



BALTIMORE CITY 10-YEAR SOLID WASTE MANAGEMENT PLAN APPROVED

A

fter a 12-month effort, the City of Baltimore Department of Public Works 10-year Solid Waste Management

Plan (SWMP) update, led by Authority on-call contractor Geosyntec Consultants, has been approved by the City Council and signed by the Mayor. The update is required under state law and provides the map for waste and recycling operations within the City for the next 10 years. The SWMP discusses strategies to enhance solid waste infrastructure and programs in the

City and reflects the City's planning process, the [Sustainability Plan of 2019](#), and the [Less Waste Better Baltimore Plan](#) of 2020. The plan's topics include:

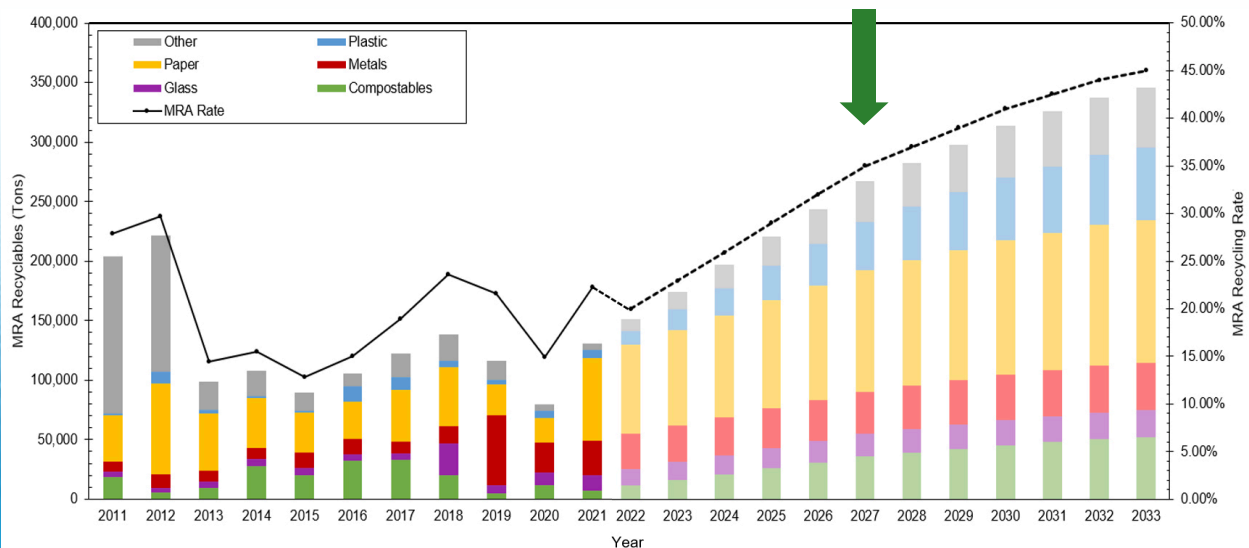
- Waste reduction and diversion
- Waste processing and recycling
- Waste disposal system
- Education and outreach efforts to achieve goals within the planning period
- Actions to meet City and State derived solid waste disposal and recycling goals

The plan officially went into effect on January 1. A summary report and community outreach information can be found on the City's webpage at: bit.ly/10YearSWMP.

If the City implements the projects agreed upon in the plan, the recycling rate will increase significantly over the next 10 years. The green arrow highlights when the City is estimated to achieve the 35% MRA Recycling rate.



BALTIMORE CITY
DEPARTMENT OF
PUBLIC WORKS



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NORTHERN LANDFILL TRANSFER STATION IMPROVEMENTS UPDATE

The Authority issued an RFP in August of 2023 that resulted in a contract with INL Construction to make repairs and improvements to the Transfer Station Tipping Floor at Carroll County's Northern Landfill Resource Recovery Park in Westminster, Maryland. Work under this contract commenced on November 17th on the waste side of the Transfer Station. Currently all waste received at the Transfer Station is being hauled to Modern Landfill, located in York, Pennsylvania, under the Authority's contract with BFI

Waste Services (Republic). Geosyntec Consultants, through its on-call contract with the Authority, prepared the design documentation and bid support, and assisted with quality assurance services during construction.

