

M-NCPPC, Montgomery County

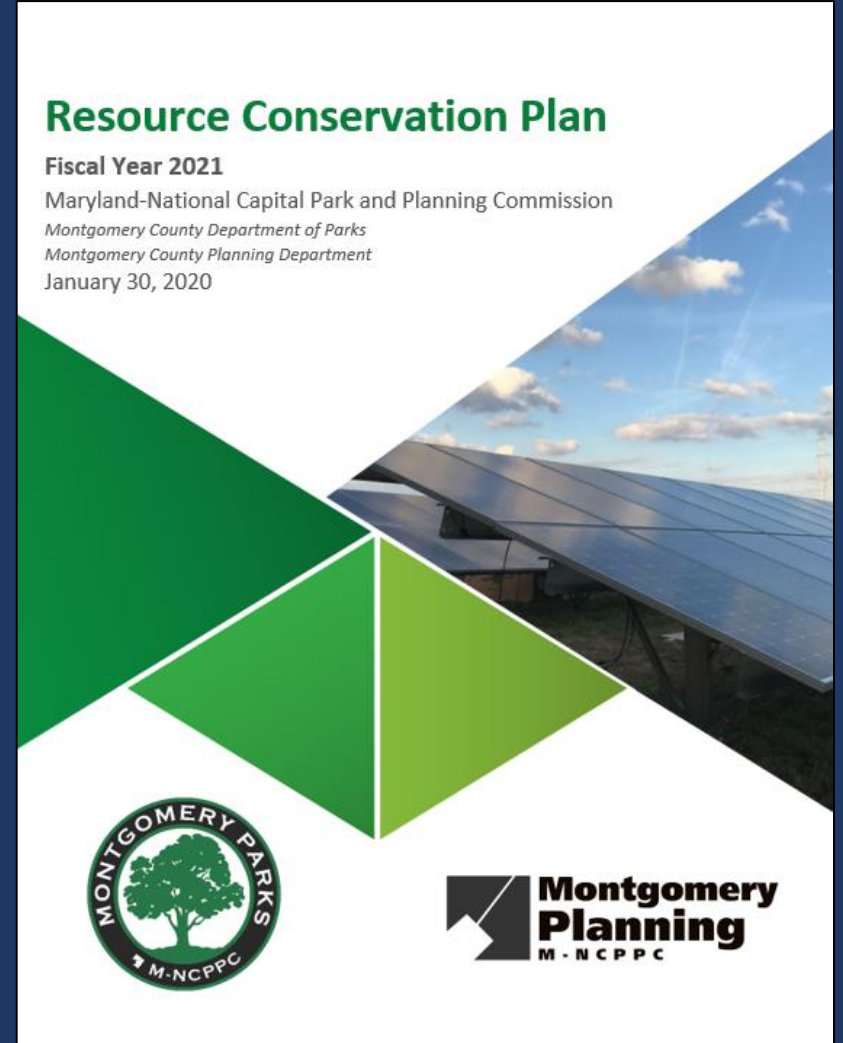
FY21 Resource Conservation Plan (RCP)

