



## ANNUAL SITE TOUR OF KING GEORGE LANDFILL COMPLETED IN OCTOBER

**T**he Authority and representatives from Anne Arundel County participated in the annual site visit at the King George County Landfill, located in Virginia on October 26. The Service Agreements between the Authority and Waste Management on behalf of Anne Arundel and Howard Counties stipulate an annual tour as a requirement. These annual tours allow the Authority and Member Jurisdictions to inspect the landfill, review operations, and discuss regulatory compliance. Pete Kistner, district manager for Waste Management, conducted the tour.

The Authority contracts with Waste Management for the acceptance, transportation and disposal of municipal solid waste delivered by Anne Arundel and Howard Counties to the Annapolis Junction Transfer Station in Jessup, Maryland. Annapolis Junction then sends the waste by rail operation to the King George Landfill.

The King George Landfill site is 630 acres, of which 291 acres will be developed as landfill. The landfill has been in operation since 1996 and receives around 6,000 - 9,500 tons



A railcar tipper prepares to rotate 65 tons almost 180° to dump trash onto the tipping floor.

of waste per day, with approximately 2,500 tons-per-day coming in by rail from the Annapolis Junction Transfer Station. King George Landfill's life expectancy is estimated to last another 19 years.

Waste Management currently treats its leachate (water that has come into contact with solid waste) through an on-site evaporation treatment process, powered by the on-site landfill gas-to-energy facility. The excess leachate is shipped to New Jersey for treatment.

Landfill gas, generated from the decomposition of organic materials in the waste, from the site is collected and sent to the landfill gas-to-energy facility, which utilizes four turbines to generate and export approximately 10 megawatts of electricity to the local electric distribution system, or grid. The excess gas is burned in one of three on-site flares.

King George Landfill also has six projects onsite as part of a conservation program it began in partnership with Wildlife Habitat Council (WHC) in 2009. Some of these projects established habitat for purple martins, bluebirds, turtles, and other species. An on-site pollinator garden, native tree planting events, and community outreach events promote biodiversity and environmental literacy.



A view of the King George Landfill

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## 10-YEAR WASTE DISPOSAL CONTRACTS AWARDED TO GARNET OF MARYLAND, INC



n April 7, 2022 the Authority's Board approved and awarded regional non-recycled municipal solid waste acceptance, processing, transportation and disposal service contracts to Garnet of Maryland, Inc. (Waste Management) on behalf of Anne Arundel County and Howard County.

The resulting contracts were executed in the following order:

1. The Waste Disposal Agreement between Howard County and the Authority was executed on June 22, 2022.
2. The Service Agreement between the Authority and Waste Management on behalf of Howard County was executed on June 24, 2022.
3. The Waste Disposal Agreement between Anne Arundel County and the Authority was executed on October 7, 2022.
4. The Service Agreement between the Authority and Waste Management on behalf of Anne Arundel County was executed on October 7, 2022.

Service under these contracts for Howard County initiated on July 1, 2022 and ends June 30, 2023 with 10 additional one-year optional terms through June 30, 2033.

For Anne Arundel County, service under these contracts begins on April 12, 2023 and ends June 30, 2024 with nine additional one-year optional

terms through June 30, 2033.

This long procurement process officially started on July 1, 2021 when the Authority issued its Request for Proposals. The Authority included input provided by the Counties in the RFP regarding the types of acceptable material to include, and the operational and logistical needs of the Counties. Four addenda were issued for this procurement between July and November 2021 and two proposals were received by the due date of December 15, 2021. In January and February 2022, the Authority issued clarification requests to the proposers to clarify and request information previously not provided with the initial proposals including updated tonnage limits in the price proposals, and to confirm agreement with the terms of the Service Contract.

After receipt of final proposals, Waste Management was evaluated and determined to have demonstrated satisfactory experience in regional non-recycled municipal solid waste collection, acceptance, processing, transportation and disposal services in the same capacity for Anne Arundel County, Howard County and similar capacities for municipal governments as well as commercial, industrial and residential entities across North America.

