

Baltimore County
Department of Public Works and Transportation
Eastern Sanitary Landfill
Municipal Solid Waste Landfill Expansion
MDE Doc. Control #2023-WMF-0052B
White Marsh, Maryland

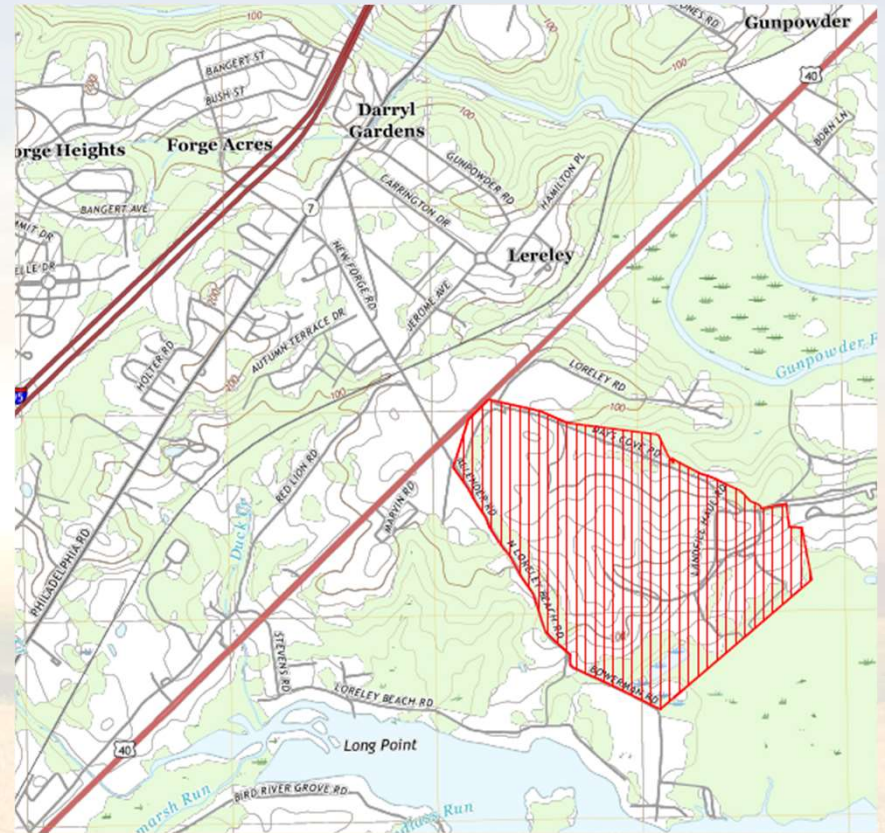


ARM Group
Engineers and Scientists

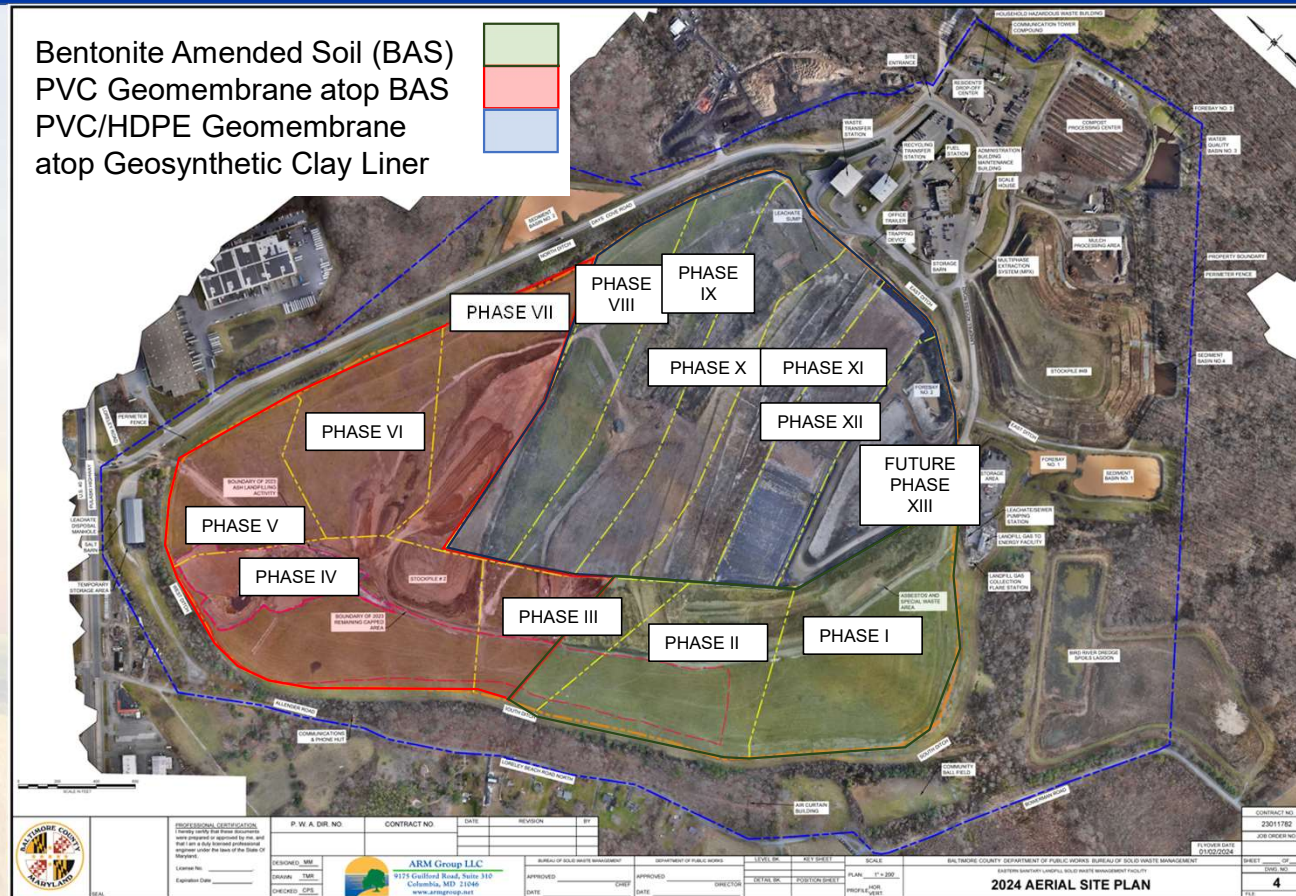
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Eastern Sanitary Landfill Overview

- Owner/Operator:
 - Baltimore County Department of Public Works and Transportation Bureau of Solid Waste Management
- Address:
 - 6259 Days Cove Road, White Marsh, MD 21162
- Current Conditions:
 - Landfilling municipal solid waste (MSW) within Phases X through XII
 - Landfilling ash from BRESCO within Phase IV
- Liner Systems:
 - Phases I through III-A: Bentonite Amended Soil liner
 - Phases III-B through VII: Bentonite Amended Soil liner
 - Phases VIII through XII: PVC/HDPE geomembrane atop geosynthetic clay liner



