

June 26, 2026

Mr. Andrew Grenzer
MDE Solid Waste Operations
1800 Washington Blvd., Suite 605
Baltimore, MD 21230

**Subject: Phase I Report of the Permit Modification Application for the Proposed Expansion of
Garrett County Landfill (Control Number: 2025-WMF-0094B)
Oakland, Garrett County, Maryland**

Dear Mr. Grenzer:

Geosyntec, on behalf of Garrett County Solid Waste & Recycling Division, is pleased to present the Phase I Report for the Permit Modification Application for the proposed horizontal and vertical expansion of the Garrett County Landfill in Oakland, Garrett County, Maryland, under the MDE Refuse Disposal Permit No. 2023-WMF-0094A and MDE Control Number 2025-WMF-0094B. Two copies of the report have been included for your review and distribution.

Please feel free to contact either of us if you have any questions regarding this application.

Sincerely,



Daniel Espinoza
Professional



Carrie Pendleton, P.E.
Senior Principal

Copies to: Samuel Ogbogu, MDE
Martha Stauss, Maryland Environmental Service

Enclosure: Two copies of the Phase I Report for the Proposed Expansion of Garrett County
Landfill

Prepared for:

GARRETT COUNTY SOLID WASTE & RECYCLING DIVISION

203 South Fourth Street
Oakland, Maryland 21550

PHASE I REPORT

PROPOSED EXPANSION

APPLICATION FOR PERMIT MODIFICATION

MDE REFUSE DISPOSAL PERMIT 2023-WMF-0094A

MDE CONTROL NUMBER 2025-WMF-0094B

GARRETT COUNTY SOLID WASTE DISPOSAL AND

RECYCLING FACILITY

3118 OAKLAND SANG RUN ROAD

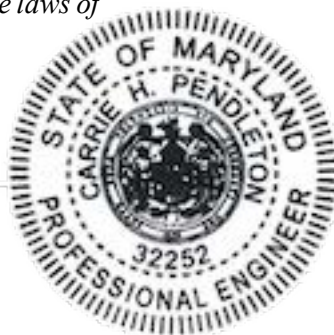
OAKLAND, MARYLAND

*Professional Certification: I hereby
certify that this document was approved
by me, and that I am a duly licensed
Professional Engineer under the laws of
the State of Maryland,*

License No. 32252

Expiration Date: 09/08/2027

C.H. Pendleton



Prepared by:

Geosyntec 
consultants

10211 Wincopin Circle, 4th Floor
Columbia, Maryland 21044

Project Number: ME2830

June 2026

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- Attachment 1: Refuse Disposal Permit Application Form
- Attachment 2: The Board of Garrett County Commissioners Conformance Letter
- Attachment 3: FAA Documentation
- Attachment 4: Property Owners Within 1,000-ft Radius of the Property

1. INTRODUCTION

1.1 Terms of Reference

The Code of Maryland Regulation (COMAR) of Water Supply, Sewage Disposal, and Solid Waste, COMAR 26.04.07, establishes the Maryland Department of the Environment (MDE) as the permitting authority for sanitary landfills within the State, and the process for submittal, review, and approval or denial of such permits. As described in COMAR 26.04.07, the first step to permit a new or expanded sanitary landfill is the submission of a Phase I report along with a request for a permit. In accordance with this requirement, this report is prepared to apply for a refuse disposal permit modification for the expansion of the Garrett County Solid Waste and Recycling Facility (Garrett County Landfill), located at 3118 Oakland Sand Run Rd, Oakland, Maryland. The Garrett County Landfill operates under MDE refuse disposal permit number 2023-WMF-0094A and control number 2025-WMF-0094B. This report is prepared by Geosyntec Consultants (Geosyntec) on behalf of the Garrett County Solid Waste & Recycling Division, the owner and operator of Garrett County Landfill.

This Phase I Report is organized in a manner that is intended to address the specific requirements of COMAR 26.04.07.06. The remainder of this report is organized as follows:

- Section 2 describes how this report addresses and meets the regulatory requirements for the Phase I report;
- Section 3 presents the current layout of the facility and topographic features;
- Section 4 presents a description of soils at the site and surrounding area;
- Section 5 briefly presents the geology of the site and surrounding area;
- Section 6 presents general information regarding the proposed expansion; and
- Section 7 presents relevant references.

1.2 Description of the Existing Landfill

The Garrett County facility is located at 3118 Oakland Sang Run Road, Oakland, Maryland. It is 3.5 miles north of the community of Oakland, between Deep Creek Lake and Garrett State Forest. The site is bounded on the west by Route 15 (Oakland Sang Run Road) and on the east by Roman Nose Mountain. The location of this facility, approximately 188 acres, is shown on the area map provided in Figure 1.

The Garrett County facility is comprised of five MSW cells (Cells 1 through 5) for disposal of general mixed residential, commercial, and non-hazardous industrial solid wastes, and two C&D cells (Cells A & B) for disposal of construction and demolition debris (C&D). Cells 1 through 5 have a footprint of approximately 32 acres. The Existing Garrett County Landfill opened in 1994.

2. PHASE I REPORT REQUIREMENTS

2.1 Overview

In this Section, a summary of the Phase I Report requirements is provided (in *italic type*), followed by a brief description of how the requirement is met or addressed in this report.

2.2 Phase I Report Requirements (COMAR 26.04.07.06.B)

- (1) *Completed and signed application form referenced in Regulation (26.04.07.05.B).*

The application form is included as Attachment 1. A letter from the County demonstrating that the proposed facility meets all applicable County zoning and land use requirements and is in conformity with the County Solid Waste Management Plan, as required by the application form, is included as Attachment 2.

- (2) *Current U.S.G.S. 7.5-minute quadrangle map with the proposed site outlined.*

An area map reproduced from the United States Geological Survey (USGS) 7.5-minute quadrangle map is shown in Figure 1.

- (3) *Current topographic map, which is an accurate depiction of the site at the time of application, at a scale not smaller than 1 inch equals 200 feet, which depicts the property boundaries, on-site buildings and structures, and pertinent surficial features including but not limited to: (a) Springs, (b) Seeps, (c) Streams, (d) Rock outcrops, (e) Sink holes, (f) Surface impoundments, (g) Water wells, (h) Forested areas, and (i) The location of any buried or overhead power transmission lines, utility pipelines, or storage tanks on the property.*

A current topographic map of the site is shown in Figure 2. The topographic map overlain by the proposed development conditions is shown in Figure 3. A narrative description of the topographic features is presented in Section 3 of this report.

- (4) *Map which depicts the surrounding zoning and land use within 1/2 mile of the site boundaries.*

Zoning of the surrounding area is shown in Figure 4. A narrative description is presented in Section 3 of this report.

- (5) *Map showing the distribution of the soils at the site.*

A U.S. Department of Agriculture (USDA) soil distribution map for the site and surrounding area is shown in Figure 5.

- (6) *Narrative description of the soils at the site.*

A narrative description of the soils at the site is presented in Section 4 of this report.

(7) *Map showing the geology at the site based on available data.*

The geology for Garrett County is shown in Figure 6. A zoomed in more detail version of the geology of Oakland Quadrangle is shown in Figure 7.

(8) *Narrative description of the geology at the site based on available data.*

A narrative description of the site geology is presented in Section 5 of this report.

(9) *Description of the proposed activity including: (a) Type of facility, (b) Area served, (c) Capacity, and (d) Types of waste accepted.*

A brief description of the proposed activity is provided in Section 6 of this report.

2.3 Federal Location Restrictions (40 CFR§258 Subpart B)

(1) *§ 258.10 Airport safety.*

The FAA's Notice Criteria Tool, available at oeaaa.faa.gov, was used to determine if the County is required to submit a notice of intention to the FAA to build a 171-ft tall landfill at the Garrett County Landfill (please note that the proposed height of the landfill is 2750 ft – North American Datum of 1983 (NAD83) and the ground elevation in the locations of the expansions are approximately at 2579 ft – NAD83). Based on the height and location of the landfill, it is not required to file a notice with the FAA. The report generated by the tool is provided as Attachment 3.

(2) *§ 258.11 Floodplains.*

Floodplains will be evaluated as part of the Phase II Report of this permit application.

(3) *§ 258.12 Wetlands.*

Wetlands will be evaluated as part of the Phase II Report of this permit application.

(4) *§ 258.13 Fault areas.*

Fault areas will be evaluated as part of the Phase III Report of this permit application.

(5) *§ 258.14 Seismic impact zones.*

Seismic impact zones will be evaluated as part of the Phase III Report of this permit application.

(6) *§ 258.15 Unstable areas.*

Unstable areas will be evaluated as part of the Phase III Report of this permit application.

2.4 Additional Requirements

In anticipation of further MDE requirements for submission of a Phase I Report, Geosyntec has included the following attachments to this report:

(1) *Property Owners within 1,000-ft Radius of the Property*

A tabulated list of property owners within a 1,000-ft radius of the property boundary is provided in Attachment 4. The list was compiled based on information provided by the Garrett County Tax Assessment Office, in particular Tax Map No. 65. Relevant portions of the map showing the location of the proposed landfill and the parcels/lots of land conservatively identified to be within (or just beyond) a 1,000-ft distance of the cell footprint are reproduced in Figure 4-1 included in Attachment 4.

