

# M-NCPPC, Montgomery County

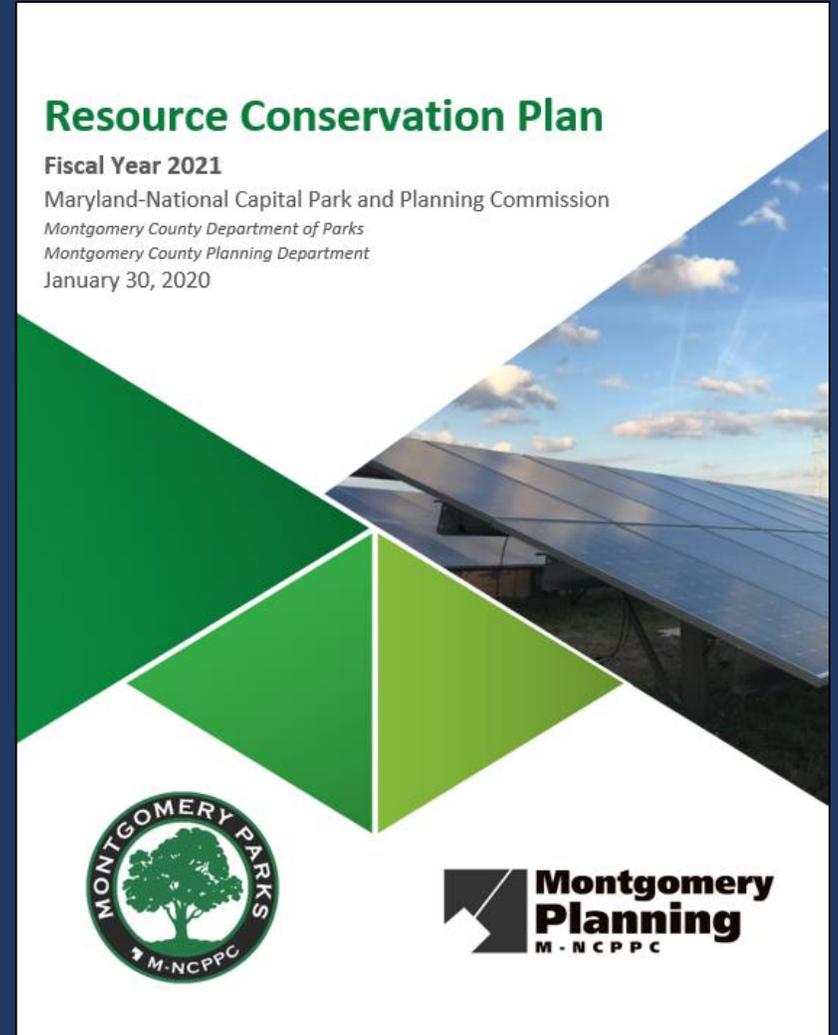
## FY21 Resource Conservation Plan (RCP)

### 2019 Annual Business Recycling & Waste Reduction Report



# Resource Conservation Plan

- Presented for approval to M-NCPPC Planning Board, the County Executive Committee, and County Council Transportation and Environment Committee
- Summarizes the programs and projects implemented to improve operations and maintenance practices to efficiently use electricity, natural gas, propane, and water to fulfill the mission of the Commission.



# Sustainability Plan

- Updated for FY20/FY21
- **Priority Focus Areas**
  - Waste Reduction and Recycling
  - Reduction of Carbon Footprint (Energy, Fleet)
  - Walkable/Bikeable Communities
  - Land Use
- All work discussed in the Resource Conservation Plan and Business Recycling Report contribute to the achievement of sustainability goals outlined in the plan.

Maryland National Capital Park and Planning Commission



## Sustainability Plan

FY20 - FY21

Montgomery County Department of Parks  
Montgomery County Department of Planning



# Utility Budget/Costs: Results, FY19

	FY19 Cost	FY19 Budget	Difference
<b>Parks Department</b>	\$2,275,737	\$2,157,115	(\$118,622)
<b>Planning Department</b>	\$193,206	\$225,223	\$32,017
<b>Enterprise</b>	\$849,959	\$1,082,200	\$232,241
<b>Property Management</b>	\$23,046	\$12,000	(\$11,046)
<b>Bi-County</b>	\$73,545	\$99,968	\$26,423
<b>Total:</b>	<b>\$3,415,494</b>	<b>\$3,576,506</b>	<b>\$161,012</b>

