



# Royal Oak

## Agenda

### Royal Oak Environmental Advisory Board Meeting

Wednesday, September 25, 2024, 7:00 p.m.

Royal Oak Farmers Market  
316 East Eleven Mile Road  
Royal Oak, MI 48067

Anyone planning to attend the meeting who has need of special assistance under the Americans with Disabilities Act (ADA) is asked to contact the city clerk's office at 248-246-3050 at least two (2) business days prior to the meeting.

---

#### Pages

1.	Call to Order	
2.	Approval of Agenda	
3.	Approval of Minutes	2
4.	Public Comment	
5.	New Business	
6.	Old Business	
	a. EAB Update to Bylaws and Ordinance Susan Barkman	5
7.	Receive and File	
	a. City Commission Report	15
	b. Staff Report	17
	c. Subcommittee/Other Reports	
	d. SOCRRRA Tonnage Report	22
	e. SOCWA Water & Precipitation Report	24
8.	General Announcements	
9.	Adjournment	



# Royal Oak

Minutes

## Royal Oak Environmental Advisory Board

August 28, 2024, 7:00 p.m.  
Royal Oak Farmers Market  
316 East Eleven Mile Road  
Royal Oak, MI 48067

Present: Amanda Herzog  
Woody Gontina  
Tessa Benziger  
Zoe Chase  
Frank Komola  
Julie Lyons Bricker  
Ed Slesak  
Jill Robinson

Absent: Brock Bosack  
Nicholas Marcelletti  
Paul Vial

---

### 1. Call to Order

The meeting was called to order at 7:02 pm.

### 2. Approval of Agenda

Moved by: Julie Lyons Bricker  
Seconded by: Zoe Chase

Motion to approve the agenda as published.

Motion Adopted

### 3. Approval of Minutes

Member Robinson noted that her name did not appear in the previous month.

Moved by: Jill Robinson  
Seconded by: Julie Lyons Bricker

Motion to approve the minutes of the board's June 26 and July 31, 2024 meetings.

Motion Adopted

**4. Public Comment**

Mike Thompson of Lawson Park Homeowner's Association advocated for allowing the association to 'adopt' the traffic diverter berms.

Bill Gavreau further discussed adopting a couple of berms. Supports the initiative to facilitate resident-adopted areas for maintenance.

Ronald Arnold also spoke in support of the concept.

Treva Sept 11 6pm will give an informational talk at the library.

**5. New Business**

**6. Old Business**

**6.a Revisit Bylaws Conversation**

Member Lyons-Bricker provided several revision suggestions which were notated in the draft document by attending staff.

Commissioner Herzog discussed making sure the city manager had the authority to select different or multiple staff liaison.

The members discussed how/if there should be a formal nominating process in advance of the annual organizational meeting and if there should be a minimum of 1 year prior service for the chair and vice chair positions.

The members and staff discussed the occasional use of subcommittees and how to function with those in accordance with OMA rules.

The group expressed a general preference for 13 total members, with discussion on how many should be students.

Chair Gontina suggested added language to the statement of purpose that mentions the board's task of facilitating community communications for related issues.

Staff will provide a revised draft that incorporates the suggested revisions for board review at a future meeting.

**7. Receive and File**

**7.a City Commission Report**

**7.b Staff Report**

**7.c Subcommittee/Other Reports**

**7.d SOCRRA Waste & Recycling Tonnage Reports**

**8. General Announcements**

**9. Adjournment**

The meeting was adjourned at 9:02pm.

Moved by: Zoe Chase

Seconded by: Ed Slesak

Motion to adjourn.

Motion Adopted



## ENVIRONMENTAL ADVISORY BOARD AGENDA ITEM

<b>TITLE</b>	EAB Update to Bylaws and Ordinance
<b>SUBMITTING DEPARTMENT</b>	City Manager
<b>PRESENTER</b>	Susan Barkman
<b>MEETING DATE</b>	September 26, 2024
<b>S-CAP Goal</b>	

### **EXECUTIVE SUMMARY** (*include history of previous action/discussion, background, scope of work, etc.:*)

Over the past few meetings EAB has been discussing potential changes to the bylaws and the ordinance that created EAB. Based on discussions staff has drafted the attached documents. Please note that these have not been reviewed by the City Attorney's Office at this time.

One thing you should note is that we are making changes to the ordinance that guides student participation on our boards and commissions overall. That ordinance is being structured in a way that states student members on any board are considered full voting members, and adds them to the board in addition to anything that specific legislation states. We constructed the bylaws and ordinance with that in mind. This means your total board members in the ordinance is 11, and any current and future appointed student members would automatically adjust your total voting membership, and quorum. Based on the current situation, your two student members would be added on top of the 11 members described, bringing you to the total of 13 which is what the board indicated that they wanted.

EAB will need to determine if these drafted documents are updated as you would like them to be. After this meeting, we would forward them to the City Attorney's Office for review. If he makes no significant changes, we would move them forward to the city commission for review and approval. If the attorney recommends changes that are substantive we would bring them back for EAB.

At the earliest, staff estimates that these could potentially go on the second meeting in October for the city commission to review and approve. The bylaws will only require one reading, while the ordinance will require two readings to be approved.

---

### **QUESTION FOR THE BOARD**

Does EAB wish to make any additional changes to the ordinance or bylaws?

## Chapter 64

### ENVIRONMENTAL ADVISORY BOARD

<b>§ 64-1.</b>	<b>Title.</b>	<b>§ 64-8.</b>	<b>Organization; meetings; records.</b>
<b>§ 64-2.</b>	<b>Statement of purpose.</b>	<b>§ 64-9.</b>	<b>Severability.</b>
<b>§ 64-3.</b>	<b>Definitions.</b>	<b>§ 64-10.</b>	<b>Savings.</b>
<b>§ 64-4.</b>	<b>Creation.</b>	<b>§ 64-11.</b>	<b>Repealer.</b>
<b>§ 64-5.</b>	<b>Membership.</b>	<b>§ 64-12.</b>	<b>When effective.</b>
<b>§ 64-6.</b>	<b>Terms of appointment.</b>		
<b>§ 64-7.</b>	<b>Powers and duties.</b>		

**[HISTORY: Adopted by the City Commission of the City of Royal Oak 9-28-2020 by Ord. No. 2020-11. Amendments noted where applicable.]**

---

#### **§ 64-1. Title.**

This chapter shall be known as and may be cited as the "Royal Oak Environmental Advisory Board Ordinance."