Existing Conditions

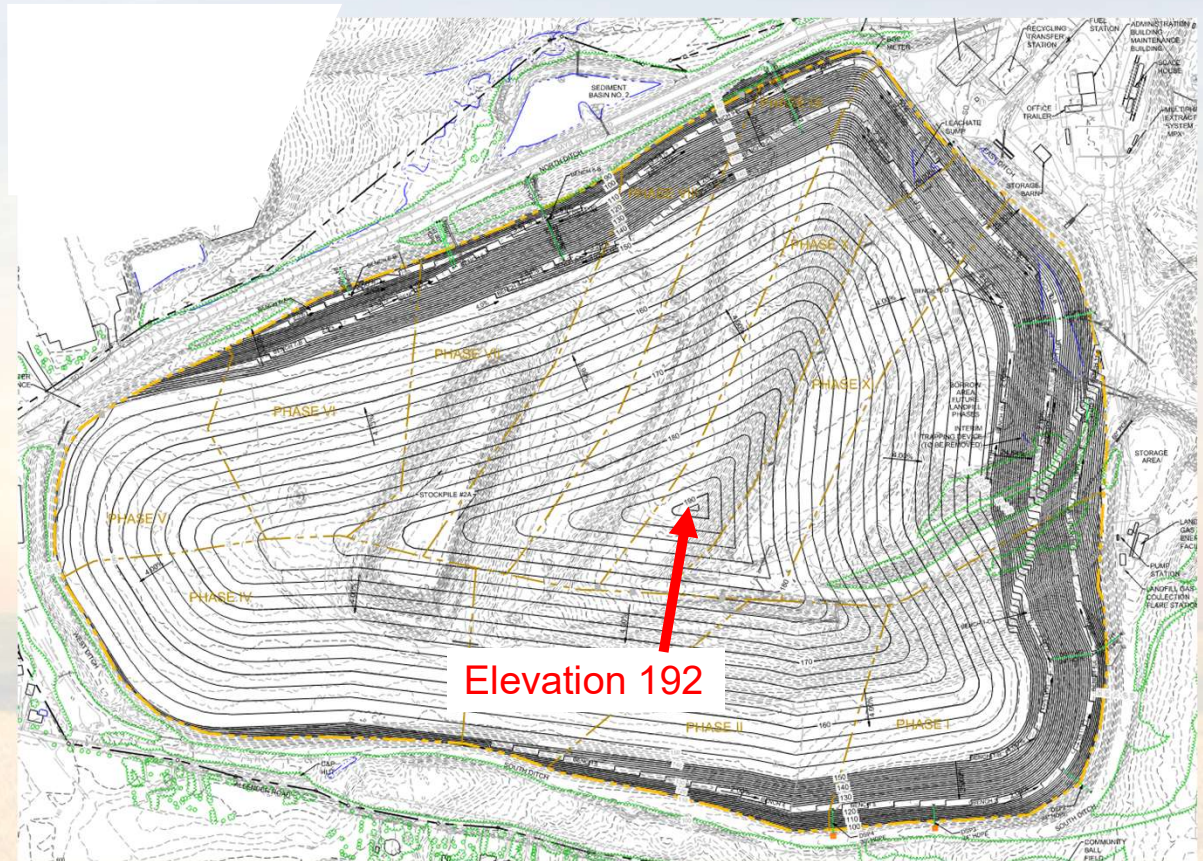


Note: The map legend descriptions provided herein were revised post public informational meeting to clarify the information discussed during the public informational meeting.