FY19: July 2018 through June 2019

# Accomplishments at a Glance: FY19

Projects in FY19 were completed across 28 park sites/facilities

- **8 sites received upgrades to LED lighting fixtures**

- Interior and exterior facility lighting incl. parking lot/walkway
- Athletic Courts and Fields

- **14 sites received energy efficiency upgrades**

- High efficiency HVAC systems replacement
- Improved insulation
- Installation of window film
- Temperature modulation

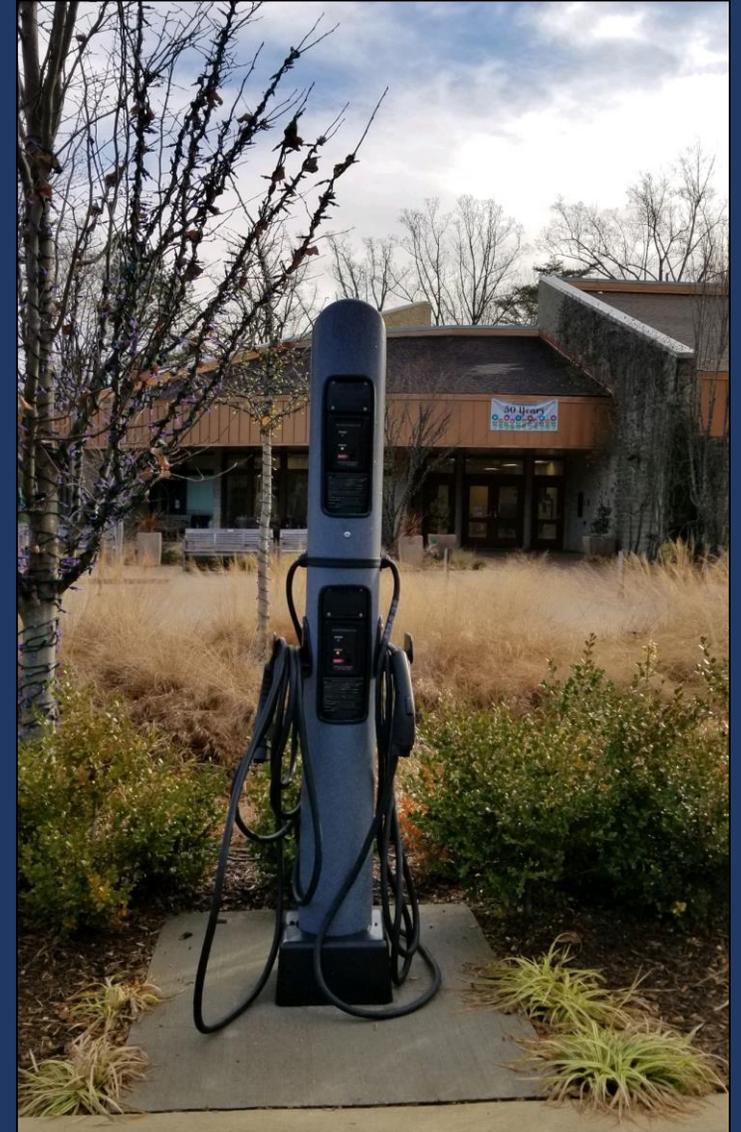
- **11 sites received plumbing fixture upgrades**

- Installation of frost-free drinking fountains
- High efficiency hot water heaters
- Low flow toilets and sinks



# Accomplishments at a Glance: FY19

- A 1.8 kW rooftop solar system was installed at Olney Mill Neighborhood Park.
- Electric vehicle charging station installed at Brookside Gardens for public use.



# Utility Budget/Costs (to date): FY20

	FY20 Budget	Cost as of 12/20/2019	FY20 Annual Projection*	Difference (FY20 Budget – Projection)
<b>PARKS DEPARTMENT</b>	\$2,238,733	\$677,639**	\$2,196,900	\$41,833
<b>PLANNING DEPARTMENT</b>	\$211,590	\$69,464	\$192,300	\$19,290
<b>ENTERPRISE</b>	\$922,000	\$351,870	\$910,000	\$12,000
<b>PROPERTY MANAGEMENT</b>	\$14,500	\$1,698	\$28,700	(\$14,200)
<b>BI-COUNTY</b>	\$91,605	\$35,200	\$73,500	\$18,105
<b>TOTAL:</b>	<b>\$3,478,428</b>	<b>\$1,135,871</b>	<b>\$3,401,400</b>	<b>\$77,028</b>