#### **§ 64-2. Statement of purpose.**

This is a chapter to establish the Royal Oak Environmental Advisory Board. The purpose of the Environmental Advisory Board shall be to advise and assist the environmental sustainability efforts of all City staff, boards, and commissions and community members. The Environmental Advisory Board shall make recommendations to the City Commission on all issues concerning City environmental sustainability efforts.

#### **§ 64-3. Definitions.**

For the purpose of the provisions of this chapter, the following words and phrases shall be construed to have the meanings herein set forth, unless it is apparent from the context that a different meaning is intended:

**ENVIRONMENTAL SUSTAINABILITY EFFORTS** — Any policies, programs, projects, initiatives, or events related to the energy waste reduction, climate, air quality, water, waste, resilience, and/or other sustainability issues that improve quality of life and protect the environment.

#### **§ 64-4. Creation.**

In order to encourage and support environmental sustainability efforts in the City of Royal Oak, there is hereby created the Environmental Advisory Board.

#### **§ 64-5. Membership.**

The Board shall consist of 1<sub>12</sub> voting members who have experience or interest in environmental sustainability efforts. One of the 1<sub>21</sub> voting members shall be a member of the City Commission. The

Department of Public Service and Recreation Director or their his/her designee and the Sustainability Manager shall serve as an ex officio nonvoting member of the Board. All voting Board members shall be residents of the City.

#### **§ 64-6. Terms of appointment.**

Board members shall be appointed by the City Commission for terms of three years. The initial Board shall be made up of those serving on the existing Environmental Advisory Committee as of the effective date of this chapter, with members' original appointment terms intact. Members of the Board shall be eligible for reappointment. Term limits, appointments, reappointments, appointment terminations, and vacancy rules are subject to applicable ordinance provisions. Vacancies shall be filled by appointment by the City Commission.

#### **§ 64-7. Powers and duties.**

- A. It shall be the duty of the Board to advise and assist on environmental policies, programs, projects, initiatives, and events that help fulfill established sustainability goals of the City Commission.
- B. It shall be the duty of the Board to assist staff in developing and implementing the sustainability plan and associated action goals that serve to progress the strategy for supporting environmental sustainability efforts in the City of Royal Oak. It shall be the duty of the Board to assist staff in developing an annual report that includes updates and reports progress on any previously established goals. In December of each year, the report shall be submitted to the City Commission for approval.
- C. The Board shall have the authority to raise funds for environmental sustainability efforts through the application of grants, private sponsorships, donations, and other fund-raising strategies, including the authority to interact with donors on behalf of the City of Royal Oak. Funds raised and held by the Board are public funds and shall be reserved for the purposes of this chapter.
- D. The Board shall promote the public awareness of environmental sustainability policies, programs, projects, initiatives, and events in Royal Oak.
- E. The Board shall work with local, state, and national organizations, nonprofits, and businesses to encourage and support environmental sustainability efforts in Royal Oak.

#### **§ 64-8. Organization; meetings; records.**

- A. The Board shall elect a Chair, Vice Chair, Secretary, and any other officers deemed necessary at the beginning of the first meeting of each year. The Chair shall preside over meetings and will serve as a voting member of the Board. The Vice Chair shall perform the duties of the Chair in his/her absence. The Secretary shall record the proceedings of the Board.
- B. At least seven members of the Board shall constitute a quorum for the approval of motions and transaction of its business. An affirmative vote requires at least 51% of the quorum voting in favor. The Board shall adopt rules for the transaction of its business which shall provide for the time and place of holding meetings.
- C. The Board shall meet ~~at least eight times per year on~~ a day and time to be established by the Board.
- D. The business that the Board or subcommittees of the Board may perform shall be conducted in compliance with the State of Michigan Open Meetings Act.<sup>1</sup>

---

1. Editor's Note: See MCLA § 15.261 et seq.

E. The Board shall keep a record of its proceedings and actions. A writing prepared, owned, used, in the possession of, or retained by the Board or subcommittees of the Board in the performance of an official function shall be made available to the public in compliance with the State of Michigan Freedom of Information Act.<sup>2</sup>

**§ 64-9. Severability.**

If any section, subsection, clause, phrase or portion of this chapter is for any reason held invalid or unconstitutional by any court of competent jurisdiction, such portion shall be deemed a separate, distinct and independent portion of this chapter, and such holding shall not affect the validity of the remaining portions of this chapter.

**§ 64-10. Savings.**

All proceedings pending and all rights and liabilities existing, acquired or incurred at the time this chapter takes effect are saved and may be consummated according to the law in force when they are commenced.

**§ 64-11. Repealer.**

All ordinances or parts of ordinances in conflict herewith are hereby repealed only to the extent necessary to give this chapter full force and effect.

**§ 64-12. When effective.**

This chapter shall take effect 10 days after the final passage thereof.

---

2. Editor's Note: See MCLA § 15.231 et seq.

**CITY OF ROYAL OAK**  
**Environmental Advisory Board**  
**Approved Date Approved by City Commission**

**I. NAME**

The name of this board/Commission is the Environmental Advisory Board.

## **II. PURPOSE**

This is a chapter to establish the Royal Oak Environmental Advisory Board. The purpose of the Environmental Advisory Board shall be to advise and assist the environmental sustainability efforts of all City staff, boards, and commissions and community members. The Environmental Advisory Board shall make recommendations to the City Commission on all issues concerning City environmental sustainability efforts and to encourage community participation.