(2) *Forest Delineation*

Per COMAR 08.19.02.01A, a unit of local government having planning and zoning authority must adopt a local forest conservation program which meets the standards of the Maryland Forest Conservation Act of 1991. However, per COMAR 08.19.02.01D, Garrett County is exempt from this regulation as long as the county maintains 200,000 acres or more of forested area. According to The Land Preservation, Park, & Recreation Plan (2022) prepared by Garrett County, approximately 284,457 acres of the County is forested. Therefore, a Forest Stand Delineation and Forest Conservation Plan are not required as part of this permit application.

3. SITE DESCRIPTION

The proposed development is within the existing Garrett County facility. The Garrett County facility is located at 3118 Oakland Sang Run Road, Oakland, Maryland. It is 3.5 miles north of the community of Oakland, between Deep Creek Lake and Garrett State Forest. The site is bounded on the west by Route 15 (Oakland Sang Run Road) and on the east by Roman Nose Mountain. The location of the facility is shown in Figure 1, which is reproduced from the USGS 7.5-minute series quadrangle map for Oakland, Maryland. The total area within the property boundary is approximately 188 acres.

The existing Garrett County Landfill opened in 1994 and consists of five lined cells, two stormwater ponds, and three leachate collection lagoons. Cells 1 and 2 are mounded together, as are Cells 3 and 4. Cell 5 was constructed in between, and encompassing, the mound of Cells 1 and 2, and the mounds of Cells 3 and 4. The site is currently accepting waste. Stormwater Ponds 1 and 2 are located to the north and south of the property, respectively. All three leachate collection lagoons are at the southern end of the property, two of which are covered.

The entrance to the facility is at the northwest corner. East of the entrance, along the access road, there is a scalehouse and a homeowner's drop off area. A maintenance road extends along the north and east sides of the property, continues around the perimeter of the landfill, and reconnects on the eastern side of the property. There is also a rubble cell on the eastern side of the property.

The current topography at the Garrett County facility is shown in Figure 2. The area proposed for development under this Phase I Report is bounded to the north by marsh lands, which comprise the wetland areas of Round Glade Run. West of the development area is Oakland Sang Run Road. The remaining surrounding area is predominantly rural area bounded by farms and timber stands. Based on review of the USGS topographic map, no sinkholes, seeps, springs, streams, or rocky outcrops are present on the site. No buried electrical lines, utility pipelines, or storage tanks are present on the property. However, there is an overhead electrical line that runs from the north along the outside of the maintenance road to the pump stations near the leachate collection lagoons.

Zoning in Garrett County is limited to the Deep Creek Watershed Area and six of the incorporated towns (Kitzmillers and Deer Park do not have zoning ordinances). The zoning ordinances do not have any provision for solid waste management facilities. As shown in Figure 4, there are three zones that are closest to the property, which are Lake Residential 1, Lake Residential 2, and Town Center. However, these areas are further than 0.5 mile from the property boundary. A letter documenting that the landfill meets all applicable zoning and land use requirements has been submitted to MDE/SWP, as shown in Attachment 2.

4. NARRATIVE DESCRIPTIONS OF SOILS

The USDA soil distribution map for the site and surrounding area is shown as Figure 5. According to the map, the proposed development area and the surrounding area have topsoils classified as loamy sand.

Between 1987 and 1988, Triad Engineering Consultants conducted three sets of boring investigations for Garrett County Landfill. In total, 12 borings were drilled to depths that ranged between 15 and 81 ft. The results are summarized in the 1988 Phase II report submitted by Schnabel Engineering Associates (Schnabel 1988). Schnabel divides the soil into five separate strata. Strata I, which ranges between 0 and 50 feet thick, is characterized as a brown and gray silty clay to sandy clay fill. Strata I is situated at existing grade with N values that range from 7 to 12. Strata II, which ranges between 0 and 15 feet thick, is characterized as gray sandy clay. Strata II is situated below portions of Strata I in the southeast section of the property, and transitions to existing grade in the north. Strata III, which ranges between 0 and 30 feet thick, is characterized as residual sandstone/siltstone and residual shale/coal. The residual sandstone/siltstone is a brown and gray silty to sandy clay with N values that range from 7 to 40. The residual shale/coal is brown and gray silty sandy clay with N values that range from 7 to 60+. Strata III is situated at existing grade, and transitions beneath Strata I and strata II. Strata IV, which ranges between 0 and 10 feet thick, is characterized as residual sandstone/siltstone and residual shale/clay-stone/coal. The residual sandstone is red, brown, and gray disintegrated rock with N values that range from 60 to 100+. The residual shale/clay-stone/coal is gray to black disintegrated rock with N values that range from 60 to 100+. Strata IV can be found beneath Strata III. Strata V is characterized as bedrock made of varicolored sandstone, with core recovery of 42 to 100%, and gray to black shale and coal rock, with core recovery 55 to 100%.

In 1989, CTL Engineering, Inc. conducted a boring investigation for Garrett County Landfill. In total, 10 borings were drilled to depths that ranged between 4 and 37 ft. The results indicated that the upper 5-10 ft of soil at the site is primarily stiff, dark clay with some boulders. The clay is underlain by shale, clayshale, or sandstone. The average grain size (d_{50}) ranged between 0.04 and 2 mm. Standard proctor tests were run, resulting in a range in optimum moisture content of 12.8 to 16.5%, with an average of 14.95%. The maximum dry density ranged from 110.6 to 116.7 pcf, with an average of 113.4 pcf. The liquid limit and plastic limit averages were 36 and 25, respectively.

Garrett County is planning to perform additional soil borings within and surrounding the expansion area as part of the Phase II exploration of the site. Results of this investigation will be presented in the Phase II Application Report.

5. NARRATIVE DESCRIPTION OF THE GEOLOGY

A brief overview of the regional and site geology, as well as the site groundwater is presented in this section. The Phase II Report of this permit application will provide more detailed information on these topics.

5.1 Regional Geology

The generalized geologic map of Garrett, Allegany, and western Washington Counties is shown in Figure 6. Garrett County is located entirely within the Appalachian Plateaus Province. The bedrock of this area is primarily comprised of gently folded shale, siltstone, and sandstone. Elongated arches across the region have been produced by folding; it exposes Devonian (416 to 359.2 million years ago) rocks at the surface. The majority of the natural gas fields in Maryland are related to these anticlinal folds. Coal-bearing strata of Pennsylvanian and Permian ages are preserved in the intervening synclinal basins.

5.2 Site Geology

A zoomed in version of the geologic map of the Maryland portion of the Oakland quadrangle is presented in Figure 7. Garrett County Landfill is located within the Youghiogheny River drainage basin. Secondary surface drainage is north, toward Round Glade Run, and south, toward an unnamed tributary to the Youghiogheny River. The site is underlain by the lower portion of the Glenshaw Formation (member of the Conemaugh Group) and the upper portion of the Allegheny/Pottsville Formations. Generally, these formations consist of sandstone, siltstone, and shale with coal in repeated sequence.

5.3 Site Groundwater

The main source of groundwater in Garrett County comes from precipitation in the form of rain and snow. Most of this water is directly removed by runoff along streams and drainage-ways. Some of the precipitation evaporated from the land surface or enters the soil zone and is taken up by plants. A portion of the water infiltrates the soil and permeates through the saprolite and rock to the water table. The sandstone, shale and coal beds of the Conemaugh and Allegheny Formations form a significant aquifer in Garrett County.

For the most part, the potentiometric surface and the groundwater movement reflects the site topography. The topography has two drainage divides and a central rounded knoll, the circumference of which has experienced erosion.

6. DESCRIPTION OF PROPOSED ACTIVITIES

The existing Garrett County Landfill serves as a municipal solid waste (MSW) landfill that serves Garrett County, MD. As explained in Section 1.2, the site is currently active and accepting waste with a permitted waste footprint of approximately 32 acres. The expansion footprint covers approximately 23 acres, bringing the total proposed waste footprint to approximately 55 acres. The current permitted disposal capacity is approximately 2.08 million cubic yards. The currently permitted maximum landfill elevation is 2720 ft-NAD83. The proposed expansion will also raise the maximum landfill elevation to 2750 ft-NAD83. The vertical and horizontal expansion will increase the disposal capacity to approximately 4.43 million cubic yards. The landfill, which is intended to serve only the residents and businesses of Garrett County, will continue to accept residential and commercial solid waste (household refuse and waste from businesses, stores, and offices), industrial waste, institutional waste, bulky waste (household appliances and white goods), land clearing debris and yard waste, mining waste, animal carcasses, litter, scrap tires, sewage sludge or septage, asbestos waste, and construction and demolition (C&D) debris.