2019 Annual Business Recycling & Waste Reduction Report



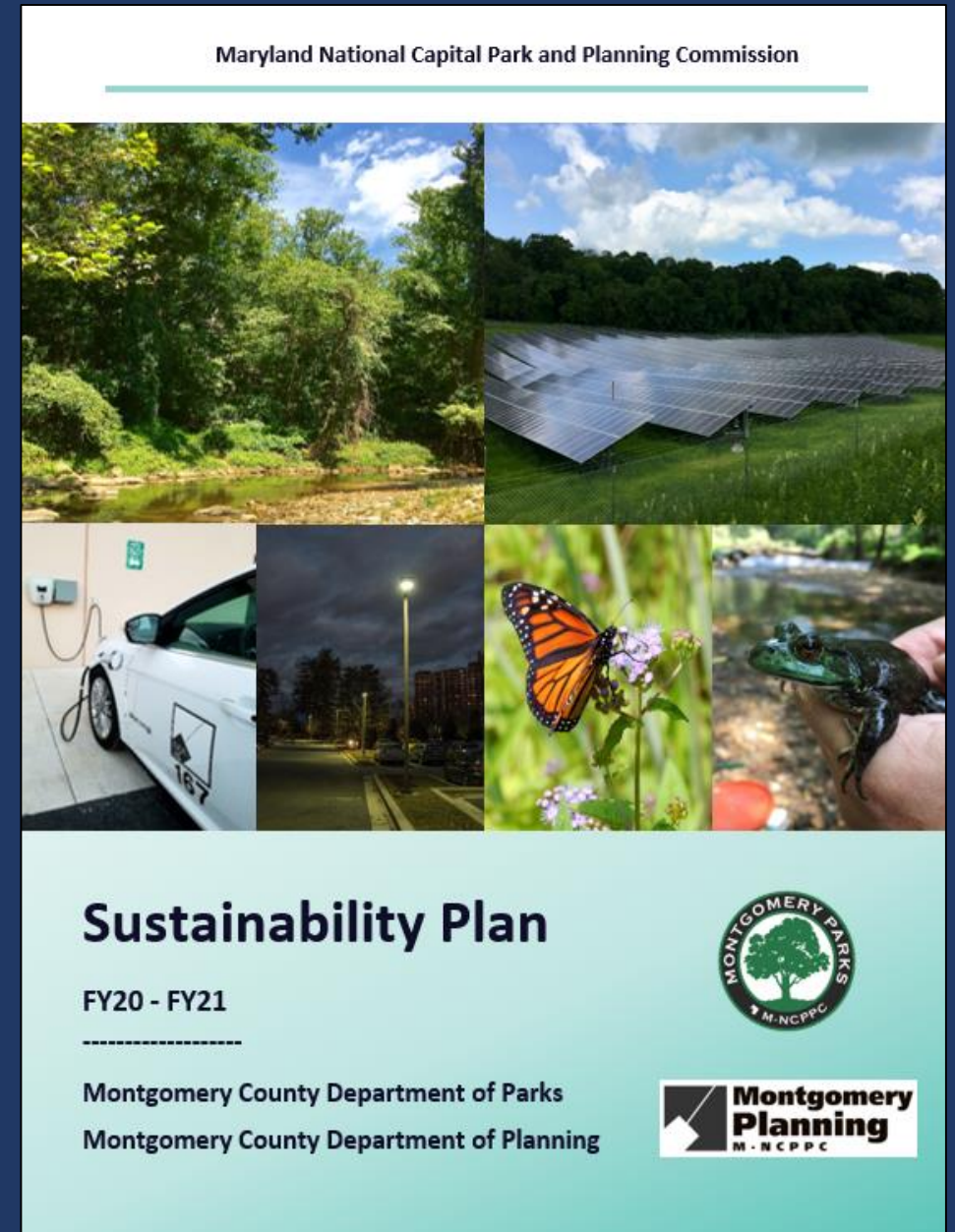
Resource Conservation Plan

- 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.



Utility Budget/Costs: Results, FY19

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

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**

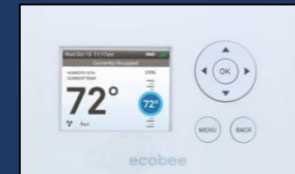
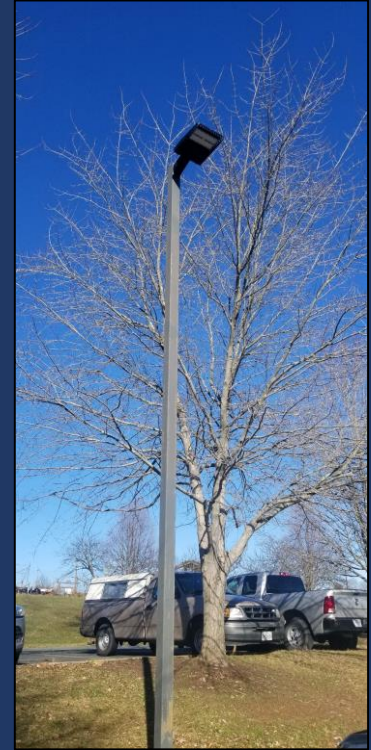
- Interior and exterior facility lighting incl. parking lot/walkway
- Athletic Courts and Fields

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

FY20: July 2019 through June 2020

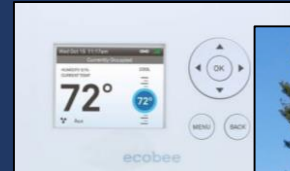
Data obtained from M-NCPPC General Ledger and EnergyCAP