## **III. MEMBERSHIP AND VACANCIES**

- a. The Environmental Advisory Board shall be made up of 11 total members who have experience or interest in environmental sustainability efforts. One of the 11 voting members shall be a member of the City Commission. All voting members shall be residents of the City.
- b. In addition to the 11-voting member, the Department of Public Service and Recreation Director or their designee and the Sustainability Manager shall serve as an ex officio nonvoting member of the Board.
- c. The Environmental Advisory Board may have student members as members of the board in accordance with **Chapter 12**.
- d. In accordance with City Commission policy and appointment process, the board may appoint student representatives to the board who may participate in board meetings as non-voting members.
- e. All members shall be appointed by the City Commission consistent with Chapter 12, Appointments to Advisory Boards, Commissions and Committees, of the City of Royal Oak Code of Ordinances, also known as the Appointments Ordinance.
  - i. The staff ex-officio member shall notify the City Clerk of any vacancies on the Commission who will forward any vacancies to the City Commission for consideration to fill any vacancies.
  - ii. Environmental Advisory Board members shall keep the City Clerk's office informed of changes in their names, addresses, phone number, email address or other basic contact information or anything that might change their status as a board eligible board member.
  - iii. Members appointed to fill a vacancy shall hold office for the original term of the vacancy as set by the City Commission and/or the Appointments Ordinance.
  - iv. Members shall comply with ordinances relating to attendance as described in Chapter 12 of the City Code of Ordinances.

- f. Board members shall be appointed by the City Commission for terms of three (3) years in accordance with 12-5.
- g. In accordance with Chapter 12 of the City of Royal Oak Code of Ordinances, members are limited to three consecutive full terms, unless the City Commission specifically finds by resolution that there is not a qualified individual available to replace the member, or that some other special circumstance(s) exists which supports the reappointment of the serving member.

#### **IV. OFFICERS**

The Environmental Advisory Board shall, at its first meeting of the calendar year, elect a chair, vice chair, secretary, and any other officers deemed necessary.

- a. Chair: The chair shall preside over the meeting and serve as a voting member. The chair will also appoint members to subcommittees and ensures there is a member liaison to other efforts as needed.
- b. Vice-Chair: The vice-chair shall perform the duties of chair in their absence.
- c. Secretary: Perform the duties of the chair and or vice-chair if they are not available.
- d. Staff Ex-Officio: The staff ex-officio member shall serve as liaison between the board and city staff and be responsible for the publication of agendas, minutes and acting as the records custodian for the board.

Term: All officers, except for the staff ex-officio member, shall serve a one (1) year term.

The Environmental Advisory Board has the authority to remove a member from serving as an officer of the board but does not have the authority to remove a member from their appointment to the board. The Environmental Advisory Board may remove a member from being an officer by motion, second, and the concurring affirmative vote of 51% of the quorum members present.

#### **V. NOMINATIONS AND ELECTIONS OF OFFICERS**

The Environmental Advisory Board shall hold the election of officers annually during the first meeting of the calendar year. Any member of the Environmental Advisory Board may be nominated if they meet the requirements for officers, if any, described in these bylaws.

In the meeting prior to the first meeting of the year, anyone seeking nomination for chair, vice-chair, and secretary may declare their interest. This can occur at any time before the meeting when the election occurs.

Members may nominate themselves or any other appointed member of the Environmental Advisory Board and shall have served at least one year on the board prior to being elected as an officer.

An affirmative vote of the 51% of members present for the election shall be required to be elected as an officer.

## **VI. CODE OF CONDUCT**

In general, the use of good judgment, based on high ethical principles, will guide the officers and members of the Environmental Advisory Board with respect to lines of acceptable conduct. The successful operation and reputation of Royal Oak boards and commissions is built upon the principles of fair dealing and ethical conduct of members. Integrity and excellence require careful observance of the spirit and letter of all applicable laws and personal integrity. Failure to abide by these basic principles may result in removal from the Environmental Advisory Board by the City Commission.

## **VII. MEETINGS**

### **a. Meeting Schedule**

Regular Meetings. The Environmental Advisory Board shall adopt a schedule of regular meetings for the next year no later than the final meeting of the current calendar year.

Special Meetings. Special meetings of the Environmental Advisory Board may be called by the chair or by two members of the board in accordance with the Michigan Open Meetings Act. The Environmental Advisory Board shall notify the staff liaison of all special meetings reasonably in advance of the scheduled meeting so that the notice of the meeting shall be timely published as required by the Open Meetings Act.

All meetings of the board shall be subject to the Michigan Open Meetings Act, Act 267 of the Public Acts of 1976, MCL 15.261 et seq.

### **b. Order of Business.** Without precluding the addition of other agenda item categories, all meeting agendas shall, at a minimum, include the following:

1. Call to order
2. Roll Call
3. Agenda Approval
4. Public Comment
5. Minutes
6. Business Items
7. Adjournment

### **c. Quorum.** A minimum of seven (7) members of the Environmental Advisory Board shall constitute a quorum for the purpose of motions and the transaction of business.

- d. Minutes. The Secretary shall be responsible for taking minutes at board meetings. In his/her absence, the staff ex-officio shall be responsible for taking minutes. The staff ex-officio shall be responsible for maintaining minutes and other records of meetings in accordance with applicable city codes, regulations, and/or policies.
- e. Action. All action by the Environmental Advisory Board shall be made by motion adopted by the concurring affirmative vote of at least 51% of quorum present unless otherwise required by ordinance or state ordinance.
- f. Public Comment. The board shall follow the city commission's standard procedure for public comment. The chair has the ability to extend the three minutes per person limit.