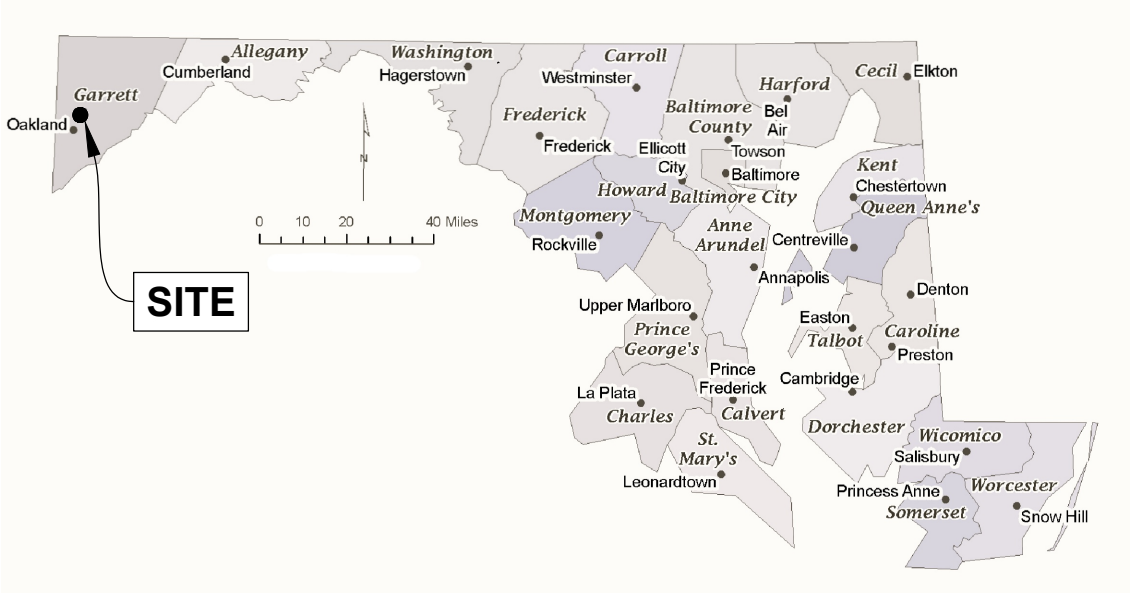
Garrett County Landfill is currently expected to run out of available permitted disposal capacity in 2032 (based on historical average yearly fill and compaction rates). Using the same metrics, the expansion will allow the landfill to operate and accept MSW until approximately 2095.

7. REFERENCES

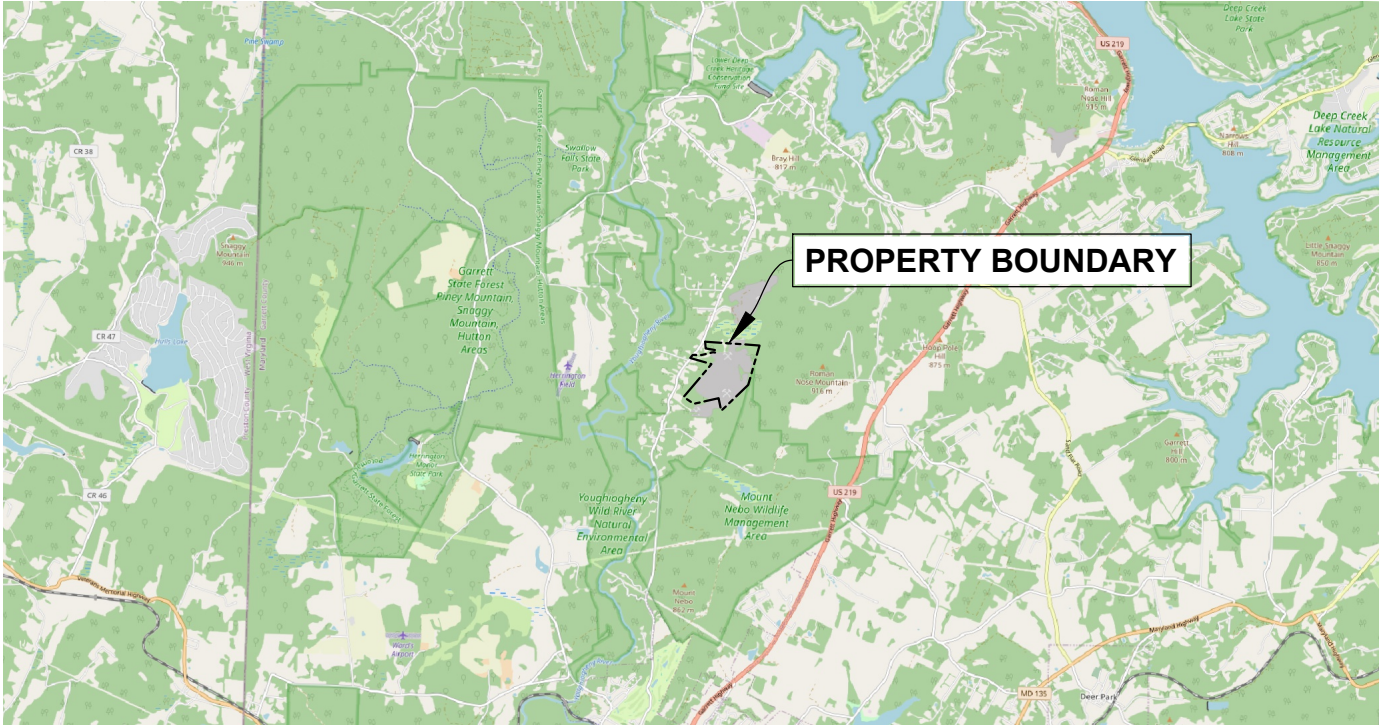
- Schnabel Engineering Associates (1988), “*Phase II Report, for the Proposed Garrett County Sanitary Landfill.*” Prepared for Garrett County Commissioners, Oakland, Maryland.
- Garrett County, Garrett County Mapping Dashboard, Geographic Information Systems. (<https://gis.garrettcounty.org/portal/apps/webappviewer/index.html?id=581f2b4cab634e35a15b9628c8088107>).
- Garrett County Government (2022), “*Land Preservation, Park, and Recreation Plan.*” Adopted June 20, 2022
- Brezinski, D.K., Adams, R.K. (2025), “Geologic Map of the Maryland Portion of the Oakland Quadrangle, Garrett County, Maryland.” Maryland Department of Natural Resources, 2025
- Brezinski, D.K., Conkwright, R. (2013), “*Geologic Map of Garrett, Allegany, and western Washington Counties, Maryland.*” Maryland Department of Natural Resources, 2013.
- Natural Resources Conservation Service, Soil Survey Staff, United States Department of Agriculture (<http://websoilsurvey.sc.egov.usda.gov/>.)
- Openstreetmap Contributors, (2023)
- USGS, 7.5 Minute Series Quad Map: Oakland, MD, 2023.

FIGURES

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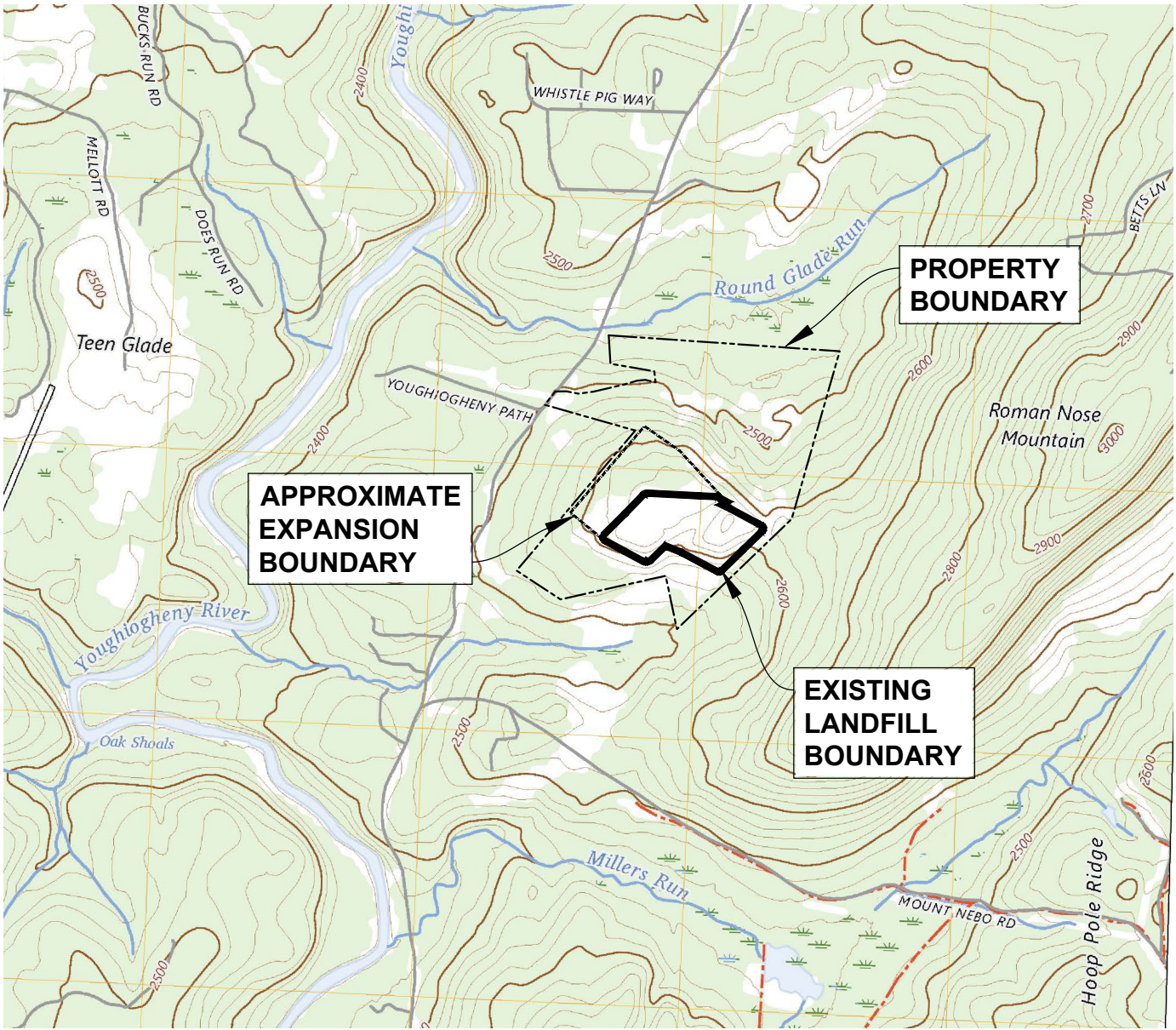


MAP OF MARYLAND



SOURCE:
©OPENSTREETMAP CONTRIBUTORS.