** 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

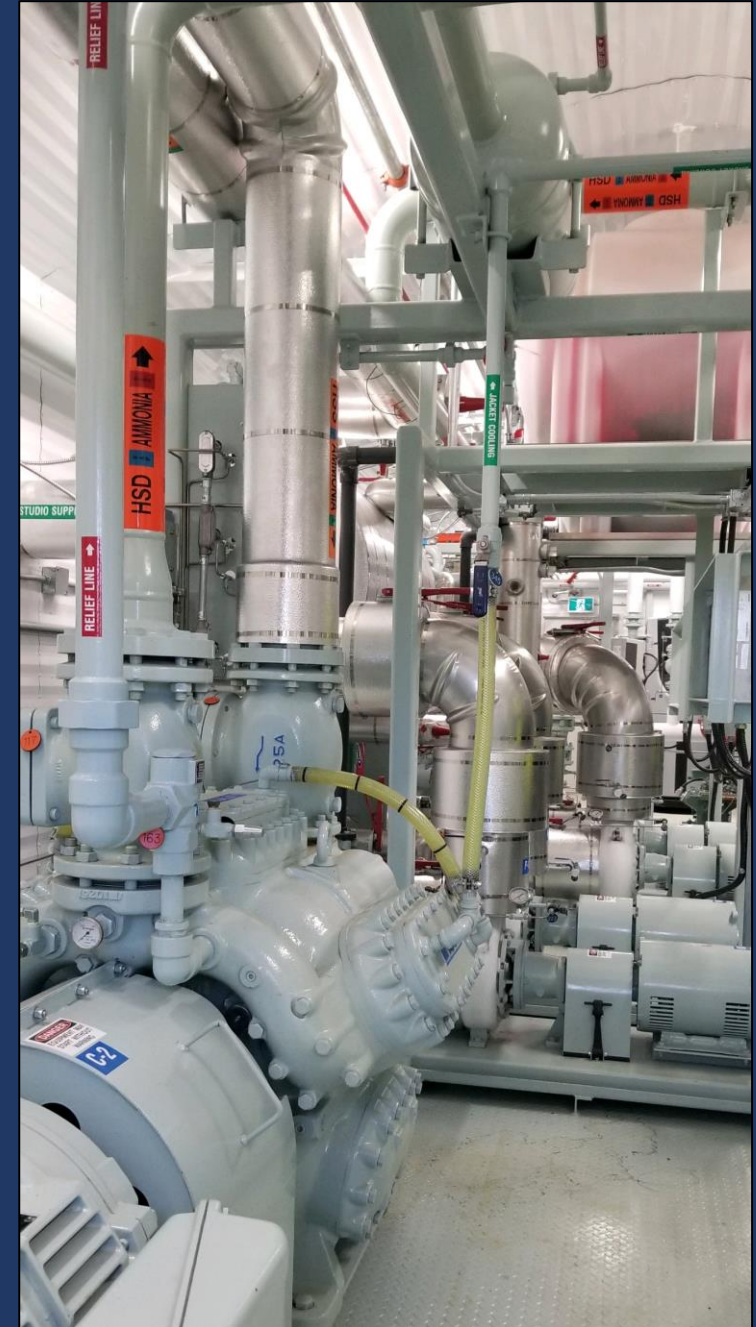
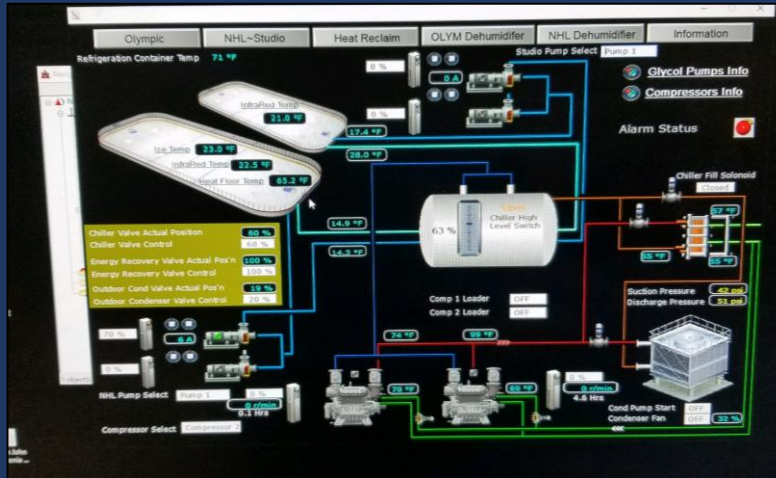