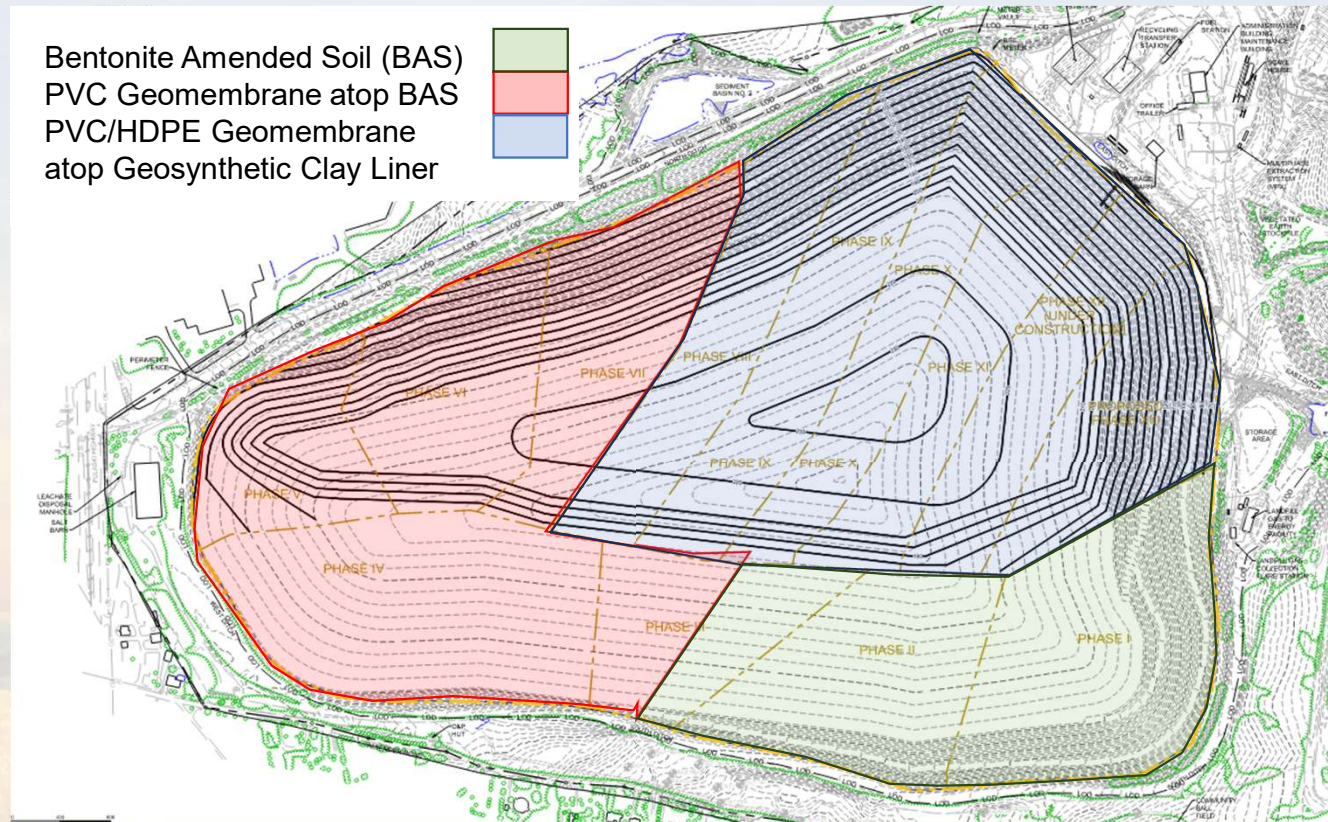
Existing Capacity

- Total Permitted Landfill Capacity = 23,475,000 CY of airspace
- Total Remaining Landfill Capacity = 5,676,000 CY of airspace
- Anticipated Lifespan = 2033
 - Based on Historical Density of 0.497 tons/cy (994 lbs/cy)
- Maximum Permitted Landfill Elevation = 192 feet above mean sea level (AMSL) per North American Vertical Datum of 1988 (NAVD 88)

* Data provided hereon is based on the Annual Tonnage Report for the Eastern Sanitary Landfill