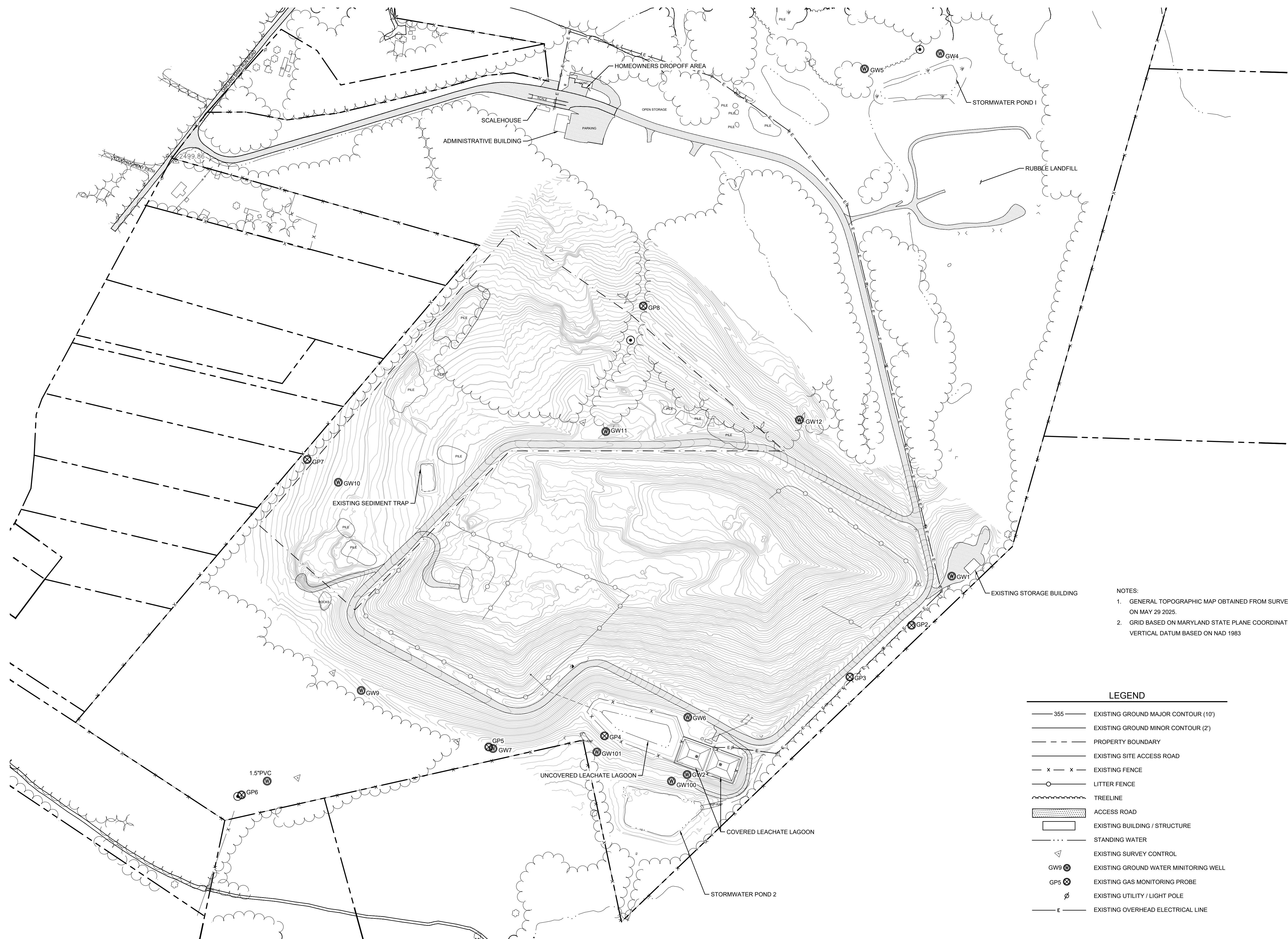
REGION MAP
1"=10,000'



SOURCE:
USGS 7.5 MINUTE SERIES QUAD MAP:
OAKLAND, MD (2023)

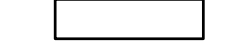
AREA MAP
1" = 2,000'

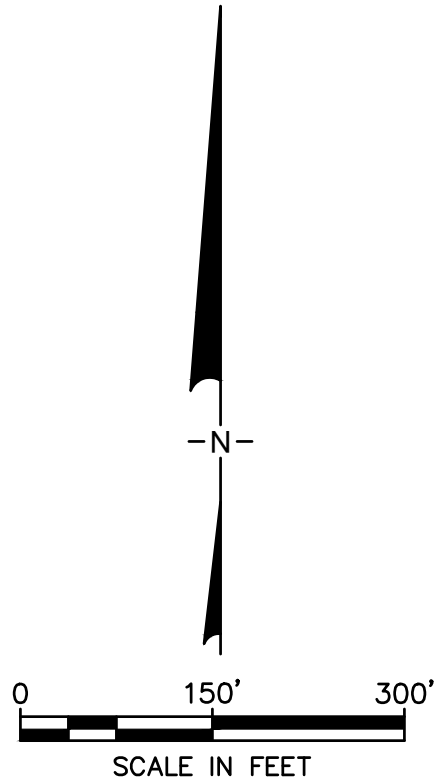
AREA MAP		
GARRETT COUNTY LANDFILL EXPANSION PHASE I PERMIT APPLICATION OAKLAND, MARYLAND		
		FIGURE 1
PROJECT NO: ME2830	JUNE 2026	



NOTES:

1. GENERAL TOPOGRAPHIC MAP OBTAINED FROM SURVEY CONDUCTED BY MESSERLY SURVEYING, INC. ON MAY 29 2025.
2. GRID BASED ON MARYLAND STATE PLANE COORDINATE SYSTEM NAD 1983. VERTICAL DATUM BASED ON NAD 1983

	EXISTING GROUND MAJOR CONTOUR (10')
	EXISTING GROUND MINOR CONTOUR (2')
	PROPERTY BOUNDARY
	EXISTING SITE ACCESS ROAD
	EXISTING FENCE
	LITTER FENCE
	TREELINE
	ACCESS ROAD
	EXISTING BUILDING / STRUCTURE
	STANDING WATER
	EXISTING SURVEY CONTROL
GW9 	EXISTING GROUND WATER MONITORING WELL
GPS 	EXISTING GAS MONITORING POPE
	EXISTING UTILITY / LIGHT POLE
	EXISTING OVERHEAD ELECTRICAL LINE



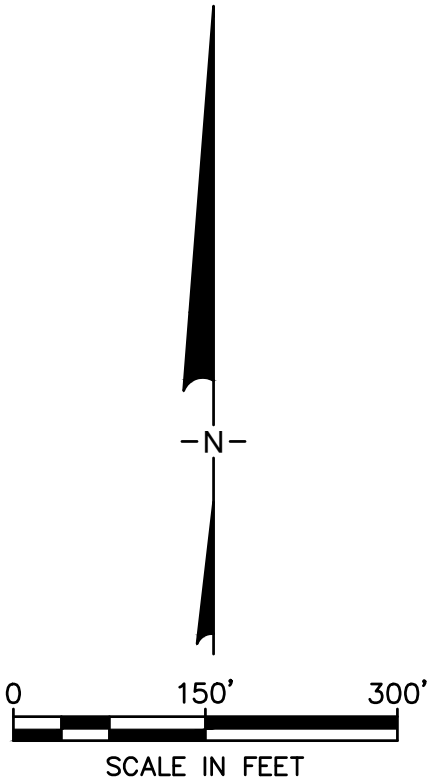
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- NOTES:
1. GENERAL TOPOGRAPHIC MAP OBTAINED FROM SURVEY CONDUCTED BY MES ON MAY 29 2025.
 2. GRID BASED ON MARYLAND STATE PLANE COORDINATE SYSTEM NAD 1983. VERTICAL DATUM BASED ON NAD 1983