Maydale Nature Classroom



Project Status to Date: FY20

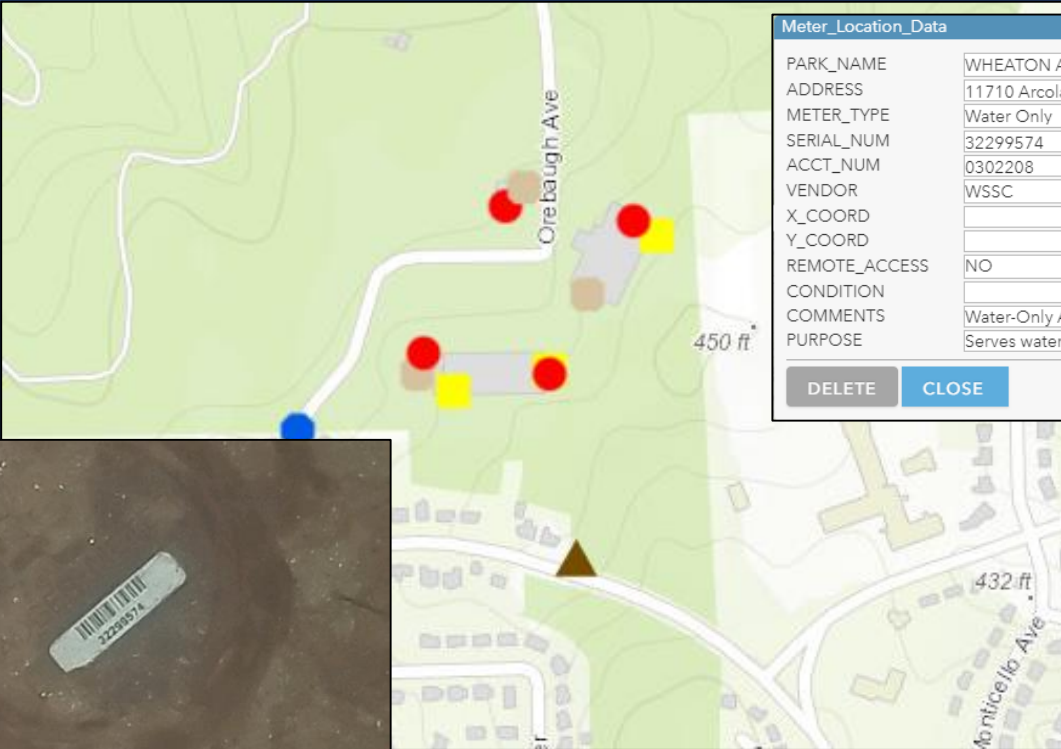
Cabin John Ice Rink



Energy/Utility Audit: Meter Collection

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

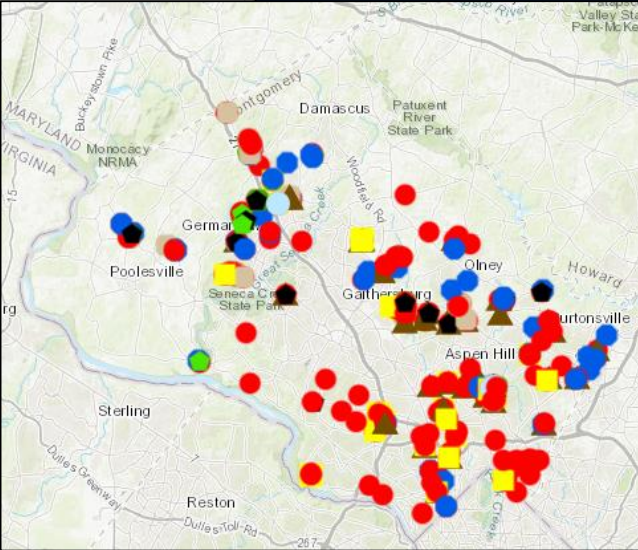
WSSC	Wheaton Reg Athletic Area / MC-M28 / 11710 Orebaugh Ave (11710 Arcola Ave.)	0302208	32299574	MC-M28-31755784	water/sewer	WSSC	Y
Electric	Wheaton Reg Indoor Tennis / MC-M31 / 11715 Orebough Ave	55012684670	KZD350868029	MC-M31ELEC	MC-M31 2035207808	Potomac Electric Power Company	Y
Electric	Wheaton 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