The Proposals were evaluated in comparison to each County's pricing under current contracts for these services. Price proposals were also

evaluated in comparison to each other for both Anne Arundel County and Howard County, as well as part of projected annual costs using both fiscal year 2021 generated tonnages as well as the maximum tonnage allowance under the proposed pricing. Waste Management submitted the most favorable price proposal:

Form B-1-A Scenario I  
Price Proposal for Anne Arundel County (Separate Price Proposal):

1. Proposed price per ton for all tons up to 75,000 tons per year: \$62.00 per ton
2. Proposed price per ton for all tons over tons in one above up to 150,000 tons per year: \$60.00 per ton
3. Proposed price per ton for all tons over tons in two above up to 175,000 tons per year: \$62.00 per ton

Form B-1-B Scenario I  
Price Proposal for Howard County (Separate Price Proposal):

1. Proposed price per ton for all tons up to 75,000 tons per year: \$62.00 per ton
2. Proposed price per ton for all tons over tons in one above up to 125,000 tons per year: \$60.00 per ton
3. Proposed price per ton for all tons over tons in two above up to 150,000 tons per year: \$62.00 per ton

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On another positive note, the Environmental Research & Education Foundation Reported Data (January 2021), these awarded rates were noted as being lower than the average Maryland tipping fee reported at that time (see table).

Overall, Waste Management submitted a proposal that was determined to be more responsive to the RFP, most importantly considering the capacity needs of the Counties. At the time of review, Waste Management was determined to provide these same services to the Counties under their current contracts, as well as to other jurisdictions and companies in the region without incident (as publicly known), and continues to be

| Environmental Research & Education Foundation January 2021 Data |                   |
|---|-------------------|
| Northeast   | \$68.69 (± 20.46) |
| Connecticut   | N.A.              |
| Delaware  | \$85 (± 0)        |
| Maine   | \$75.21 (± 16.51) |
| Maryland  | \$66.73 (± 15.65) |
| Massachusetts   | N.R.              |
| New Hampshire   | \$74.34 (± 8)     |
| New Jersey  | \$78.8 (± 11.69)  |
| New York  | \$71.71 (± 29.68) |
| Pennsylvania  | \$73.45 (± 15.23) |
| Rhode Island  | \$115 (N.R.)      |
| Vermont   | \$101.95 (N.R.)   |
| Virginia  | \$53.43 (± 14.97) |
| West Virginia   | \$54.66 (± 15.14) |

Source: *MSWLF-Tipping-Fees-2020\_FI-NAL-m2yyxt.pdf* ([erefdn.org](http://erefdn.org))

acutely aware of the operational needs of the Counties. Ultimately, Waste Management has established itself as a responsible and trustworthy outlet for municipal solid waste. Its proposal was determined as qualified, reliable, legally compliant, and the most cost effective, offering the best value by a large margin, while providing the required tonnage capacity for both Counties.



## GEOSYNTEC TO ASSIST BALTIMORE CITY WITH 10-YEAR SOLID WASTE MANAGEMENT PLAN UPDATES

**T**he City of Baltimore and the Authority have chosen Geosyntec Consultants to lead the 10-year Solid Waste Management Plan (SWMP) update. The update is required under state law and will provide the map for waste and recycling operations within the city for the next 10 years. The existing plan covers the period of 2013-2023 and will be used as a starting point to build the 2024-2034 plan.

The SWMP will incorporate critical changes and updates based on Baltimore City's solid waste management practices and the impact of federal, state, and local requirements. It will also include updates on Baltimore City's regional

setting, population projections, and the policies and programs related to the 2019 Sustainability Plan.

In 2020, Geosyntec assisted Baltimore City in developing their solid waste management and recycling master plan, titled "Less Waste, Better Baltimore Plan." Geosyntec will provide technical support to assist the City as it works to meet the December 31, 2023 Maryland Department of the Environment (MDE) approval deadline. Prior to submittal, the plan will be submitted for approval by the Baltimore City Council. As part of the project, Geosyntec will lead at least four on-site workshops at solid waste facilities to gain valuable insight on current waste management practices, and will host at least three public draft

review meetings to provide status updates on the draft plan. These meetings will provide an opportunity for community stakeholders to review the plan, express their thoughts on the draft plan, and ask questions. Geosyntec is working with a woman-owned public relations firm, Home|Gavin ([evolving-influence.com](http://evolving-influence.com)), to support meeting facilitation and meeting advertisement tasks associated with the project. In addition, Geosyntec will attend and present at two public meetings for the MDE tentatively approved draft and will attend the Baltimore City Council hearing.