LEGEND

- 2570— EXISTING GROUND MAJOR CONTOUR (10')
- EXISTING GROUND MINOR CONTOUR (2')
- 2720— PROPOSED FINAL GRADE MAJOR CONTOUR (10')
- PROPOSED FINAL GRADE MINOR CONTOUR (2')
- - - - - PROPERTY BOUNDARY
- EXISTING SITE ACCESS ROAD
- x - x - EXISTING FENCE
- o - LITTER FENCE
- ~~~~~ TREELINE
- ACCESS ROAD
- EXISTING BUILDING / STRUCTURE
- ... STANDING WATER
- EXISTING SURVEY CONTROL
- GW9 (W) EXISTING GROUND WATER MONITORING WELL
- GP5 (X) EXISTING GAS MONITORING PROBE
- Ø EXISTING UTILITY / LIGHT POLE
- . - . - APPROXIMATE EXPANSION BOUNDARY
- - - - - EXISTING OVERHEAD ELECTRICAL LINE



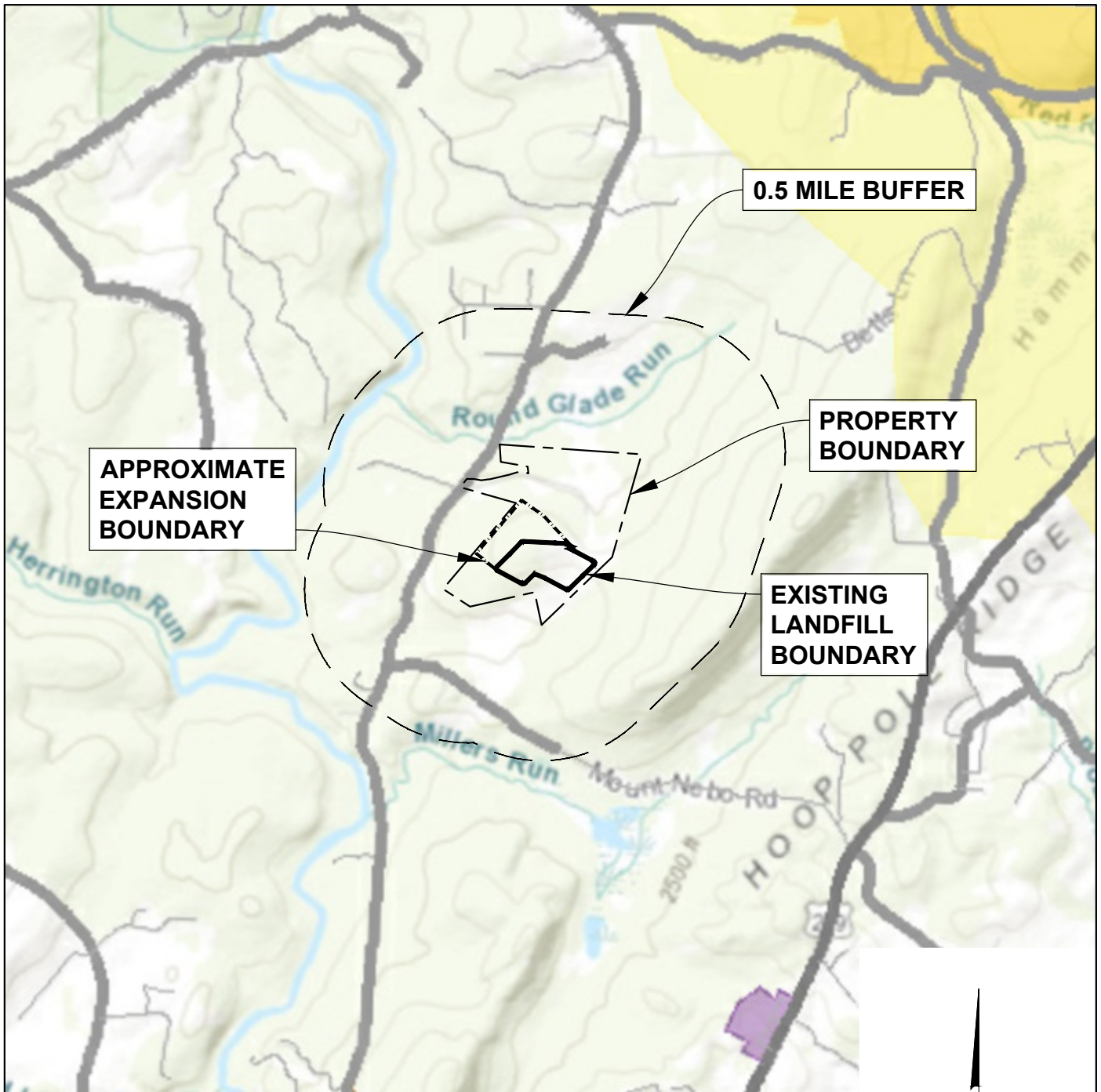
PROPOSED DEVELOPMENT PLAN
GARRETT COUNTY LANDFILL EXPANSION
PHASE I PERMIT APPLICATION
OAKLAND, MARYLAND



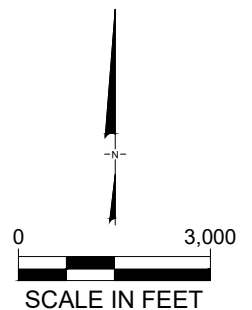
FIGURE

3

PROJECT NO: ME2638 JUNE 2026



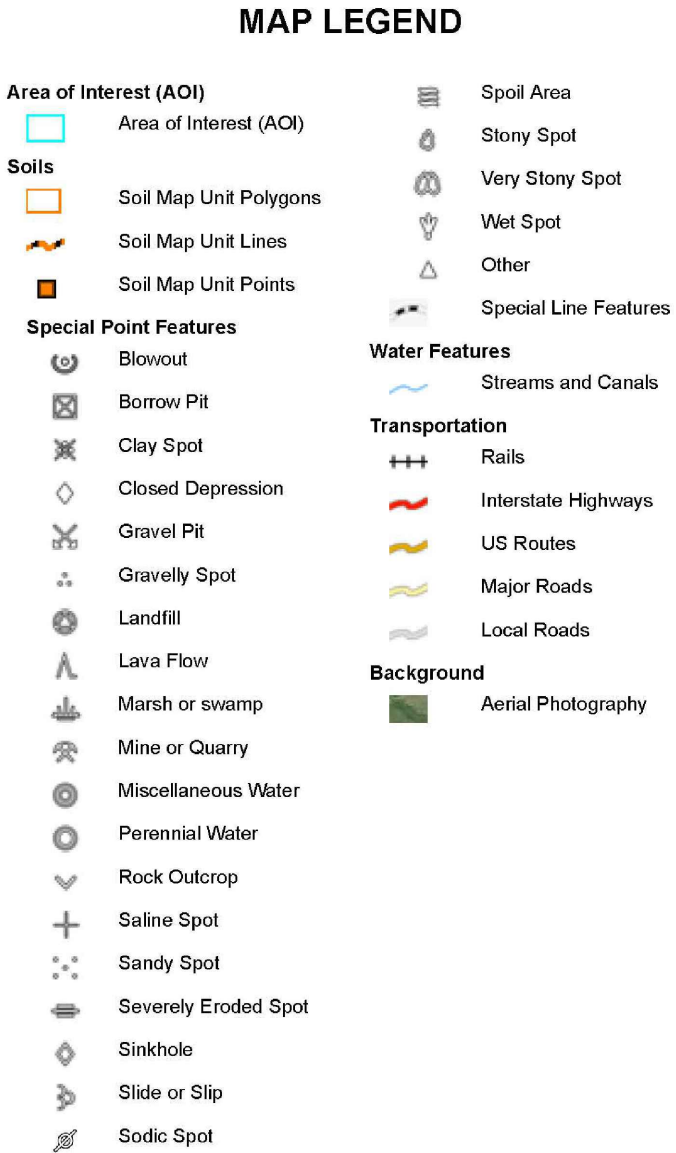
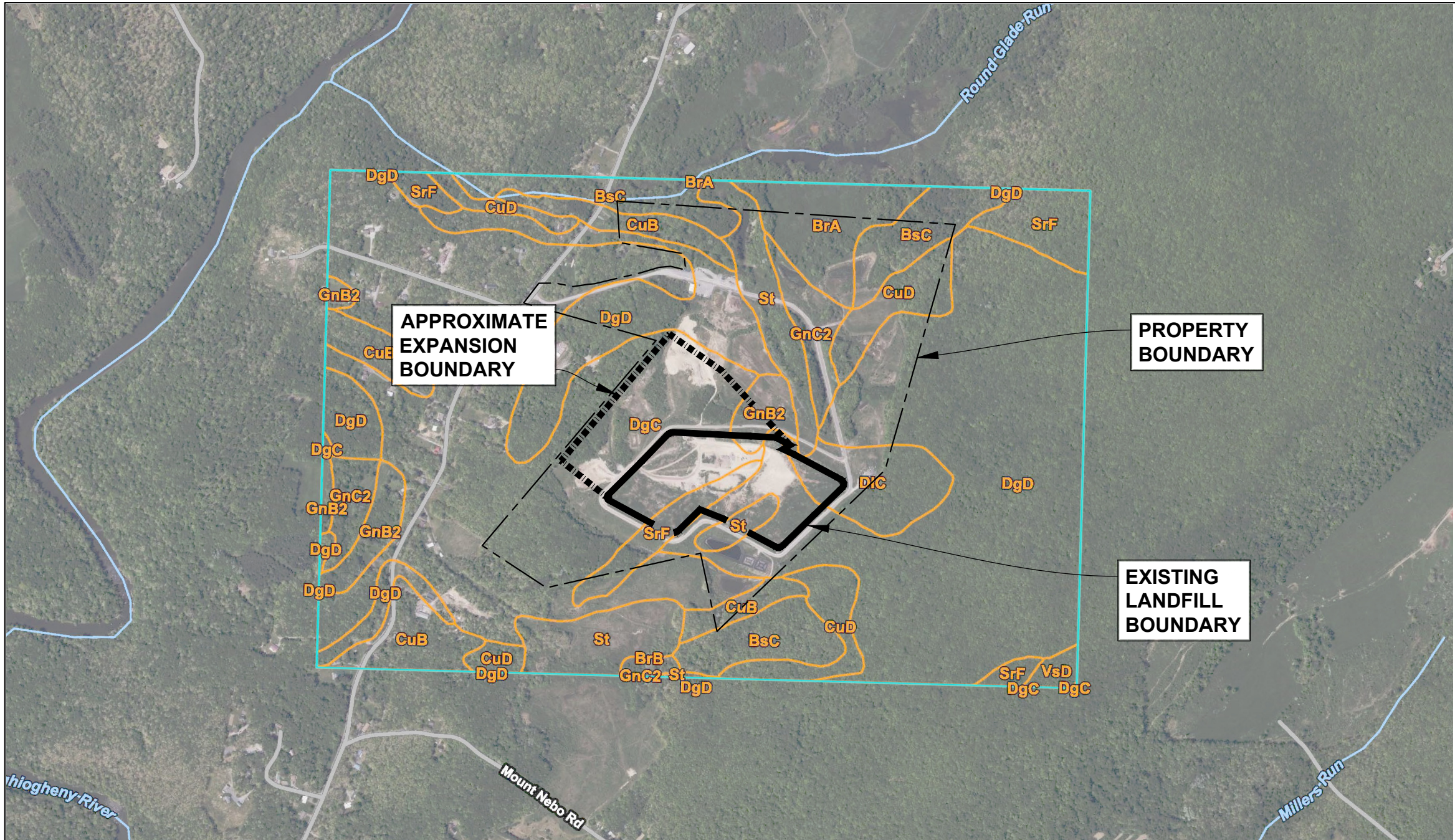
SOURCE:
GARRETT COUNTY MAPPING DASHBOARD
(GEOGRAPHIC INFORMATION SYSTEMS),
ACCESSED MAY 2025.



LEGEND	
	LAKE RESIDENTIAL 1
	LAKE RESIDENTIAL 2
	TOWN CENTER

ZONING MAP OF SURROUNDING AREA	
GARRETT COUNTY LANDFILL EXPANSION PHASE I PERMIT APPLICATION OAKLAND, MARYLAND	
	FIGURE 4
PROJECT NO: ME2830	JUNE 2026

C:\GEO-ACC\ACCD\OCS\GEOSYNTEC\GARRETT_CO_LF\PROJECT FILES\CADD\01_SWM-H\FG\FG\PHASE I\ME2638.01-F05WRK (SOIL) - Last Saved by: AMalek on 6/26/26

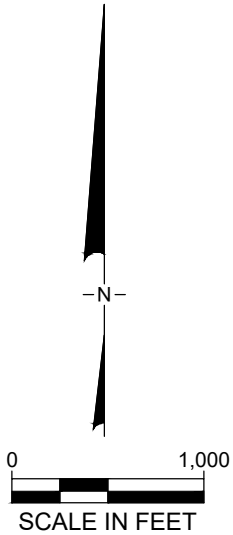


This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Garrett County, Maryland
Survey Area Data: Version 23, Sep 6, 2024

SOURCE:
SOIL SURVEY STAFF, NATURAL RESOURCES CONSERVATION SERVICE,
UNITED STATES DEPARTMENT OF AGRICULTURE. WEB SOIL SURVEY.
AVAILABLE ONLINE AT THE FOLLOWING LINK:
[HTTP://WEBSOILSURVEY.SC.EGOV.USDA.GOV/](http://websoilsurvey.sc.egov.usda.gov/). ACCESSED MAY 23, 2025.

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BrA	Brinkerton and Andover silt loams, 0 to 3 percent slopes	18.4	3.00%
BrB	Brinkerton and Andover silt loams, 3 to 8 percent slopes	1.7	0.30%
BsC	Brinkerton and Andover very stony silt loams, 0 to 15 percent slopes	36.7	6.10%
CuB	Cookport and Ernest very stony silt loams, 0 to 8 percent slopes	30.7	5.10%
CuD	Cookport and Ernest very stony silt loams, 8 to 25 percent slopes	25	4.10%
DgC	Dekalb and Gilpin very stony loams, 0 to 15 percent slopes	186.5	30.80%
DgD	Dekalb and Gilpin very stony loams, 15 to 25 percent slopes	203.2	33.60%
DIC	Dekalb and Leetonia very stony sandy loams, 0 to 15 percent slopes	16.9	2.80%
GnB2	Gilpin channery silt loam, 0 to 10 percent slopes, moderately eroded	14.7	2.40%
GnC2	Gilpin channery silt loam, 10 to 20 percent slopes, moderately eroded	14.6	2.40%
SrF	Stony land, steep	22.8	3.80%
St	Strip mines and dumps	31.7	5.20%
VsD	Very stony land, rolling	2.3	0.40%
Totals for Area of Interest		605.2	100.00%



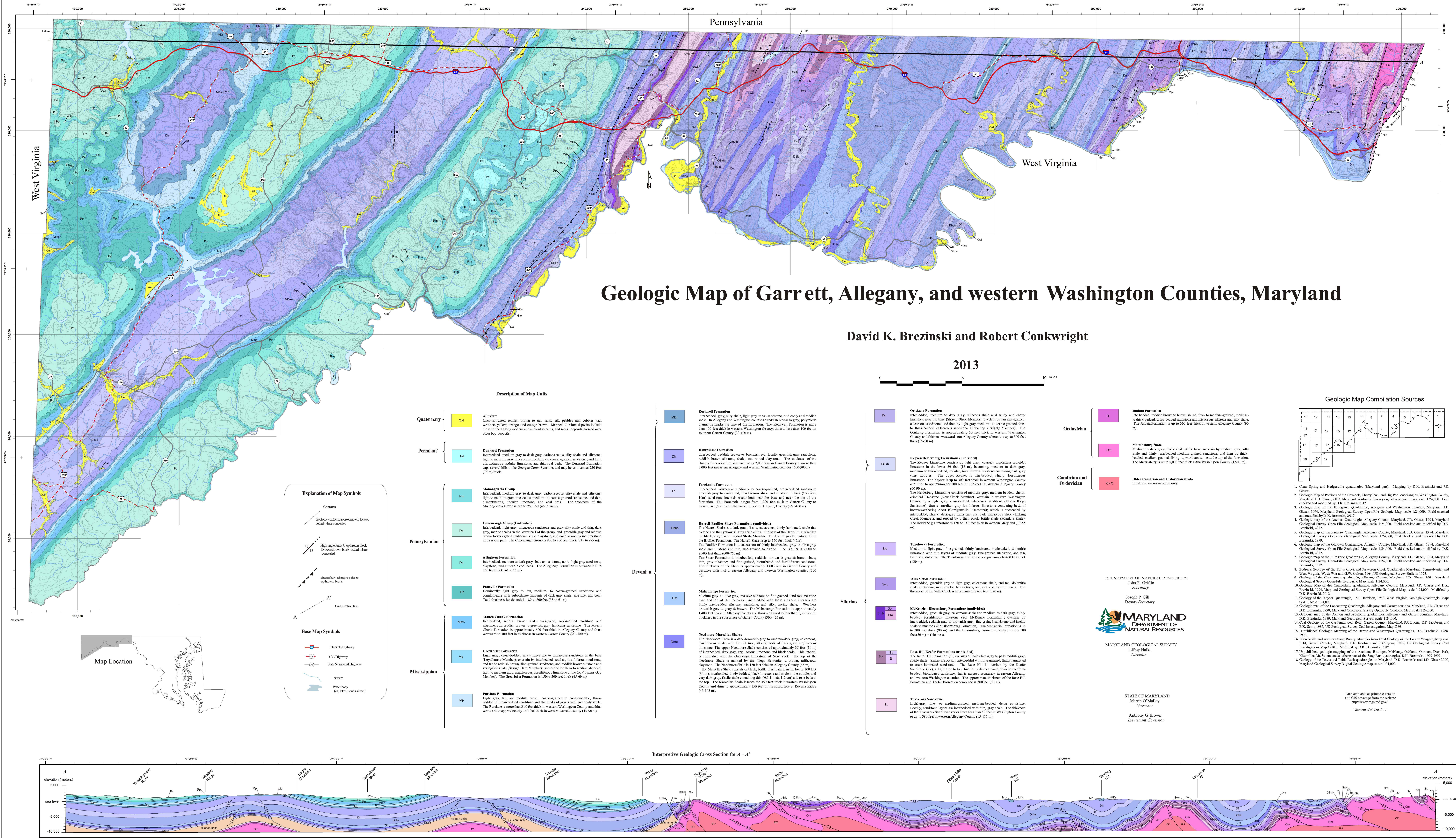
USDA SOIL DISTRIBUTION MAP

GARRETT COUNTY LANDFILL EXPANSION
PHASE I PERMIT APPLICATION
OAKLAND, MARYLAND

PROJECT NO: ME2830

JUNE 2026

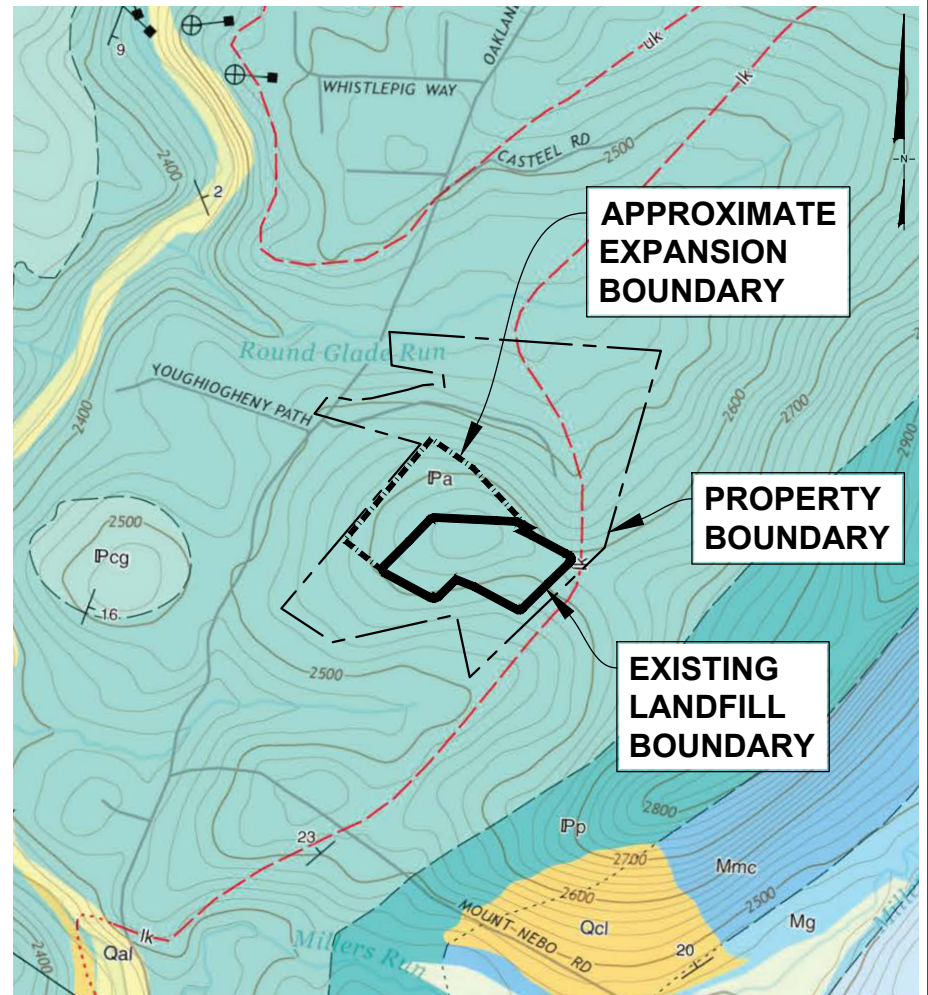
FIGURE
5



	Alluvium Pebbles, cobbles and boulders in a sandy matrix. Clasts weather yellowish orange and orange-brown. These deposits are present along both modern and ancient streams and may have a thick humic component near the top. Finer alluvium such as sand, silt and gravel underlies the stream channel where it is lower gradient, while steeper stream reaches are frequently floored by bedrock or locally derived cobbles and boulders. The thickness of alluvium varies from a thin veneer to more than 30 feet. These thicker accumulations tend to be concentrated where colluvium at the edge of valleys overlaps the alluvium.
	Colluvium/landslide Unconsolidated and unsorted boulders and cobbles present on steep slopes, or at the base of steep slopes, below outcrops of sandstone units. These deposits are largely the result of frost wedging or mass movement (i.e., landslide). Topographically, these accumulations exhibit an irregular upper surface, thin upslope and rarely have soil cover. Thickness ranges from several feet on steep slopes to more than 50 feet.
	Peatland and swamp deposits Unconsolidated, light to dark gray, organic-rich, sandy clay to fibrous peat. These materials accumulated in boggy, low-lying, poorly drained areas, and many are remnants of late Pleistocene glades or lakes. These histic sediments are water-logged during part or most of the year and are poor agricultural lands. Thickness ranges from less than three feet to nearly 10 feet.