DELETECLOSE



Goals for FY21

Energy Conservation/Efficiency:

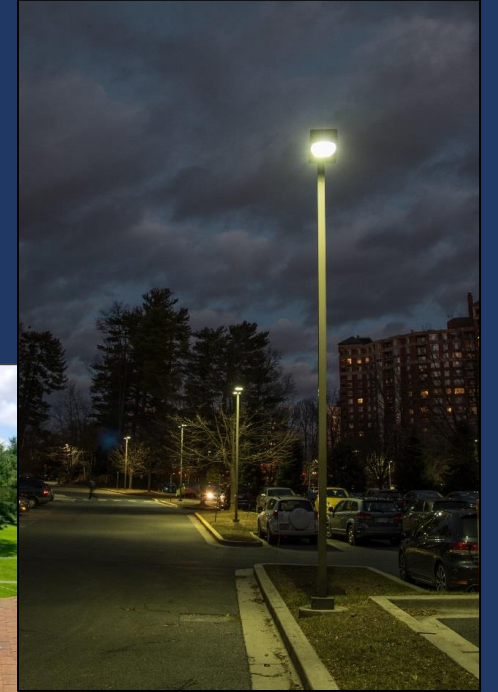
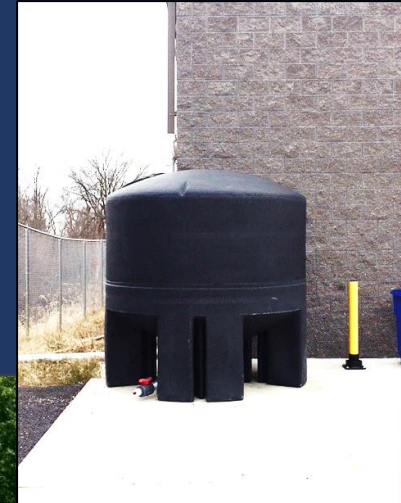
- Improve building envelope assessments at start of projects.
- Continue making progress retrofitting interior and exterior lighting to LED technology.
- Continue upgrading to high-efficiency appliances and equipment.

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
PARKS DEPARTMENT	\$2,250,522
PLANNING DEPARTMENT	\$52,897
ENTERPRISE	\$960,700
PROPERTY MANAGEMENT	\$14,500
BI-COUNTY	\$82,075
WHEATON HQ	\$764,659
TOTAL:	\$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