## **VIII. PARLIAMENTARY AUTHORITY**

Parliamentary authority for the Environmental Advisory Board is governed by Robert's Rules of Order. In case of conflict between these bylaws and the Robert's Rules of Order, these bylaws control. In case of conflict between these bylaws and any city ordinance, the city ordinance controls. In case of conflict between city ordinance and state law, the state law controls.

## **IX. ADOPTION OR AMENDMENT OF BYLAWS**

- a. The Environmental Advisory Board shall make a recommendation to adopt the bylaws to the Royal Oak City Commission. A recommendation to adopt, modify or repeal the bylaws shall be approved by two-thirds of the entire membership of the Environmental Advisory Board.
- b. The Royal Oak City Commission has the authority to approve, amend, or repeal these bylaws.
- c. The Environmental Advisory Board shall review these bylaws annually at its second meeting in the calendar year. If there are no proposed amendments then no action is needed by the board and the existing bylaws will remain in effect.

## **X. GENERAL PROVISIONS**

No member of the board shall order or instruct city staff members to perform any service or duty. If a board feels that they are inadequately supported they can address that through the staff liaison and the city manager.

## **XI. MICHIGAN FREEDOM OF INFORMATION ACT COMPLIANCE MANDATORY**

The Environmental Advisory Board shall comply with the Michigan Freedom of Information Act (FOIA) [Public Act 422 of 1976, MCL § 15.231 et seq.] and the city's current FOIA policy. The City Clerk and Human Resource Director shall assist the board in compliance.

## **XII. MICHIGAN OPEN MEETINGS ACT COMPLIANCE MANDATORY**

The Environmental Advisory Board shall comply with the Michigan Open Meetings Act (OMA) [Public Act 267 of 1976, MCL § 15.261 et seq.].

## **XIII. ACCESSIBILITY**

Anyone planning to attend a public meeting of the Environmental Advisory Board who has need of special assistance under the Americans with Disabilities Act (ADA) is asked to contact the City Clerk's office at 248-246-3050 or email [CityClerk@romi.gov](mailto:CityClerk@romi.gov) at least two (2) business days prior to the meeting so that the city can support the full participation of members of the community.



Royal Oak  
**ENVIRONMENTAL  
ADVISORY BOARD**

**Environmental Advisory Board**  
203 S Troy Street  
Royal Oak, MI 48067  
[www.romi.gov](http://www.romi.gov)

**City Commissioner Report**

**TO:** Environmental Advisory Board  
**FROM:** Amanda Herzog, PhD, City Commissioner  
**DATE:** September 19, 2024  
**SUBJECT:** September Update Report

---

**September 23<sup>rd</sup> City Commission Meeting**

- Jeffrey Price, US Public and Government Liaison, will give an update presentation on the Canadian National Railway - Safety, Operational, and Infrastructure. This was initiated from the safety concerns with the 11-mile viaduct. The goal is to build a respectful relationship where we can work together on safety, walkability, and maintaining vibrant neighborhoods and downtown.
- Second Reading: Proposed Ordinance Amendment – High School Student Appointments to Boards and Commissions. This allows students to be voting members.
- First Reading: Proposed Ordinance Amendment – Standards for Demolition. This will require signage for commercial and industrial demolition activities, similar to the residential ordinance approved by the City Commission on August 26, 2024.

*More details in the September 23<sup>rd</sup> City Commission Meeting Agenda (attachment).*

**Materials Management Committee**

On January 8, 2024, the Director of the Michigan Department of Environment, Great Lakes & Energy (EGLE) initiated the process for each county to write a Materials Management Plan, under legislation changes to MI P.A. 451, Part 115, which became effective March 29, 2024. These plans will replace the existing county Solid Waste Management Plans and transition from a solid waste disposal focus to a new materials management system that will be geared toward seeking alternatives to landfilling, reducing environmental impacts, contributing to a circular economy, and identifying the highest and best use for all materials including recyclables, organics, and solid wastes. *Attached: Materials Management Plan Overview Presentation.*

**City Manager Search**

City Commissioners will meet, September 20<sup>th</sup> at 6p in the Police Department Community Room, for the consideration of invitations to candidates for public interviews for the City Manager position.

## **Michigan Municipal League Convention 2024 (September 11-13)**

Presentations of interest to the Environmental Advisory Board (*attached MML Convention Presentations*).

- An Honest Look at Creating Thriving Communities – Daniel P. Gilmartin. Take away: creating thriving communities includes sustainability.
- Reducing or Eliminating Greenhouse Gas Emissions from Municipal Operations and Beyond – Melissa Marsh and Michelle Peters. Take away: Regional collaboration. Baseline data is important for reviewing and revising! Find a common way to measure baseline, one owner and leaders in each department to champion, EAB cheerleader/celebrate in the community.
- Waste Not, Want Not: Eliminating Food Waste & Alleviating Hunger – Danielle Todd. Take away: GO BIG-curbside composting! Baseline data is the first step and important. Contamination will always be an issue but shouldn't be a barrier. Education will help with contamination – food only, NO compostable materials. It confuses people and leads to “wish composting”.

### **Upcoming Activities:**

- **September 23<sup>rd</sup>** City Commission Meeting
- **September 25<sup>th</sup>** SEMCOG Healthy Climate Taskforce Meeting
- **October 2<sup>nd</sup>** Oakland County Materials Management Planning Committee Meeting
- **October 3<sup>rd</sup> & 4<sup>th</sup>** 2024 Michigan Sustainability Conference
- **October 11<sup>th</sup>** SEMCOG GREEN Implementation Team Meeting
- **October 14<sup>th</sup>** City Commission Meeting
- **October 22<sup>nd</sup>** Oakland County Materials Management Planning Committee Meeting

## Sustainability Manager's Update Date: 09/19/2024

### Upcoming Community Events

Nextcycle Fall Showcase – Royal Oak will be one of the communities pitching on October 2<sup>nd</sup>. We have been working with Nextcycle, RRS, Michigan Recycling Coalition, and EGLE on innovative recycling and food waste collection pilots for business districts, events, and city buildings. The pitch will focus on hurdles related to expanding recycling and composting collection streams, and potential solutions.