	Glenshaw Formation Gray, tan-weathering, micaceous, medium- to coarse-grained, cross-bedded sandstone containing abundant coaly plant fragments; interbedded with gray, reddish gray, and locally reddish brown, silty shale, siltstone, light gray, bioturbated, non-marine limestone, and brittle, dark gray, fossiliferous, marine shale. The base of the Glenshaw Formation is placed at the top of the Upper Freeport coal bed. Coal beds locally mined from the Glenshaw Formation include the Brush Creek (bc) and Lower Bakerstown (lb). The Glenshaw Formation is approximately 350 feet thick.
	Allegheny Formation Interbedded, medium to dark gray shale and siltstone, and tan to light gray, coarse-grained, cross-bedded sandstone, with thin, light-gray claystones. The top of the formation is at the top of the Upper Freeport (uf) coal bed, and the base of the formation is the top of the white, massive, conglomeratic Homewood Sandstone of the underlying Pottsville Formation. The Lower (lk) and Upper Kittanning (uk) coal beds are locally mined and mapped in the quadrangle based on previous coal bed investigations (Baker-Wibberley and Associates, Inc., 1977). The Allegheny Formation is approximately 250 to 300 feet thick.
	Pottsville Formation Dominantly tan to light grayish brown, medium- to coarse-grained, cross-bedded sandstone and conglomeratic sandstone with abundant coaly plant fragments and thin intervals of dark gray, coaly shale, siltstone, or coal beds. The massive, pebbly to granular, light gray, highly cross-bedded Homewood Sandstone constitutes a resistant, mappable sandstone layer at the top of the formation whose top demarcates the top of the formation. Total thickness for the unit is 200 to 250 feet.
	Mauch Chunk Formation Interbedded, reddish brown shale, variegated mudstone and siltstone, and reddish brown to greenish gray, medium-grained, micaceous sandstone. Sandstone intervals are lenticular, cross-bedded, exhibit sharp bases, and fine upsection. Several thin, greenish gray, marine calcareous shale to argillaceous limestone units are present near the base of the formation. The Mauch Chunk Formation is approximated at 400 feet in thickness in the Oakland Quadrangle.

LEGEND

Contacts  Geologic contact; existence certain, location approximate, dotted where concealed	 Inclined joint strike and degree of dip shown  Vertical joint strike shown	Transportation  Primary route (undivided)  Secondary route  Light duty road or street, class 3  Coal Beds  Projected outcrop trace of coal bed, dotted where concealed	Topography  Topographic index contour (100-ft interval)  Topographic intermediate contour (20-ft interval) Hydrography  Stream
Planar Features  Inclined bedding strike and degree of dip shown  Horizontal bedding			



SOURCE: GEOLOGIC MAP OF THE MARYLAND PORTION OF THE OAKLAND QUADRANGLE, GARRETT COUNTY, MARYLAND, MARYLAND DEPARTMENT OF NATURAL RESOURCES, 2025



GEOLOGIC MAP OF GARRETT COUNTY LANDFILL

PHASE I PERMIT APPLICATION OAKLAND, MARYLAND

Geosyntec
consultants

PROJECT NO: ME2830

JUNE 2026

FIGURE

7

ATTACHMENT 1

REFUSE DISPOSAL PERMIT APPLICATION FORM

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Land and Materials Administration • Solid Waste Program
1800 Washington Boulevard • Suite 605 • Baltimore Maryland 21230-1719
410-537-3315 • 800-633-6101 x3315 • www.mde.maryland.gov

Refuse Disposal Permit Application

Authority: Title 9, Environment Article, Annotated Code of Maryland, and Code of Maryland Regulations (COMAR) 26.04.07
Municipal landfills also see 40 CFR Part 258 and EPA guidance for additional requirements.

Application for: ☒ New Permit ☐ Renewal Permit

Existing Permit No.: 2023-WMF-0094A Issued Date: 07/18/2023 Expiration Date: 07/17/2028

Applicant's Legal Name: The Board of County Commissioners of Garrett County, Maryland

Applicant's Status: ☐ Individual ☐ Corporation ☒ Government ☐ Other:

Federal Employer Identification No.: 52-6003011

Maryland State Department of Assessments and Taxation (SDAT) ID No.: 30001193

Please note that a business/entity must be registered to do business in Maryland before a permit can be issued.
The business or entity's information provided in this application must match the information in the SDAT register.

Proof of workers' compensation coverage is required under § 1-202 of the Environment Article. Please provide one of the following:

(1) A copy of a Certificate of Compliance issued by the Maryland Workers' Compensation Commission; or

(2) Workers' Compensation Insurance Policy/Binder Number: WCP7009841

Applicant's Mailing Address: 203 South Fourth Street, Room 207 City: Oakland State: MD Zip Code: 21550

Applicant's Telephone No.: (301) 387-0322 Applicant's Email: pkight@garrettcountrymd.gov

Emergency Contact Name & Title: Patrick Kight, Division Chief Telephone No.: (301) 387-0322

Facility/Site Name: Garrett County Solid Waste Disposal & Recycling Facility

Facility/Site Address: 3118 Oakland Sang Run Road City: Oakland State: MD Zip Code: 21550

County: Garrett County Maryland Grid Coordinates: 635 585 N / 124 000 E