Repair and improvement work included the complete replacement of the concrete tipping floor and the replacement and installation of several bollards. The tipping floor was replaced with 12-inch-thick steel fiber reinforced concrete and includes a layer beneath the concrete slab for drainage. Construction was completed in January.



Carroll County Transfer Station Bays 1 & 2 concrete slab and drainage layer beneath slab (#57 stone)



Transfer Station Bays 3 & 4 concrete slab

MRN AND TURBOHAUL HOST MATTRESS RECYCLING TOUR

As an update to our last issue, the Authority's mattress and box spring recycling vendor, TurboHaul, hosted a tour for Maryland Recycling Network (MRN) members on December 15, 2023, at its new facility in Brooklyn, MD.

At the tour, TurboHaul provided an in-depth presentation, highlighting that more than 370,000 mattresses

are "retired" in Maryland annually. Of these, TurboHaul currently recycles roughly 45,000 mattresses and box springs per year, suggesting significant room for growth.

According to Mike O'Donnell, COO of Mattress Recycling Council, "A recent analysis of our California program's environmental footprint from collection to recycling shows that each recycled mattress saves 500 gallons of water, conserves enough

energy to power a house for three days, and reduces greenhouse gas emissions equivalent to driving 60 fewer miles."

In addition to dismantling and recycling the wide array of materials in each mattress, TurboHaul also rebuilds and restores components that can be reused in new mattresses. A more detailed recap of the tour can be found on the [MRN website](#).



Baled commodities from mattresses/box springs at TurboHaul's new facility

ELECTRONICS COLLECTION & REUSE/RECYCLING MASTER SERVICE AGREEMENTS AWARDED

New Programs in Member Jurisdictions were Initiated in July 2023

In April 2023, the Authority awarded Master Service Agreements (MSAs) to Securis and eRevival for Electronics Collection and Reuse/Recycling Services. Contract terms were initiated on July 1, and will extend through June 30, 2028.

During the RFP process, the scope of the services was expanded to include a new special collection event option for Baltimore City agencies, offices and schools, based on the City's request.

Under the MSAs, Montgomery, Howard and Frederick Counties initiated contracts with eRevival, while Baltimore and Carroll Counties initiated contracts with Securis. Baltimore City is currently seeking contract approval with Securis from its Board of Estimates.

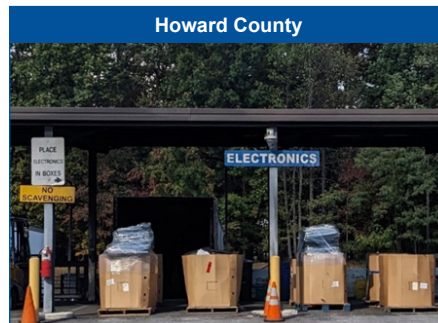
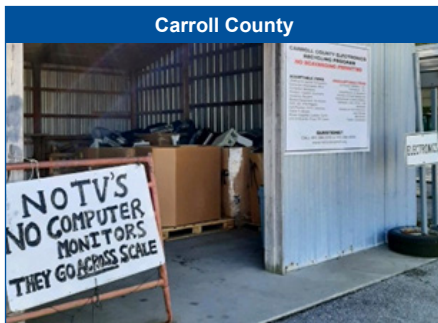
The selected companies agreed to collect a wide range of expanded electronics, including: printer ink; toner cartridges and ribbons; clocks; VHS and cassette tapes; smart light controllers; smart garage controllers; smart devices with speakers (e.g., Alexa, Google Assistant, Siri, Echo Dot, etc.); small residential electronic appliances such as coffee makers, espresso machines, electric milk frothers, electric mixers, electric blenders (no glass blender containers), toasters, counter-top toaster ovens, counter-top microwaves, small handheld vacuums and robotic vacuums (e.g., Roombas); small electric hair styling tools (e.g., curlers, straighteners, blow dryers); electric scooters and bikes; electric lawnmowers; all single use and/or rechargeable batteries (easily removable or embedded in electronics); small handheld electric

tools (e.g., drills); older manual model thermostats; surveillance cameras; remotes; drones; USB thumb drives and flash drives, and electronic gift cards, debit cards and credit cards.