FY20: July 2019 through June 2020

Data obtained from M-NCPPC General Ledger and EnergyCAP

\*\* Adjustments made to account for reimbursement/credits

# Project Status to Date: FY20

**Projects at 27 sites are completed or currently in process.**

- **7 sites received upgrades to LED lighting fixtures**
  - Interior and exterior facility lighting incl. parking lot/walkway
  - Athletic Courts
- **10 sites received energy efficiency upgrades**
  - High efficiency HVAC systems replacement
  - Improved insulation
  - Temperature modulation
  - Lighting control automation
- **19 sites received plumbing fixture upgrades**
  - Installation of rainwater harvesting systems
  - Installation of frost-free drinking fountains
  - High efficiency hot water heaters
  - Low flow toilets and sinks
  - Water conserving technology in field irrigation systems



# Project Status to Date: FY20



**Black Hill Regional Park Restroom Building**

Rooftop solar for power and rainwater harvesting system for toilet flushing

**Vehicle and Equipment Charging**

M-NCPPC vehicle fleet charging stations and electric mower charging infrastructure

# Project Status to Date: FY20

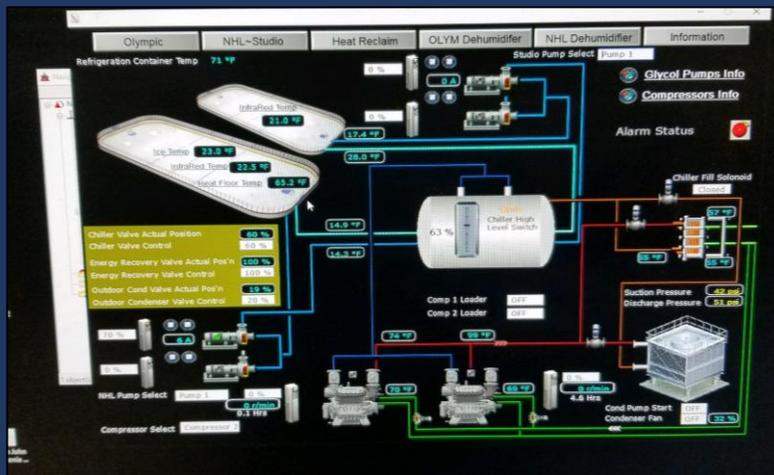


## Maydale Nature Classroom



# Project Status to Date: FY20

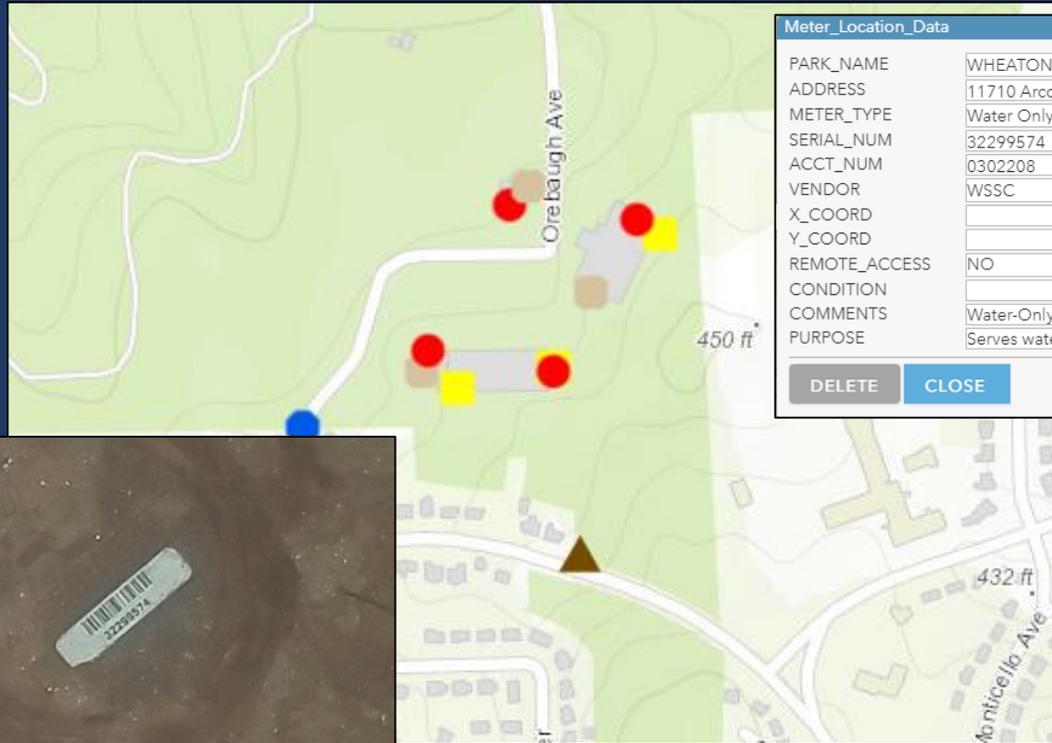