County Zoning Map No.: 65 Grid 15 Lot/Parcel No.: 15/33 and 113 Deed/Liber/Folio No.: 542/330, 542/326

State Legislative District: 01A Local Council / Election District: ED#14

Bay Tributary Watershed Code: 05020201 Latitude/Longitude (decimal degrees): 39.4681 °, -79.3997 °

Site Acreage: 188.0 Facility Acreage (estimated): 55.0

Type of Solid Waste Acceptance Facility

☒ Municipal Landfill ^{1,4} ☐ Rubble Landfill ^{1,3,4} ☐ Industrial Landfill ^{1,4} ☐ Land Clearing Debris Landfill ¹
☐ Incinerator ^{1,2,4} ☐ Transfer Station ¹ ☐ Processing Facility ² ☐ Processing Facility & Transfer Station ^{1,2}

Notes: 1. Financial Security is required for a privately owned facility. 2. Air Quality Permit may be required. 3. Groundwater Discharge Permit may be required.

4. Environmental Justice Score Required refer to <https://mdewin64.mde.state.md.us/EJ/>

Proposed Days & Hours of Operation: Monday - Friday 8:00 a.m. - 3:30 p.m.; Saturday 8:00 a.m. - 12:00 p.m.

Provide a brief description of solid waste handling and other activities to be conducted at this facility:

Activities to be conducted at this facility include landfilling and citizen drop off center

Once an application is received, MDE will initiate correspondence to obtain the following required documentation prior to permit issuance:

A written statement from the County in which the proposed facility is to be located, demonstrating that the proposed facility meets all applicable County zoning and land use requirements and is in conformity with the County Solid Waste Management Plan, in accordance with §9-210(a)(3) of the Environment Article.

For an incinerator, a written statement from the County where the proposed facility is to be located, demonstrating that the County has an approved Recycling Plan in accordance with §9-204.1 and §9-505 of the Environment Article.

For a rubble landfill, a written statement from the County in which the proposed facility is to be located, demonstrating that the County has specified in the County Solid Waste Plan the types of waste that may be disposed of in the facility, in accordance with §9-210(c) of the Environment Article.

Provide the estimated amount of solid waste to be accepted in tons (tn) or cubic yards (CY) from the following facilities and sources:

A. Intermediate Facilities:

Processing Facilities: None
Transfer Stations: None
Incinerators: None

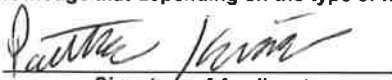
B. Origin of Waste by Region:

Within Jurisdiction: 100%
Out-of-County in Maryland: None
Out-of-State (specify name): None

Please indicate the estimated amount of solid waste in Tons (T) or Cubic Yards (CY) to be accepted at this facility. This list will be used to determine the type of permit and the list of acceptable materials that will be allowed under the permit for which you are applying.

Type of Waste	1 st Year (units)	5 th Year (units)
Residential (household refuse, domestic waste, garbage, etc.)	12,000 Tons	12,500 Tons
Commercial (waste from businesses, stores, offices, etc.)	10,000 Tons	10,500 Tons
Industrial (non-hazardous sludge, dust, off-spec products, etc. from industrial or manufacturing operations or processes)	100 Tons	100 Tons
Construction and Demolition (lumber, masonry, drywall, etc.)	9,500 Tons	9,500 Tons
Land Clearing Debris (stumps, limbs, leaves, earthen material, etc.)	1,500 Tons	1,500 Tons
Agricultural (crop residue, manure, unprocessed materials, etc.)	20 Tons	20 Tons
Institutional (non-hazardous waste from schools, hospitals, etc.)	100 Tons	100 Tons
Special Medical Waste (infectious waste from hospitals, doctor's offices, research labs, etc.)	None	None
Animal Carcasses (road kills, farm animals, etc.)	1 Ton	1 Ton
Bulky Waste (appliances, furniture, etc.)	50 Tons	50 Tons
Litter (street sweepings, municipal wastebaskets, etc.)	10 Tons	10 Tons
Scrap Tires (automobiles, trucks, etc.) - Requires a separate license for handling or managing tires.	35 Tons	35 Tons
Sewage Sludge or Septage - Requires separate permit for sewage sludge utilization.	500 Tons	500 Tons
Water Treatment Plant Sludge (alum precipitate, etc.)	None	None
Hazardous Waste (from chemical plants, gas stations, etc.)	None	None
Asbestos (shingles, insulation, etc.) - Requires special training and handling	10 Tons	10 Tons
Incinerator Ash (from incinerators, waste-to-energy incinerators, special medical waste incinerators, boilers, etc.)	None	None
Fly Ash (pollution abatement equipment dusts & bottom ash from coal fired electric generating plants)	None	None
Other (list):	None	None
Total	33,826 Tons	34,826 Tons