Our pitch is scheduled sometime between 1:30 and 3 PM.

Link - <https://nextcyclemichigan.com/2024-fall-showcase>

### Battle of the Buildings

The Michigan Battle of the Buildings is an awards and recognition program for energy use reduction open to all Michigan area commercial, industrial & multi-family buildings. The program is a way to encourage energy-efficient practices in buildings across the state and to instill a spirit of friendly competition among the area's building owners and operators. There is no cost to enter the competition.

Update:

- Working on getting Michigan Battle of the Buildings under contract for Benchmarking all city buildings and community buildings participating in Battle.
- Adjusting CEM grant budget to create a Green Fund for Battle Participants
- A flyer for Battle of The Buildings has been created - Attached
- The competition is slated to launch in October/November

Next steps:

- Approve contract for Michigan Battle of the Buildings
- Meet with EGLE to adjust grant budget to include a Green Fund for participants
- Bring contact and entering city buildings to commission for approval
- Meet with stakeholders to help promote the competition
- Follow the necessary pathway for the inclusion of city buildings
- Host Informational Session (October)
- Build out the website on the city page and Michigan Battle of the Building page
- Finalize the audits that will be provided
- Finish benchmarking city buildings

Anticipated Relevant Data:

- Electrical and gas data for all city buildings
- Potential to gather electrical and gas Data for competitions

- Benchmarking against other buildings with similar use
- Future – Waste and water data

#### S-CAP Goal Alignment:

- 1.1.1. Collect and report annual, community-wide energy consumption
- 1.1.6. Create an energy reduction competition initiative
- 1.1.8. \*\*Engage the industrial sector in utility-sponsored energy efficiency programs
- 1.3.3. Conduct a feasibility study of all municipal buildings' ability to achieve sustainable certifications

### GHG Emissions and End-of-Year Sustainability Report

#### Update:

Learning ClearPath and will start inputting data next week. We have data for many of the sources.

#### Next steps:

- Schedule a meeting with Brock and Paul to start entering data
- Get gas data from consumers
- Survey city employees for mileage
- Determine pathways for sources that remain - Currently have City utilities, DTE community data, waste tonnage reports. Sources needed include gas data for community, city fleet gasoline and diesel, work-related travel emissions from finance, street light data,
- Enter data into ClearPath
- Build on draft of Sustainability Report.

#### Anticipated Relevant Data:

- Electrical and gas data for all city buildings
- Electrical and gas data for all community
- Waste Data
- Scope 1 Fuel Data for city and community
- Scope 1 and 2 Emissions data by source
- GHG Emissions vs. 2018

#### S-CAP Goal Alignment:

- 1.1.1. Collect and report annual, community-wide energy consumption
- 1.3.3. Conduct a feasibility study of all municipal buildings' ability to achieve sustainable certifications

## Solar

### Update:

The Library Roof needs to be rebid to factor in the Responsible Contractor Ordinance. We will be issuing the roof at the Salter Center at the same time

Finalizing the RFP to hire a solar contractor to assist in the planning of each project and to help with the D.O.E. grant funding paperwork.

### Next steps:

- RFP for Library Roof
- RFP for Salter Center Roof
- RFP for Solar Consultants and Solar Projects
- Finish D.O.E. Paperwork

### Anticipated Relevant Data:

- No data at this time
- Potential Data – DTE energy reduction, solar efficiency data, return on investment

### S-CAP Goal Alignment:

- 1.2.3. Install a municipal solar and battery storage demonstration project
- 1.5.2. Develop a municipal facility as an emergency resilience hub with solar and storage to ensure 100% reliable energy
- 1.5.4. Evaluate access to the Salter Center as the current emergency hub

## EV Charging

### Update:

- Toured Parking Garages, City Hall, and Senior Center to prepare for electrical needs for EV Chargers. Noted electrical grid issues at all locations.
- DTE Engineer provided EV Charger readiness check on over 20 location in Royal Oak for public chargers. Noted electrical grid issues at most locations
- Changing
- Red E contract for the Rip and Replace is currently with the city attorney's office

### Next steps:

- Start EV Charging Project at the Senior Center
- Order the Senior Center Shuttle once grant funding is finalized
- Finalize Red E contract for Commission Meeting

#### Anticipated Relevant Data:

- No data at this time
- Future Data – Hours of use for fleet and public, average cost per session, average length of session, operational down time

#### S-CAP Goal Alignment:

- 2.3.1. Install EV chargers at appropriate municipal locations
- 2.3.2. \*\*Convert municipal fleet to EVs or other alternative fuel vehicles as appropriate facilities

### Composting/waste

#### Update:

- Composting at Farmers Market is filling between eight and nine 64-gallon bins weekly. Last week, we diverted approximately 2067 lbs. of materials and had over 130 households participate. We are now getting compost from 7 of the vendors in the market including five farms, the smoothie bar, and the coffee bar
- Next Green Teams Meeting is Sept. 23<sup>rd</sup>. Goal is to have a plan for each school before Oct 1.
- All schools have comprehensive recycling (same as households) through SOCRRA. Need to disperse this information to all schools.
- Visited Oakland Elementary for a lunch shift. Each student has 8-10 pieces of single use plastic on their trays. Need to work with Chartwells to reduce this number. Chartwell has brought in compostable boats, trays, and 5.5 deli cups.

#### Next steps:

- Pitch Royal Oak waste reduction strategy at Nextcycle on Nov 2<sup>nd</sup>.
- Finalize Green Teams at all nine schools
- Roll out composting and assist Green Teams in finding a permanent pathway for a student-led program at each school.

#### Anticipated Relevant Data:

- 25,000 lbs (over 21 Tons) have been diverted to date.
- Over 125 households participated last week.