Proposed Vertical Expansion: Conceptual Final Grading Plan



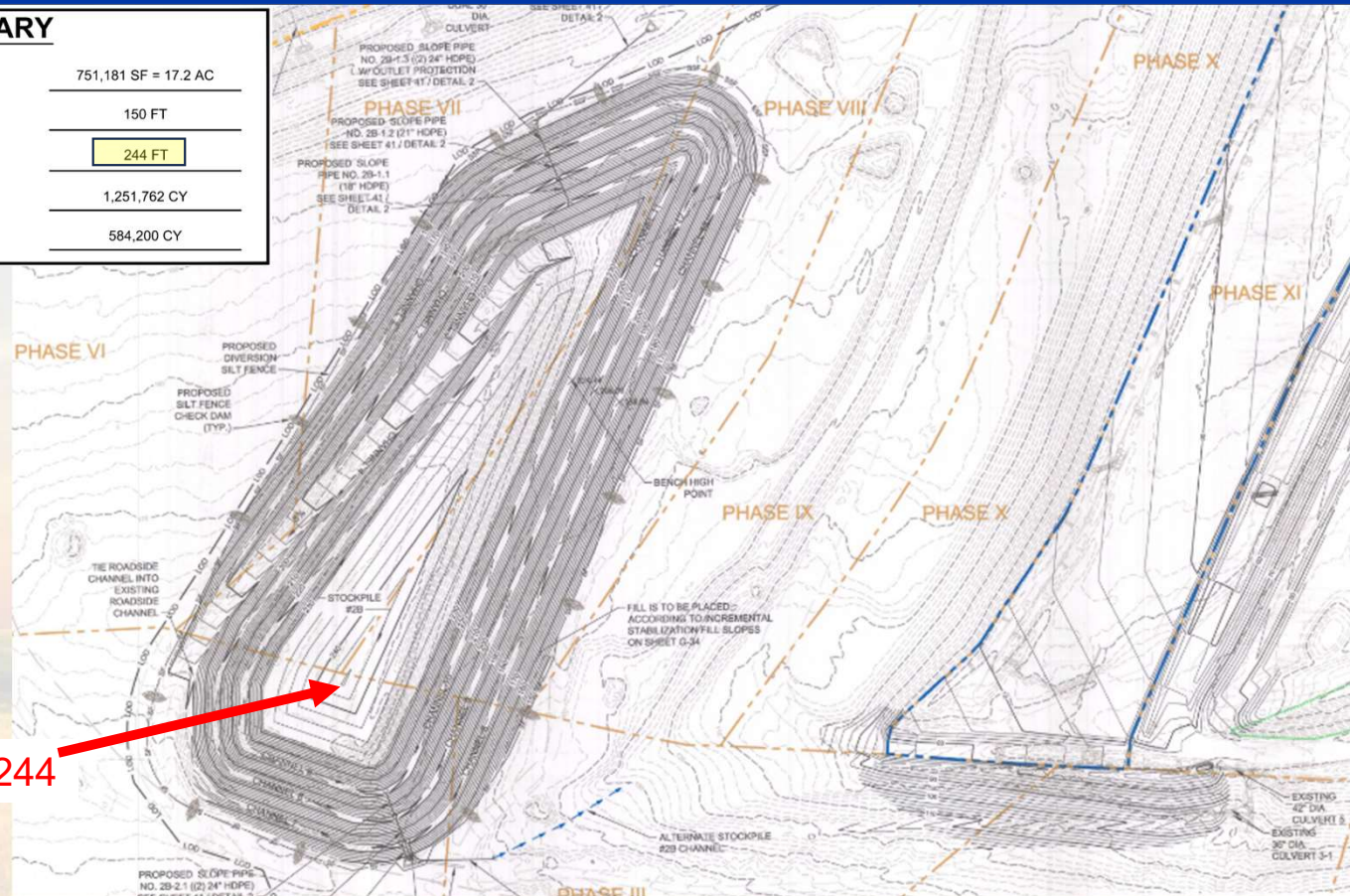
[Source: Expansion Feasibility Study Report, ARM Group LLC, December 18, 2020]

Note: The map legend provided herein was revised post public informational meeting to clarify the information provided herein to the reader.

Stockpile #2B

STOCKPILE SUMMARY

1) TOTAL AREA	751,181 SF = 17.2 AC
2) MINIMUM ELEVATION	150 FT
3) MAXIMUM ELEVATION	244 FT
4) TOTAL CAPACITY	1,251,762 CY
5) REMAINING CAPACITY	584,200 CY



Elevation 244

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Proposed Vertical Expansion Overview

- Footprint:
 - No proposed horizontal adjustments to the existing waste disposal limits
 - Elevates the Maximum Permitted Landfill Elevation
- Volume:
 - Yields increased capacity of ~5.9 MMCY of gross airspace
- Lifespan:
 - Extends the life of the landfill by ~7 years
 - Based on assumed waste disposal rate of 1,700 tons/day and waste density of 0.53 tons/cy (1,060 lbs/cy)