## Cabin John Ice Rink



# Energy/Utility Audit: Meter Collection

The comprehensive review of utility meters on parkland continues into FY20/FY21.

WSSC	Wheaton Reg Athletic Area / MC-M28 / 11710 Orebaugh Ave (11710 Arcola Ave.)	0302208	32299574	MC-M28-31755784	water/sewer	WSSC	Y
Electric	Wheaton Reg Indoor Tennis / MC-M31 / 11715 Orebough Ave	55012684670	KZD350868029	MC-M31ELEC	MC-M31 2035207808	Potomac Electric Power Company	Y
Electric	Wheaton Reg Indoor Tennis / MC-M31 / 11715 Orebough Ave	55020643270	X8D341207320	MC-M31-K20QRY301	elect tennis indoor/outdoor ww	Potomac Electric Power Company	Y
Natural Gas	Wheaton Reg Indoor Tennis / MC-M31 / 11715 Orebough Ave	220000760359	U64735	MC-M31ELE	MC-M31 2547000105	WASHINGTON GAS - MD DIVISION	Y
Natural Gas	Wheaton Reg Indoor Tennis / MC-M31 / 11715 Orebough Ave	220000769913	T36626	MC-M31-ELE	MC-M31 2547014718	WASHINGTON GAS - MD DIVISION	Y
WSSC	Wheaton Reg Indoor Tennis / MC-SETENNIS / (11715 Orebaugh Ave.)	4852943	70313044	MC-SETENNIS-WAT01	Wheaton Reg Indoor Tennis-Wat01	WSSC	Y



Meter\_Location\_Data

PARK\_NAME: WHEATON ATHLETIC AREA

ADDRESS: 11710 Arcola Ave Wheaton MD 20902

METER\_TYPE: Water Only

SERIAL\_NUM: 32299574

ACCT\_NUM: 0302208

VENDOR: WSSC

X\_COORD:

Y\_COORD:

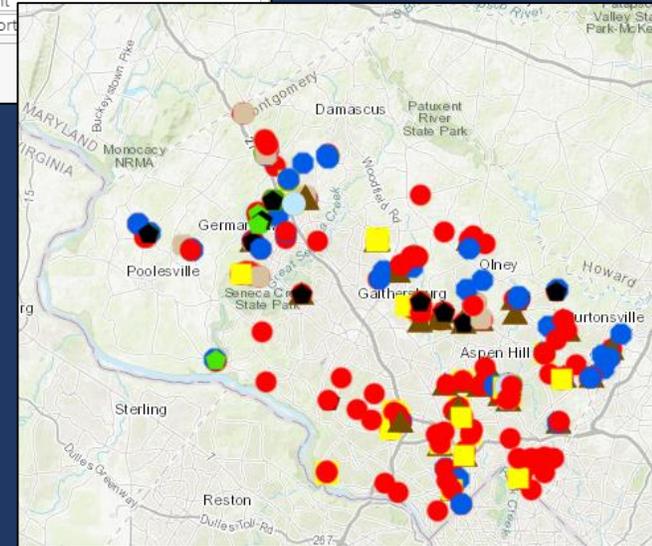
REMOTE\_ACCESS: NO

CONDITION:

COMMENTS: Water-Only Account

PURPOSE: Serves water to Sport

DELETE CLOSE



# Goals for FY21

## Energy Conservation/Efficiency:

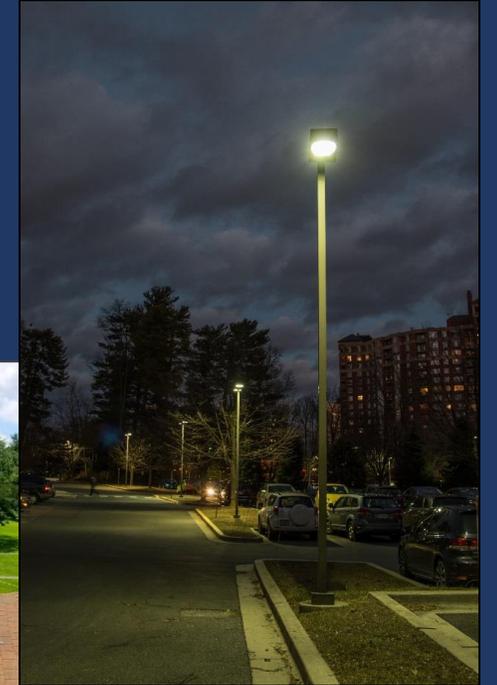
- Improve building envelope assessments at start of projects.
- Continue making progress retrofitting interior and exterior lighting to LED technology.
- Continue upgrading to high-efficiency appliances and equipment.

## Renewable Energy:

- Continue to identify and implement small-scale solar PV projects.

## Water Conservation/Efficiency:

- Continue upgrading to low-flow technology.
- Implement appropriate opportunities for stormwater and/or graywater harvesting reuse projects.



# Proposed Utility Budget, FY21

	Proposed FY21 Budget
<b>PARKS DEPARTMENT</b>	\$2,250,522
<b>PLANNING DEPARTMENT</b>	\$52,897
<b>ENTERPRISE</b>	\$960,700
<b>PROPERTY MANAGEMENT</b>	\$14,500
<b>BI-COUNTY</b>	\$82,075
<b>WHEATON HQ</b>	\$764,659
<b>TOTAL:</b>	\$4,125,353

**The Proposed budget for FY21 assumes the following:**

Department of Parks Headquarters (Parkside) and the Department of Planning (MRO) will move to the new Wheaton Headquarters Building.

FY21: July 2020 through June 2021

# Recycling & Solid Waste Management

M-NCPPC Annual Recycling &  
Solid Waste Management Report  
to Montgomery County Division  
of Solid Waste Services