#### S-CAP Goal Alignment:

- 3.1.1. \*\*Develop educational recycling & composting programs for the residential and commercial sectors
- 3.1.2. Create a multimedia campaign for recycling & composting

- 3.1.5. \*\*Develop and implement municipal waste reduction policies
- 3.3.1. \*\*Research viability of residential food composting programs
- 3.3.2. \*\*Develop a program to work with restaurants and grocery stores on composting options
- 3.3.2. \*\*Develop a program to work with restaurants and grocery stores on composting options
- 3.4.1. Create a community-wide education campaign to manage rat population without the use of rodenticides

## Marketing

Update:

- 35 people attended the Native Plant workshop. Lots of great conversations. Treva did a nice job. CRWS was also present.
- Exploring the development of a sustainability section of the city website to focus on storytelling and examples. The purposed purpose of this site would be for storytelling and sharing of sustainability examples, best practices, and information that would benefit residents, and businesses. Examples include
  - Woody's Net Zero home progress
  - Program examples for Rain Smart, Michigan Saves, energy efficiency, solar projects, etc.
  - Interviews with people in Royal Oak doing cool sustainability work

**SOCRRRA TONNAGE ANALYSIS**  
**August 2024**

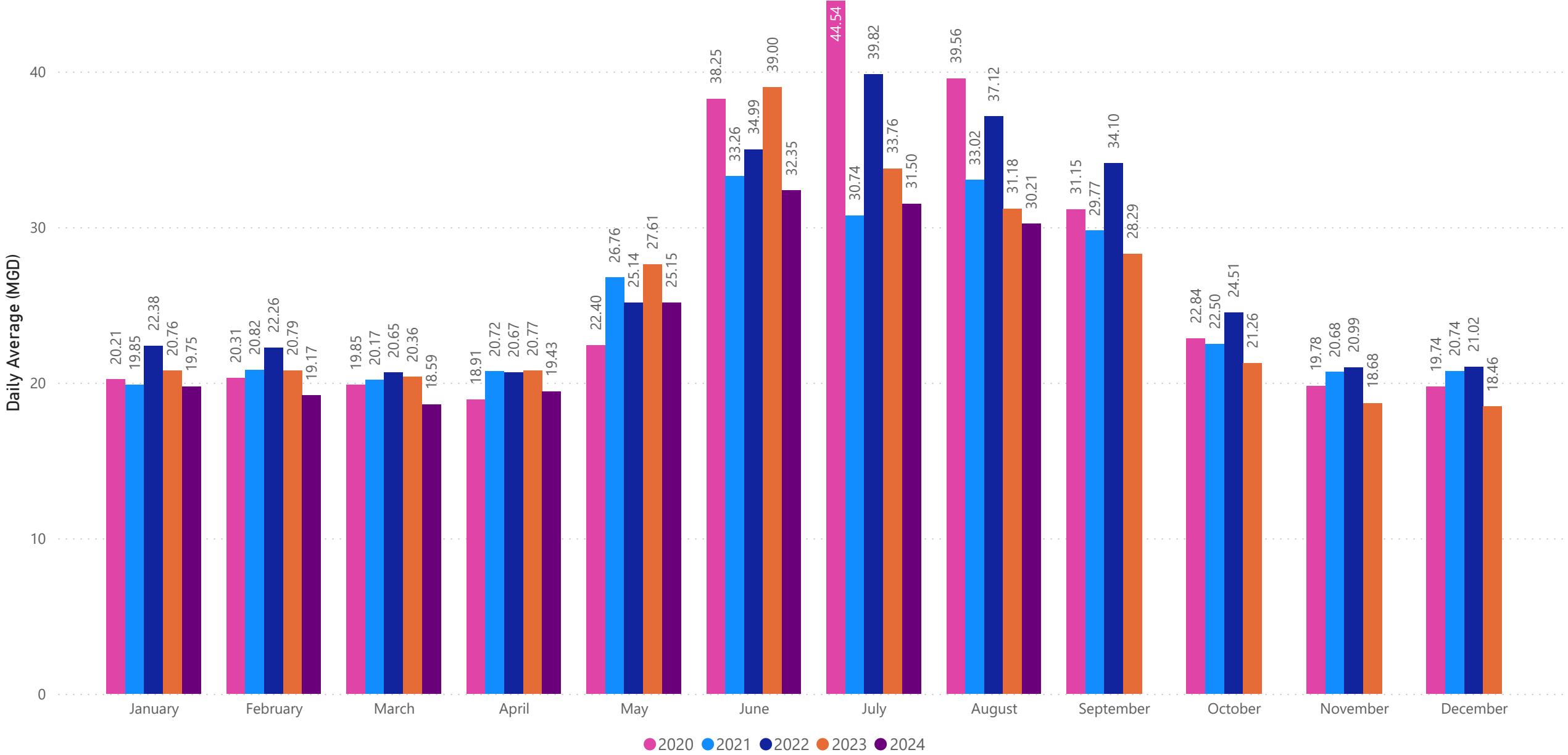
Municipality	MSW			Compost			Recyclables			Total		
	2022	2023	2024	2022	2023	2024	2022	2023	2024	2022	2023	2024
Berkley	520.7	535.2	579.7	138.8	132.9	148.8	121.0	121.0	128.1	780.5	789.1	856.5
Beverly Hills	353.3	327.6	294.7	160.0	186.3	146.3	106.0	89.8	81.1	619.3	603.6	522.1
Birmingham	810.6	908.7	842.6	144.2	173.3	169.2	198.3	199.1	193.3	1,153.0	1,281.1	1,205.1
Clawson	447.9	491.8	344.7	137.5	167.5	122.5	92.4	82.8	64.4	677.8	742.0	531.6
Ferndale	922.1	876.1	824.9	205.0	211.3	171.3	161.9	160.6	137.1	1,289.0	1,248.0	1,133.3
Hazel Park	515.9	693.2	529.1	100.0	132.0	205.0	74.8	83.1	94.9	690.7	908.3	829.0
Huntington Woods	225.9	210.8	152.0	67.5	80.0	62.5	79.2	69.2	51.4	372.6	360.0	265.9
Lathrup Village	174.2	127.1	135.1	50.0	41.3	40.0	29.8	22.3	22.5	254.0	190.6	197.7
Oak Park	973.0	964.2	890.5	175.5	132.0	220.0	103.1	100.2	89.5	1,251.7	1,196.4	1,200.0
Pleasant Ridge	105.7	72.7	72.8	43.8	42.5	36.3	30.2	22.5	23.1	179.6	137.8	132.1
Royal Oak	2,074.7	2,017.5	1,938.3	705.0	817.7	541.3	463.4	461.2	439.2	3,243.1	3,296.4	2,918.8
Troy	2,631.0	2,749.2	2,442.7	828.8	958.3	840.0	517.4	524.1	455.2	3,977.2	4,231.6	3,737.9
	9,755.0	9,974.0	9,047.2	2,755.9	3,075.0	2,702.9	1,977.4	1,935.9	1,779.9	14,488.3	14,984.8	13,530.0
Other Customers	4,694.4	4,267.6	4,044.8	-	-	-	620.8	968.4	757.3	5,315.2	5,236.1	4,802.1
Authority	14,449.4	14,241.6	13,092.0	2,755.9	3,075.0	2,702.9	2,598.2	2,904.3	2,537.1	19,803.5	20,220.9	18,332.0