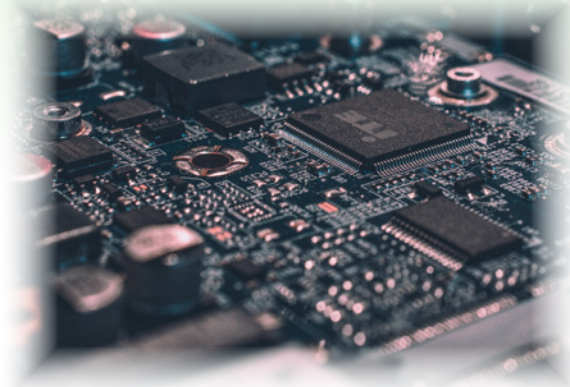
## AUTHORITY ISSUES RFP FOR ELECTRONIC MATERIALS COLLECTION & REUSE/RECYCLING SERVICES

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Request for Proposals (RFP) is now available for qualified vendors to perform electronics material collection and reuse/recycling services. The RFP was issued on December 1, 2022. These services will be available to the Authority's Member Jurisdictions, including Anne Arundel County, Baltimore City, Baltimore County, Carroll County, Frederick County,

Harford County, Howard County and Montgomery County. The term of this new Master Service Agreement will run July 1, 2023 through June 30, 2028. Please submit a proposal if your company is qualified and interested!

The proposal due date is February 2, 2023. RFP details can be found on the Authority's website at: <https://www.nmwda.org/procurement-opportunities/>



## EA ENGINEERING AWARDED DESIGN CONTRACT FOR CARROLL COUNTY'S NORTHERN LANDFILL MASTER PLAN

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At the direction of Carroll County, the Authority issued a Request for Proposals in April of 2022 for a Resource Recovery Park conceptual design and landfill expansion for the Northern Landfill. The RFP included a request for a qualified design engineer or team to develop an overall master plan that would guide planning, design, and construction improvements at the Landfill's Resource Recovery Park.

Carroll County Commissioners recently approved the purchase of 326 acres of land adjacent to Northern Landfill allowing for a generational sustainable solution for the County's Solid Waste Management Enterprise Fund. The work scope of the design engineer, through the contract with the Authority, includes conducting a thorough evaluation of the recently acquired land and presenting design options for facility improvements. Upgrades are needed at this time because the existing infrastructure is rapidly aging. The improvement

The underlying goal of this project is for Carroll County to have an efficient, effective, financially sustainable long-term plan for Solid Waste and Recycling operations for years to come.

plan will include design for a new Transfer Station and a consolidated homeowner use area for waste and recyclable drop-offs. Other upgrades will include entrance and internal facility road improvements to limit traffic congestion, potential for rail access, and new scale house and maintenance facilities. For more than 20 years, most of the County's waste has been transferred out of the County, with only a small portion being landfilled. The purchase of land combined with a design engineer

master plan will not only extend the current life of the landfill but will provide opportunities to pursue new waste management options, such as a resource recovery park for organics management.

Five qualified engineering firms responded to the RFP and EA Engineering's (EA) proposal scored the highest from the review team based on their experience, technical approach, and detailed comprehensive work plan. The Review team, consisting of Authority and Carroll County staff, determined that EA's proposal would provide the best overall value to Carroll County. Based on the recommendation from the review team, the Authority's Board approved contracts with Carroll County and EA in October of 2022. The contract budgets will be based on time and materials at the County's direction.

EA Engineering is an Authority on-call engineer based in Hunt Valley, Maryland with 48 years of experience

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providing solid waste management services in the public and private sectors. EA will be the primary contractor for this project and will team with multiple firms. EA's team includes the following firms:

- American Track for track evaluation and alignment of the Transfer Station
- Cambridge Companies for providing design services for the Transfer Station
- Dhillon Engineering for electrical and mechanical engineering and architectural design services

- Floura Teeter Landscape Architects for site screening and a visual impact study for property boundaries
- Gershman, Brickner and Bratton (GBB) for site observations, facility usage projections, an innovative technologies evaluation, and a stakeholder survey, if needed
- Hanover Land Services for providing surveying and County permitting support
- Hillis-Carnes Engineering Associates for providing geotechnical investigation and monitoring well installation services

- MS Spectral for environmental sampling services
- Traffic Concepts for traffic studies and signal design

The Board of Carroll County Commissioners approved the contacts and budget for this project in November of 2022.