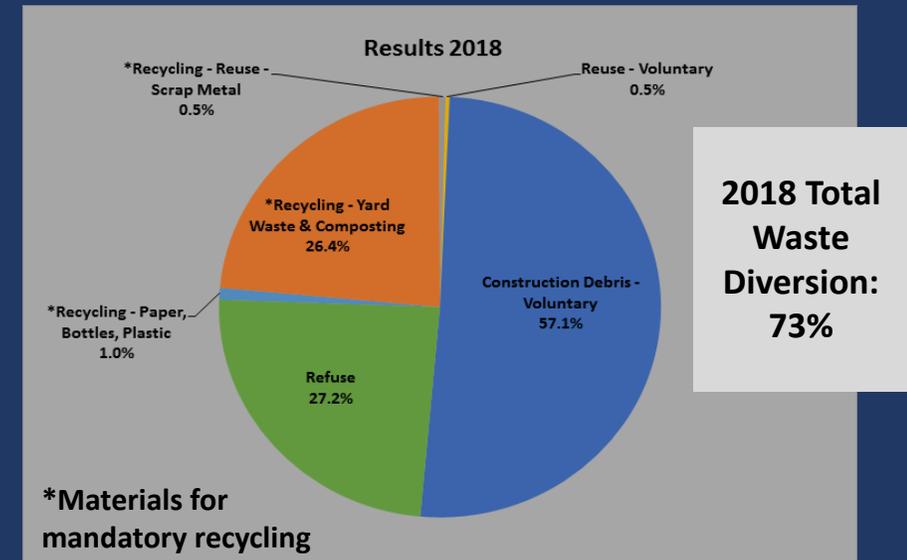
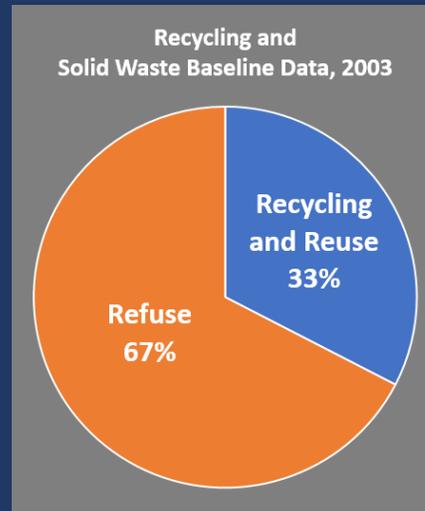
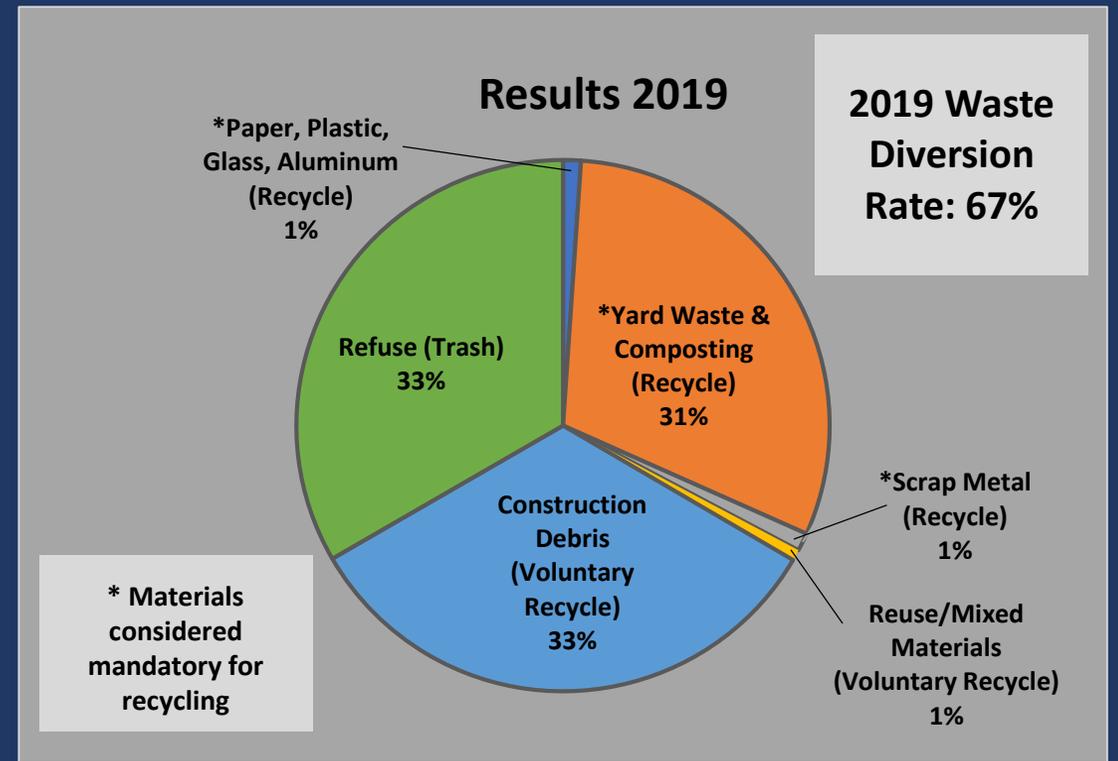
# Recycling & Solid Waste Management: Background

- Beginning in March 1993 Montgomery County established ER 109-92AM making business recycling mandatory
- In February 2005, ER 109-92AM added additional materials to be recycled, clarified roles and responsibilities of the businesses and added collector / hauler requirements
- Montgomery County established goal to reduce waste and recycle 70% by 2020
- M-NCPPC disposes of trash and recycling through a mix of self-hauling and use of vendors.



# 2019 Program Progress

- **Total Waste Diversion Rate: 67%**
- Less recycling of mixed paper/commingled materials, yard trim, concrete and asphalt.
- Increase in scrap metal recycling and diversion of voluntary materials to recycling.
- Decrease in volume of material disposed as refuse (trash).