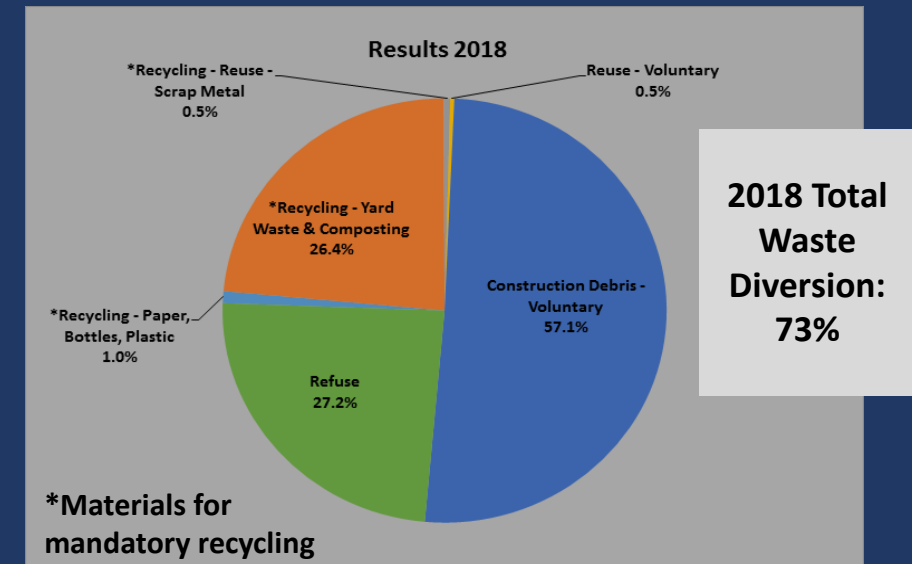
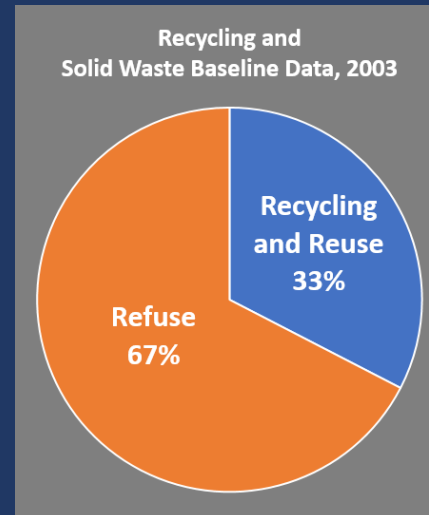
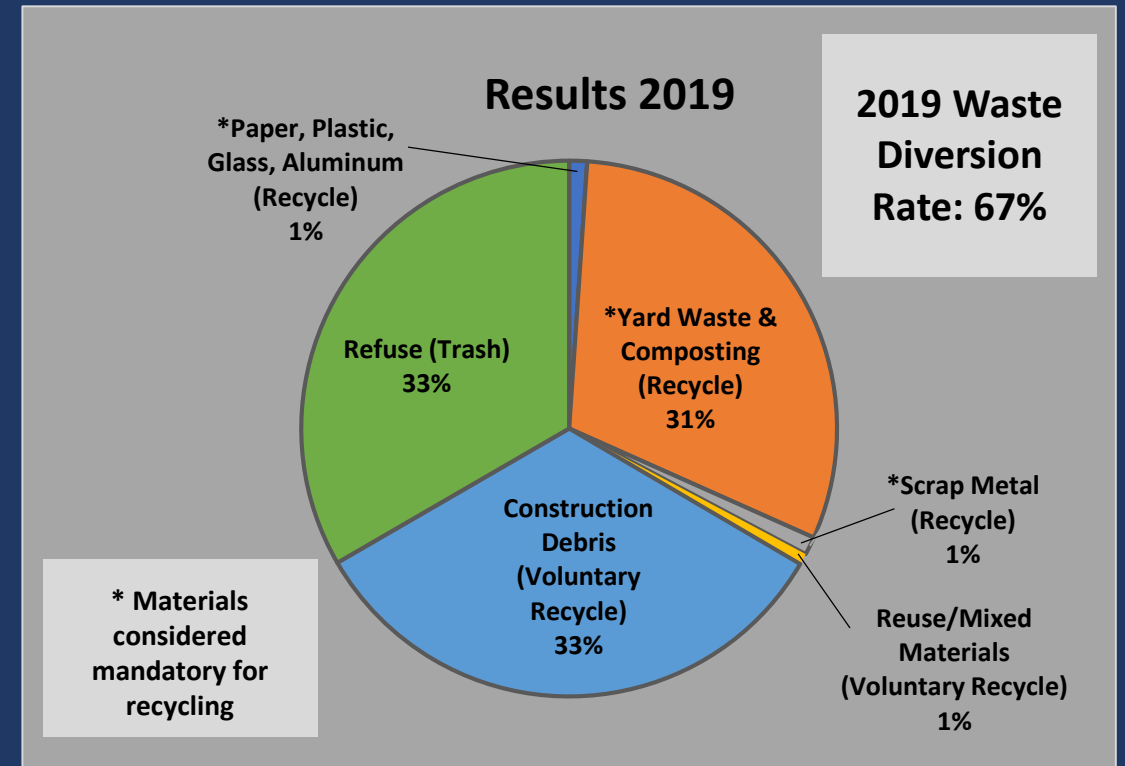
Recycling & Solid Waste Management: Background