Another positive outcome of this procurement is that Baltimore County has reintroduced recycling of televisions and computer monitors into its program with Securis!

The Authority is also proud to report that this procurement produced an extremely competitive pricing outcome. The new pricing provides overall cost savings, (either at no cost or significantly reduced rates) to seven out of eight of its Member Jurisdictions' programs, when comparing the new pricing to previous or other available contracts.

Electronics recycling drop-off areas in member jurisdictions with new contracts in place:



GUDE LANDFILL REMEDIATION PROJECT UPDATE

The Authority continues to provide regular progress updates about the Gude Remediation project at the site of the closed Gude Landfill. This initiative will ultimately revitalize the landscape into an environmental and recreational asset for the community. As the project progresses, a myriad of accomplishments and advancements are unfolding, showcasing Montgomery County's and the Authority's dedication to sustainable remediation practices.

The landscape transformation is visible in the stabilized slopes of Phases I, II, and III. This stabilization of the slopes occurred after intricate geosynthetic liner installation performed by Hallaton, a company that specializes in environmental liners. As mentioned in the previous issue of [WasteWatch](#), most of Phase

I and II geotextile work was completed in the autumn. This winter, Hallaton finished the placement of geosynthetic material in Phase III, the northeast section of Phase I, and the detailed liner work in Phase II. These accomplishments highlight the collaborative effort between the Authority and its contractors in ensuring the highest standards of remediation. Vegetative support layer soil and topsoil stockpiling and subsequent placement in Phases I, II, and III are ongoing.

In addition to geosynthetic lining work, Allan Myers, the construction contractor on the Gude Remediation project, installed various erosion and sediment control features. Erosion control matting and filter logs now fortify and prevent erosion on the northwest slope of Phase I. Discharge pipes and rip rap outfalls further enhance stability. The gabion down chute construction in Phases I, II, and

III is complete as well, which will gently slow down the speed of the water run-off while sieving the soil it carries in these phases. The installation of check dams, the repair of the northwest sump area super silt fencing, and reinforcement with riprap stone underscore the project team's commitment to preventing erosion and sediment runoff.

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A large drill rig makes the holes to install LFG extraction wells in Phase IV



Stabilized slopes of Phases I, II, and III

Additionally, construction activities steadily proceeded through the end of 2023. Landfill Gas (LFG) piping installation finished in Phases I and II with some LFG piping work left in Phase III. Allan Myers also created and stabilized permanent access roads by placing CR-6 crushed gravel aggregate and topsoil along the road edges.

A significant milestone has been achieved in managing leachate efficiently as well. The implementation of a slope toe drain underneath Phases I, II, and III should now allow leachate to flow seamlessly into strategically positioned sumps along the slope. Subsequently, these sumps facilitate the pumping and hauling of leachate to the Oaks Landfill for treatment and safe disposal.

As the project advances, attention turns to Phases IV and V. In Phase IV,

Carlson Environmental Consultants (CEC), the contractor for LFG Operations and Maintenance, is finishing drilling all remaining LFG extraction wells and condensate drains. The new wells will collect methane gas to mitigate odors.

Allan Myers installed erosion and sediment control features and removed LFG piping in advance of one foot of cover soil removal in Phase V. Through the remainder of the winter, Allan Myers plans to excavate waste from Phase V, some of which will be hauled to Phase III, as weather permits. Temporary stabilization will follow the excavation work as soon as demolition grade is achieved.

