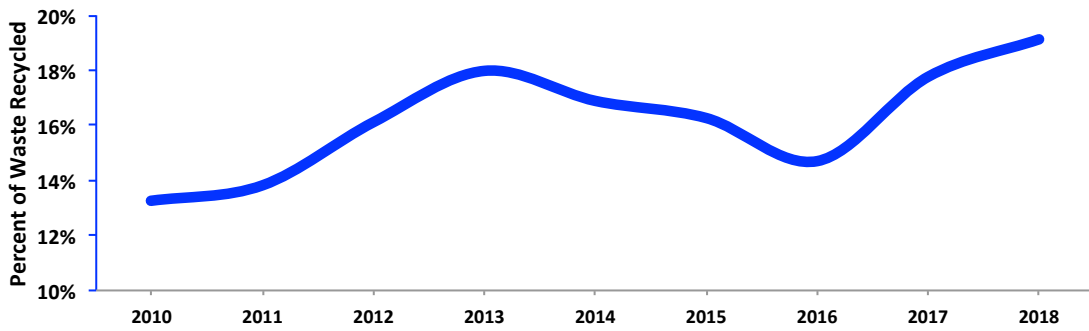
Lifecycle analysis shows that recapturing those resources for value-added economic activity also yielded significant environmental benefits, including the following:

- ♻️ Conserved nearly 185 billion Btu, the equivalent of the annual energy consumption of 1,830 households;
- ♻️ Preserved more than 138,372 trees;
- ♻️ Reduced waterborne pollution emissions by 77 tons;
- ♻️ Reduced airborne pollution emissions by 20,726 metric tons of carbon equivalent.

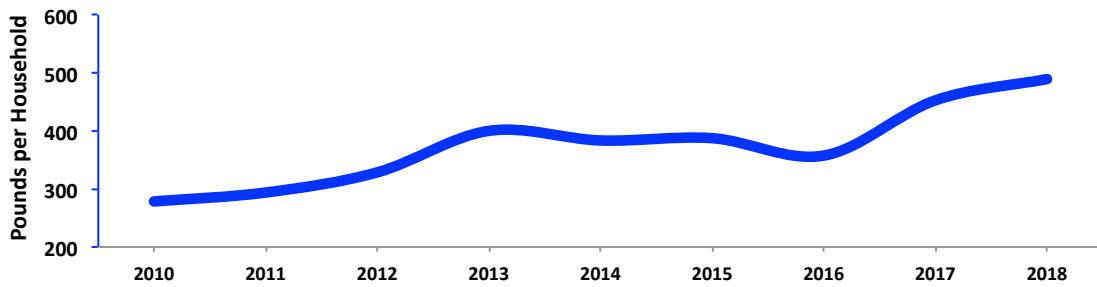
Solid Waste Disposition: 2018



Recycling History



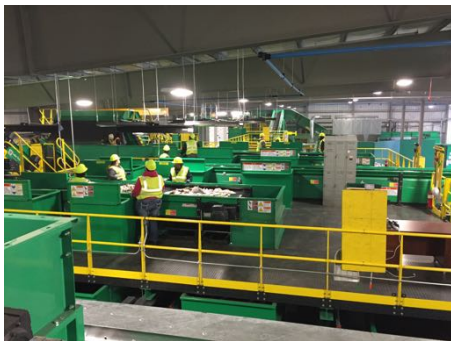
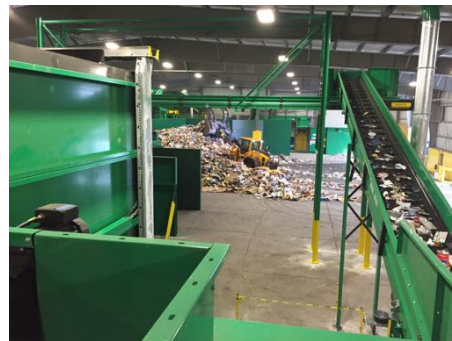
Recycling History Curbside Collection



Republic Services completed the acquisition of Recommunity Recycling and the transition to RRRASOC's new MRF operating partner. Republic Services operated the MRF at full capacity, running two production shifts per day, often six days per week, as the MRF served as the cornerstone for the recycling in the RRRASOC communities and much of southeast Michigan.



Overall, the facility processed 78,500 tons during the year, with 23% representing recycling from the 73,000 RRRASOC area households and the RRRASOC drop-off centers. Our communities combined for more than 18,000 tons of paper, glass, plastic, and metal that was processed at the MRF and shipped throughout the U.S. and abroad, providing valuable feedstock for manufacturers.



RRRASOC's Household Hazardous Waste (HHW) collection program had great participation in 2018, with more than 7,600 residents participating in the program to take advantage of the opportunity to recycle and properly disposed of the hazardous material found in their homes. An attendance record was set at the Wixom event and the total program participation was 38% above the average of the prior ten years.

Nearly 400,000 pounds of material were collected in 2018. The material was comprised of the following:

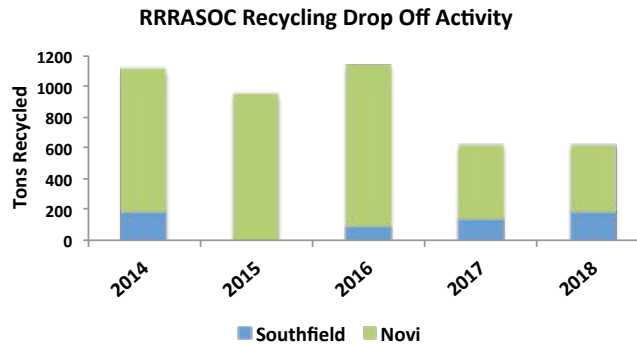
- Used electronic equipment = 56.8%
- Lead acid and dry cell batteries = 8.1%;
- Herbicides, pesticides, and other toxic products = 7.7%;
- Motor oil = 7.7%;
- Oil-based paint = 4.1%;
- Other flammable liquids = 4.1%;
- The remaining 11% fell into 13 other categories of hazardous materials.

ERG Environmental Services, a local hazardous waste company, handled the material. Disposal and recycling costs through ERG continued to be the lowest in southeast Michigan. All material was handled in accordance with state and federal laws. Document shredding was also provided at each event.



RRRASOC's recycling drop-off centers continued to be a popular recycling option for many throughout the region. Last year, more than 620 tons were brought to the sites.

The drop-off center in Novi accounted for 432 tons of recycling, with the Southfield location contributing another 188 tons.



In 2018, the City of Novi joined the rest of the RRRASOC communities in participating in the weekly curbside collection of clothing and small household goods by Simple Recycling.

Designed to complement charitable giving by our homeowners, the program offers an opportunity to ensure that household goods that might otherwise be landfilled are integrated back into the value chain. During the year, nearly 367,000 pounds were collected for reuse and recycling.



RRRASOC continued to use a multi-platform approach to community outreach and homeowner education. Last year's efforts complemented the communication programs of our individual communities with the following:

- Nearly 73,000 direct mail educational postcards were sent;
- 49,600 material searches using our online Recycling Directory were conducted;
- Downloads of the Recycling Directory mobile application grew to over 1,300;
- Subscribers to our monthly electronic newsletter increased to nearly 2,100;
- 44 tours of the MRF were given, involving more than 1,000 visitors;
- Four offsite presentations were given to students and community groups;
- 1,713 new resident packets were distributed.



R·R·R·A·S·O·C

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**Resource Recovery and Recycling Authority of Southwest Oakland County
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