## SOCRRA TONNAGE PERCENTAGES

August 2024

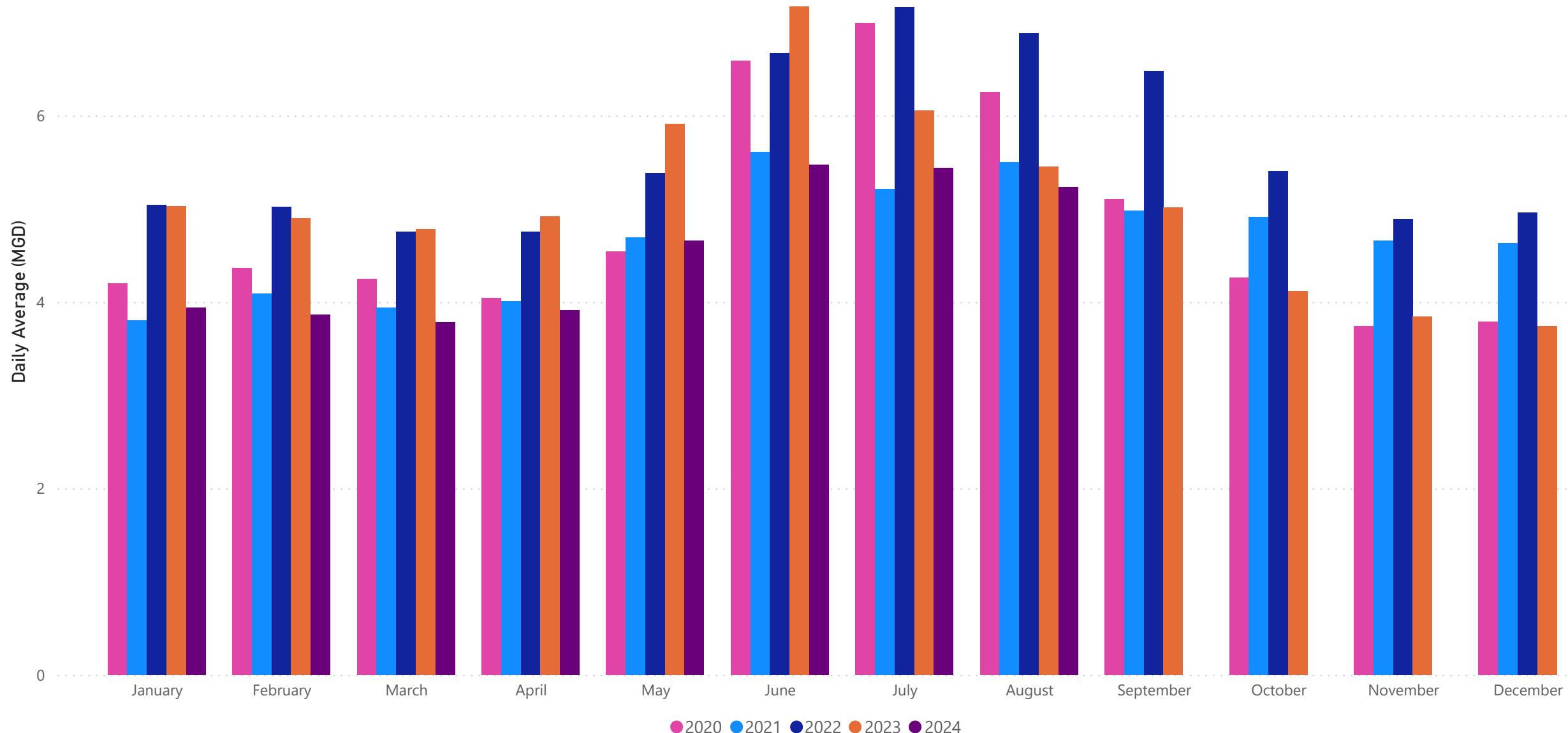
	<b>MSW</b>	<b>Compost</b>	<b>Recyclables</b>
	Percentage of City's	Percentage of City's	Percentage of City's
	Total Waste Stream	Total Waste Stream	Total Waste Stream
<b>Municipality</b>			
Berkley	67%	18%	15%
Beverly Hills	56%	28%	16%
Birmingham	70%	14%	16%
Clawson	65%	23%	12%
Ferndale	73%	15%	12%
Hazel Park	63%	25%	12%
Huntington Woods	60%	22%	18%
Lathrup Village	68%	20%	12%
Oak Park	74%	18%	8%
Pleasant Ridge	55%	27%	18%
Royal Oak	66%	19%	15%
Troy	65%	23%	12%