# Recycling & Solid Waste Management



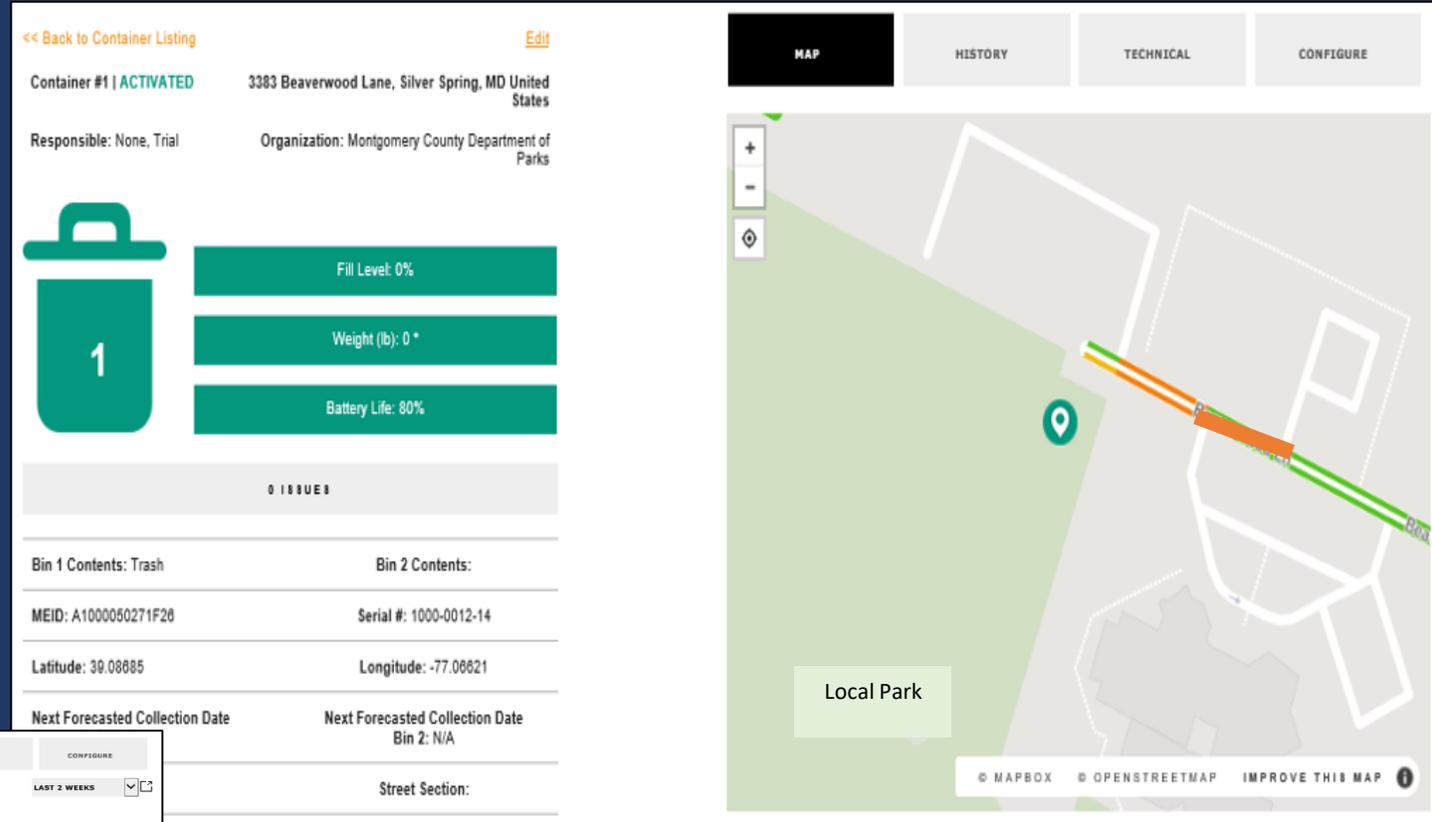
Brookside Gardens



Waste reduction involves being thoughtful about material acquisition and material management but also includes **going the extra mile to divert materials from the trash** when it can be recycled.

# Recycling & Solid Waste Management

- Continue exploring/utilizing trash/recycling container sensor technology
  - Improved allocation of resources (e.g. vehicles)
  - Reduced fuel consumption
  - Reduced greenhouse gas emissions
  - Improved customer experience



Software platform allows user to view trends to help anticipate collection needs for a given site.

# Volunteer Stream and Park Cleanups

## FY2019 AT A GLANCE

Tires: 150

Bags of Trash: 2,852

Bags of Recycling: 1,209

Pounds Trash: 84,604

Pounds Recycling: 30,225

Pounds Tires: 3,300

Total Pounds: 118,129

Projects: 288

# of Volunteers: 5,380

Hours: 12,819

*The Volunteer Services Office, seeks to advance the mission of Montgomery Parks by supporting Park staff in their efforts to facilitate volunteer partnerships that enhance the park system*

*In recent years volunteers have donated more than 88,000 hours of volunteer service annually. Montgomery Parks is very fortunate to have such generous community support!*



# Questions?