- 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



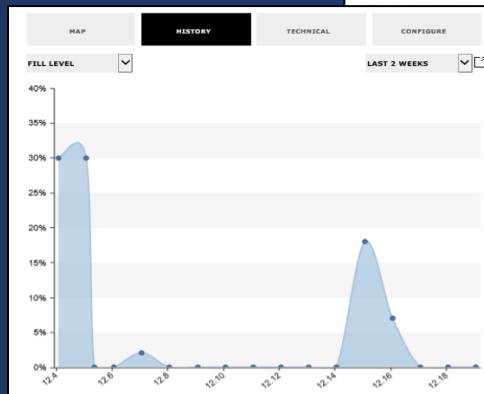
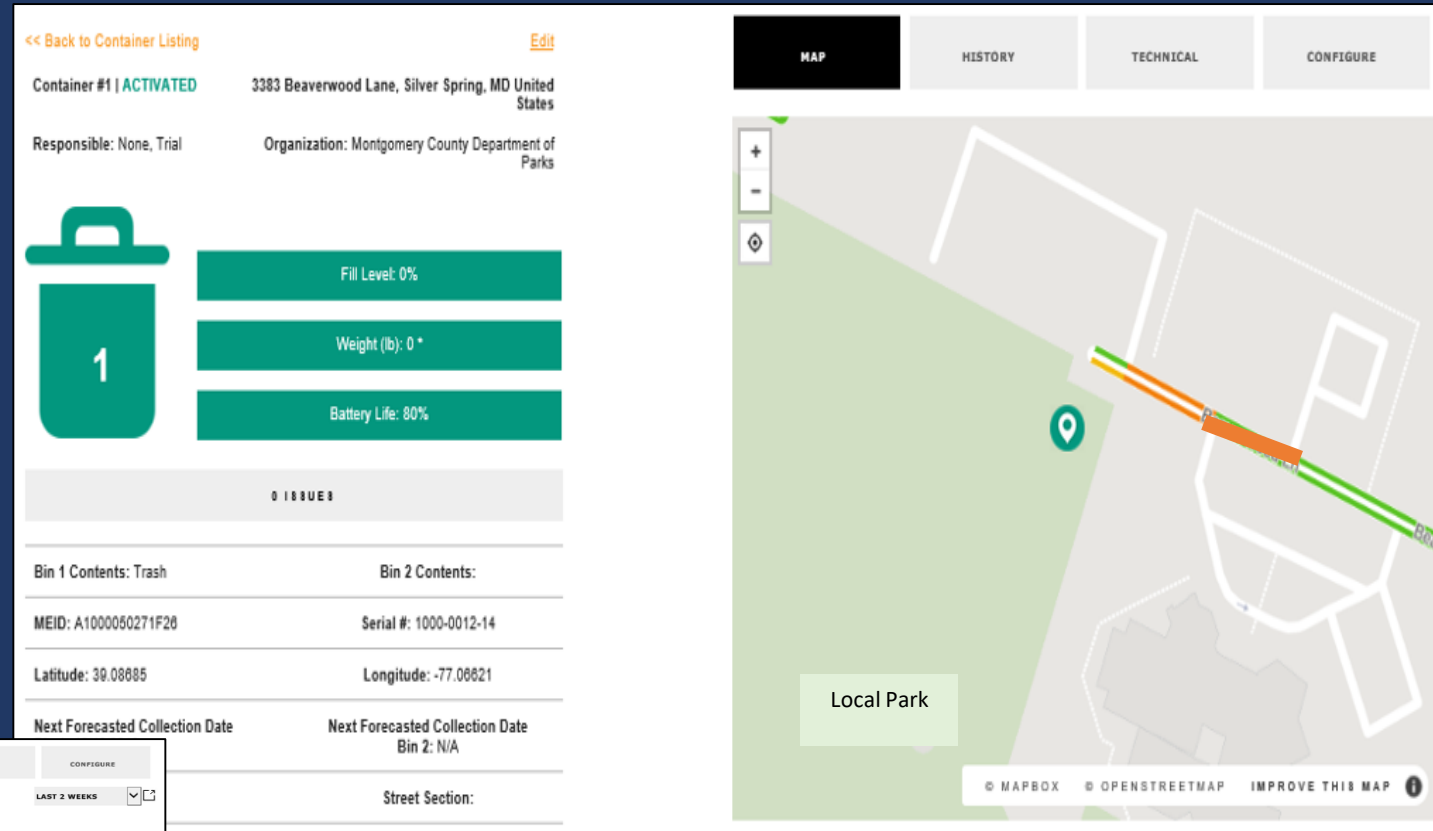
Brookside Gardens



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?