## SOCWA Average Daily Usage (MGD) by Month



## City of Royal Oak Average Daily Usage (MGD) by Month

8



2018

2019

2020

2021  
Page 25 of 26

2022

2023

2024

SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY PRECIPITATION - INCHES (WEBSTER PUMPING STATION)													
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1986	1.68	2.73	1.74	1.91	2.10	4.62	2.79	3.10	5.48	2.48	0.95	1.95	31.53
1987	1.55	0.58	1.90	2.03	1.61	3.18	4.30	5.31	2.30	2.00	2.80	2.80	30.36
1988	0.60	1.53	0.40	1.40	1.00	0.55	2.80	2.05	3.25	3.43	2.61	0.80	20.42
1989	0.71	0.35	1.30	1.25	2.22	3.85	2.15	1.39	5.53	1.45	2.80	0.50	23.50
1990	1.52	4.18	1.40	1.95	3.00	2.25	2.03	4.30	3.90	3.70	2.35	3.40	33.98
1991	0.90	0.45	1.37	1.65	5.46	1.79	1.92	3.36	0.72	3.64	2.65	2.05	25.96
1992	1.35	1.24	2.98	2.75	0.85	2.05	6.40	2.30	3.10	1.95	4.20	1.80	30.97
1993	3.64	0.82	1.15	2.80	1.20	4.91	2.05	2.85	5.85	1.75	1.50	0.45	28.97
1994	2.15	0.55	2.20	2.70	0.70	5.21	1.30	2.77	1.20	2.33	3.02	2.20	26.33
1995	1.32	0.85	1.15	2.05	2.80	2.25	4.45	4.15	1.00	3.25	3.05	0.95	27.27
1996	1.45	1.30	1.00	3.75	3.30	4.20	1.85	0.40	4.45	2.20	2.15	1.30	27.35
1997	1.45	2.75	3.15	0.85	4.55	1.55	2.20	1.90	3.45	2.15	0.50	1.30	25.80
1998	2.80	2.85	4.60	2.86	1.65	1.75	2.80	6.85	1.00	2.05	1.00	1.45	31.66
1999	3.75	1.30	0.55	3.85	2.80	4.55	2.65	1.40	2.60	0.60	1.45	2.70	28.20
2000	1.30	0.50	1.05	3.20	4.25	5.00	4.10	2.55	4.35	2.00	1.05	2.70	32.05
2001	0.12	2.70	0.30	2.98	4.50	2.30	2.10	1.65	4.00	6.65	1.70	1.55	30.55
2002	1.55	1.45	1.10	0.65	1.90	1.05	4.35	0.70	2.85	0.96	2.00	0.90	19.46
2003	0.25	0.20	1.25	2.05	4.70	4.65	0.50	2.40	3.20	2.10	3.60	2.30	27.20
2004	2.60	0.40	2.40	0.05	6.80	2.30	2.70	3.70	0.80	1.65	2.45	3.00	28.85
2005	2.50	3.10	0.55	1.70	0.70	1.50	3.20	0.65	2.95	0.30	3.95	1.60	22.70
2006	2.50	0.95	2.95	2.05	5.20	3.30	1.60	1.90	2.56	2.90	3.00	3.40	32.31
2007	3.30	0.65	4.90	2.25	2.60	2.75	1.00	4.55	1.20	2.35	1.90	4.75	32.20
2008	2.40	3.90	1.90	0.40	1.95	3.85	3.05	0.27	6.55	1.80	3.15	4.05	33.27
2009	2.85	1.95	6.31	6.85	3.35	3.20	1.55	4.00	1.56	2.85	0.20	2.80	37.47
2010	0.80	1.65	0.67	1.80	4.30	3.40	4.95	0.25	2.70	2.20	4.30	0.70	27.72
2011	2.20	5.75	3.20	5.20	5.40	2.40	3.40	3.30	7.80	3.20	5.60	3.10	50.55
2012	2.60	0.40	2.10	0.50	1.10	0.90	3.80	4.30	2.00	1.70	0.72	0.00	20.12
2013	1.90	2.10	1.00	5.10	2.10	4.60	3.00	3.30	2.00	3.10	2.40	3.60	34.20
2014	1.30	0.70	0.80	2.60	2.40	3.10	2.70	7.20	2.20	1.70	2.40	1.20	28.30
2015	2.60	1.20	0.40	0.70	3.00	3.40	1.30	2.10	1.30	1.80	1.30	1.50	20.60
2016	0.93	0.70	2.54	0.98	1.59	0.50	2.85	2.80	4.49	1.80	1.35	1.70	29.28
2017	2.30	2.00	2.80	2.40	2.90	0.70	1.10	2.30	0.70	5.70	4.30	1.50	28.70
2018	1.43	3.25	2.01	2.20	5.25	1.14	1.08	1.36	4.34	5.37	2.71	1.60	31.74
2019	1.52	2.03	1.96	3.73	3.59	4.11	7.15	3.04	4.84	4.97	1.52	2.60	41.06
2020	4.21	1.21	3.41	1.44	3.25	2.22	2.46	7.31	2.72	3.27	2.49	5.30	39.29
2021	0.89	0.42	2.34	1.18	3.63	8.06	7.15	5.64	6.00	6.20	2.39	4.30	48.20
2022	2.43	1.69	2.52	2.66	3.69	2.71	3.06	4.93	1.89	0.53	1.28	2.60	29.99
2023	1.48	1.76	1.63	3.92	1.07	4.77	4.25	5.47	1.42	3.14	1.19	3.40	33.50
AVG.	1.87	1.63	1.98	2.28	3.01	2.97	2.91	3.04	3.16	2.65	2.35	2.17	30.22
2024	6.34	1.63	1.74	2.5	1.37	7.84	7.45	6.47					35.34