## FREDERICK COUNTY YARD WASTE COMPOST PAD TO BE RESURFACED

**T**he Authority awarded CJ Miller, LLC, located in Hampstead Maryland, a contract to remove and replace the existing asphalt compost pad located at the Reichs Ford Landfill in Frederick County, Maryland. This five-acre compost pad is Frederick County's primary yard waste recycling site for residents to drop-off waste, including leaves, grass clippings, brush trimmings and limbs. The yard waste is processed by Frederick County and converted into mulch or compost for sale. This is a unique project in

that the pavement surface of the site's existing compost pad was made from 24,422 square yards of recycled asphalt and sits on top of a closed rubble fill. Over time the surface has deteriorated, which has necessitated a complete replacement.

An Invitation for Bids was issued in September of 2022 and CJ Miller was the lowest cost responsive bidder.

The scope of work in general includes removal of asphalt millings down to the surface of the existing operations pad, proof-rolling and undercutting as

necessary the surface of the operations pad, placement of two layers of geogrid and stone, and placement of specific asphalt pavement for low traffic and high traffic areas.

Construction commenced in November of 2022 and is being performed in two phases to accommodate ongoing yard waste operations. Phase 1 is expected to be completed in January 2023 and Phase 2 should be completed in March of 2023, depending on weather conditions.

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Yard Waste on  
Frederick County Compost Pad



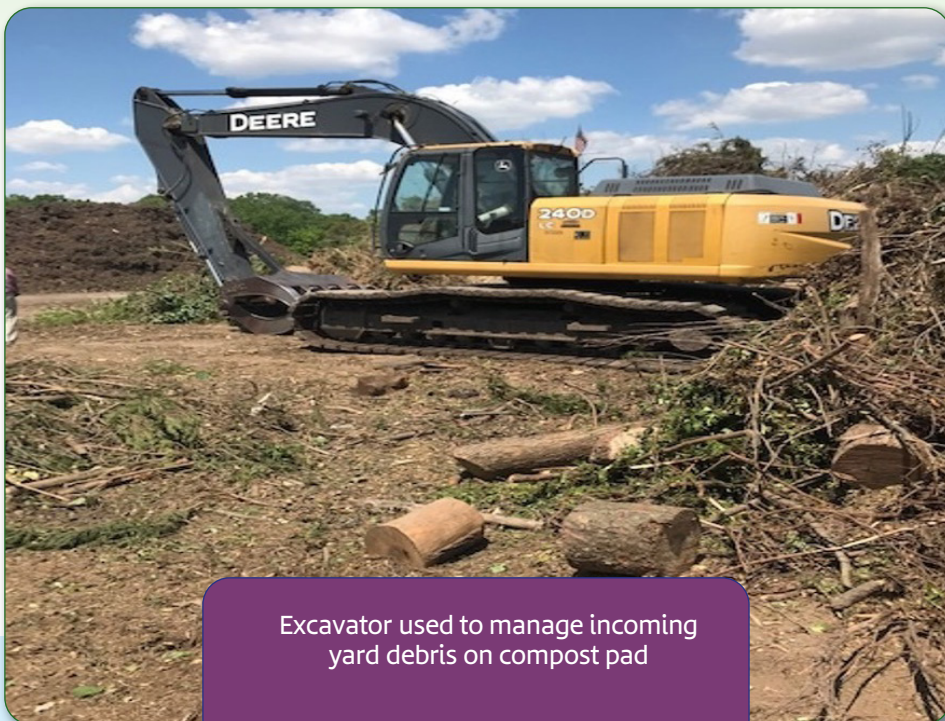
Mulch pile on compost pad. Mulch  
and Compost are sold in bulk to  
County residents



## FREDERICK COUNTY YARD WASTE COMPOST PAD TO BE RESURFACED

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One of the Authority's on-call engineers, ARM Group, prepared the construction documents, including design plans for pad and technical specifications, and assisted in the evaluation of the bids. ARM is also providing quality assurance services for construction and observing daily activities throughout the project including field testing.



Excavator used to manage incoming yard debris on compost pad



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WasteWatch is published quarterly by the Northeast Maryland Waste Disposal Authority, an independent agency of the State of Maryland governed by its Member Jurisdictions – Anne Arundel County, Baltimore City, Baltimore County, Carroll County, Frederick County, Harford County, Howard County and Montgomery County.