The County continues to update the local community regularly on the project's progress through direct communications, and files on the

County's project webpage. For more information, please contact the Authority or visit the County's project website at: <https://montgomerycountymd.gov/sws/facilities/gude/remediation-project.html>.



January snows on the working face at the Gude Remediation Project

BALTIMORE CITY LANDFILL IMPLEMENTS SCADA SYSTEM

The City of Baltimore, through a contract with the Authority, now has an innovative tool for monitoring and controlling leachate and landfill gas systems at the City's Quarantine Road Landfill. SCS Engineers was hired to implement a Supervisory Control and Data Acquisition (SCADA) system that uses a software package built onto existing monitoring devices. The new system allows landfill operators, engineers and managers to access real-time data that will help to ensure continuity of operations and permit

compliance, and plan for future needs.

The SCADA system collects operational data and displays it on a computer, tablet, or mobile phone. Having the data available at the click of a button allows for a more efficient completion of routine daily inspections. It also facilitates accessing data needed for permit compliance monthly reports and management meetings.

“The system's ability to access real-time data is very useful for

learning the status of multiple systems, right-away,” says Ganesh Dhakal, Engineer with the City of Baltimore.

A SCADA system help desk is available by phone and email to troubleshoot issues that arise. With the framework already in place for future integrations, the City will continue to enhance the system as upgrades and changes to the landfill gas and leachate systems are constructed.

FREDERICK COUNTY TEXTILE COLLECTION EVENTS KICK OFF WITH HELPSY

Frederick County commenced its textile reuse and recycling service under the Authority's Master Service Agreement with Helpsy and teamed up with community partners in October and November 2023 as part of their "Tons of Textiles Tour" drive. This event-based collection series allows Frederick County to meet residents in their community,

giving them convenience and the opportunity to help keep textiles out of landfills. The ease of utilizing Helpsy as a pick-up partner allows for minimal staff coverage while maximizing outreach at locations and events that would not usually be covered. The 2023 events included the Sustainable Middletown's Fall Recycle Day, St. Joseph's County Carnival, Mount St. Mary's Women in STEM, and a dual drop-off at The Common

Market Locations to celebrate America Recycles Day.

Frederick County generates revenue paid by Helpsy when hosting these events, currently earning \$0.14/lb. for collected textiles. Frederick County plans to continue the Tons of Textiles Tour, by coordinating collection events quarterly in 2024. Thanks to all who participated!



Frederick County/Helpsy Textile Reuse/Recycling Collection Event at Mount St. Mary's Women in STEM Event



Frederick County/Helpsy Textile Reuse/ Recycling Collection Event at the Common Market, celebrating America Recycles Day



Full truck load of textiles diverted from disposal at Frederick County/Helpsy Textile Reuse Recycling Collection Event

SWANA MidAtlantic Chapter's Manager of Landfill Operations (MOLO) 3-Day Certification Course
Monday, March 18, 2024 – Wednesday, March 20, 2024 (8:30 a.m. – 5:00 p.m.)
LOCATION: DSWA Administrative Office
601 Energy Lane Dover, DE 19901
[Event Registration - Mid-Atlantic Chapter - Manager of Landfill Operations \(MOLO\) \(swana.org\)](#)

2024 SWANA Mid-Atlantic Regional Road-E-O
May 10, 2024
Maryland Environmental Service
Mid-Shore Regional Landfill, Ridgely, MD

2024 MRN/SWANA-MidAtlantic Annual Conference
Monday, June 10, 2024, 7:30 am until 6:00 pm
Turf Valley Conference Center, 2700 Turf Valley Road, Ellicott City, MD
[Events - Maryland Recycling Network](#)

COMING SOON! Baltimore County Bulk Materials Curbside Collections Services Requests For Proposals



Northeast
Maryland
Waste
Disposal
Authority

100 S. Charles Street, Tower II – Suite 402
Baltimore, Maryland 21201
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