By signing this form, I the applicant or duly authorized representative, do solemnly affirm under the penalties of perjury that the contents of this application are true to the best of my knowledge, information, and belief. I hereby authorize the representatives of MDE to have access to the site of the proposed facility for inspection and to records relating to this application at any reasonable time. I acknowledge that depending on the type of facility applied for, other permits or approvals may be required.


Signature of Applicant

Patrick Kight

Applicant's Name (print)

3-24-2026
Date

Division Chief of Garrett County Dept. of Solid Waste & Recycling

Title

This Notice is provided pursuant to §10-624 of the State Government Article of the Maryland Code. The personal information requested on this form is intended to be used in processing your application. Failure to provide the information requested may result in your application not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment ("MDE") is a public agency and subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by Federal or State law.

Privacy Act Notice: This Notice is provided pursuant to the Federal Privacy Act of 1974, 5 U.S.C. §552.a. Disclosure of your Social Security Number or Federal Employer Identification Number on this application is mandatory pursuant to the provisions of §1-203 (2003), Environment Article, Annotated Code of Maryland, which requires the MDE to verify that an applicant for a permit has paid all undisputed taxes and unemployment insurance. Social Security or Federal Employer Identification Numbers will not be used for any purposes other than those described in this Notice.



MDEnviroScreen Report

Census Tract ID: 24023000601

County: Garrett



MDEnviroScreen Summary

EJ Score: 22.8

Overburdened Community: No

Underserved Community: Yes

MDEnviroScreen EJ Score Indicators

Pollution Burden Exposure		Pollution Environmental Effect		Sensitive Population	
<u>Indicator</u>	<u>Percentile</u>	<u>Indicator</u>	<u>Percentile</u>	<u>Indicator</u>	<u>Percentile</u>
PM 2.5	1	Lead Paint	58.8	Low Birth Weight	45
Ozone	2.6	RMP Facility	0	Asthma Discharge	69.2
Diesel PM	0.4	Superfund	0	Myocardial Infarction	52.3
Cancer Risk	0.2	Hazardous Waste	0	Lack of Broadband	82.8
Respiratory Hazard	0.2	Wastewater	16.7	Low Income*	74.8
Traffic	3.8	Brownfield	53	*Low Income is included in Underserved but grouped into Sensitive Population for EJ Score Calculation	
Toxic Release	20.4	Power Plant	0		
Hazardous Landfill	0	CAFO	0		
		Mining	72		

*The MDEnviroScreen EJ score represents a combined measure of pollution and the potential vulnerability of a population to the effects of pollution. The EJ score in MDEnviroScreen does not include data from every available map layer. For example, it does not include race/ethnicity or age, however, MDE has made that information available for informational purposes only. Collecting and displaying this data allows users to evaluate the relationships between demographics and pollution burden, and can be used to better understand issues related to environmental justice and racial equity in Maryland. MDE cautions users against using the "Underserved" map layer, or its subcategories, in any manner that would be considered discriminatory under applicable law.

ATTACHMENT 2

THE BOARD OF GARRETT COUNTY COMMISSIONERS LETTER OF CONFIRMITY

THE BOARD OF GARRETT COUNTY COMMISSIONERS

203 South Fourth Street - Courthouse - Room 207 Oakland, Maryland 21550

www.garrettcountry.org countycommissioners@garrettcountry.org

301-334-8970

301-895-3188

FAX 301-334-5000

Board of Commissioners

Paul C. Edwards

Ryan S. Savage

S. Larry Tichnell

County Administrator

Kevin G. Null

County Attorney

Gorman E. Getty III

Rick Kessler, Director
Land and Materials Administration (LMA)
Maryland Department of the Environment
1800 Washington Blvd
Baltimore, MD 21230

December 18, 2025

Reference: Control Number-2025-WMF-0094B

Dear Mr. Kessler,

We have reviewed the proposed Garrett County solid waste expansion facility, and the proposed facility meets all applicable County zoning and land use requirements. The expansion facility is also in conformity with the County's solid waste management plan.

Please continue processing the permit application.

Regards,



Paul C. Edwards
Chairman

cc: Patrick Knight, Division Chief, Solid Waste

ATTACHMENT 3

FAA DOCUMENTATION

OE/AAA Pre-screening Results

Wed Jun 11 2025 18:16:43 GMT-0400 (Eastern Daylight Time)

Structure: Existing Municipal Solid Waste Landfill

Latitude	Longitude	Height	Site Elevation	AMSL
39 28 05.10 N	79 23 43.13 W	114	2636	2750
39 28 00.532 N	79 24 05.03 W	171	2579	2750
39 28 09.37 N	79 23 55.77 W	140	2610	2750
39 27 58.76 N	79 24 01.06 W	150	2600	2750

Based on the information you provided, you are not required to file notice with the FAA.



ATTACHMENT 4

PROPERTY OWNERS WITHIN 1,000-FT
RADIUS OF THE PROPERTY

Attachment 4
Property Owners Within 1,000 ft of the Property
Oakland, Maryland

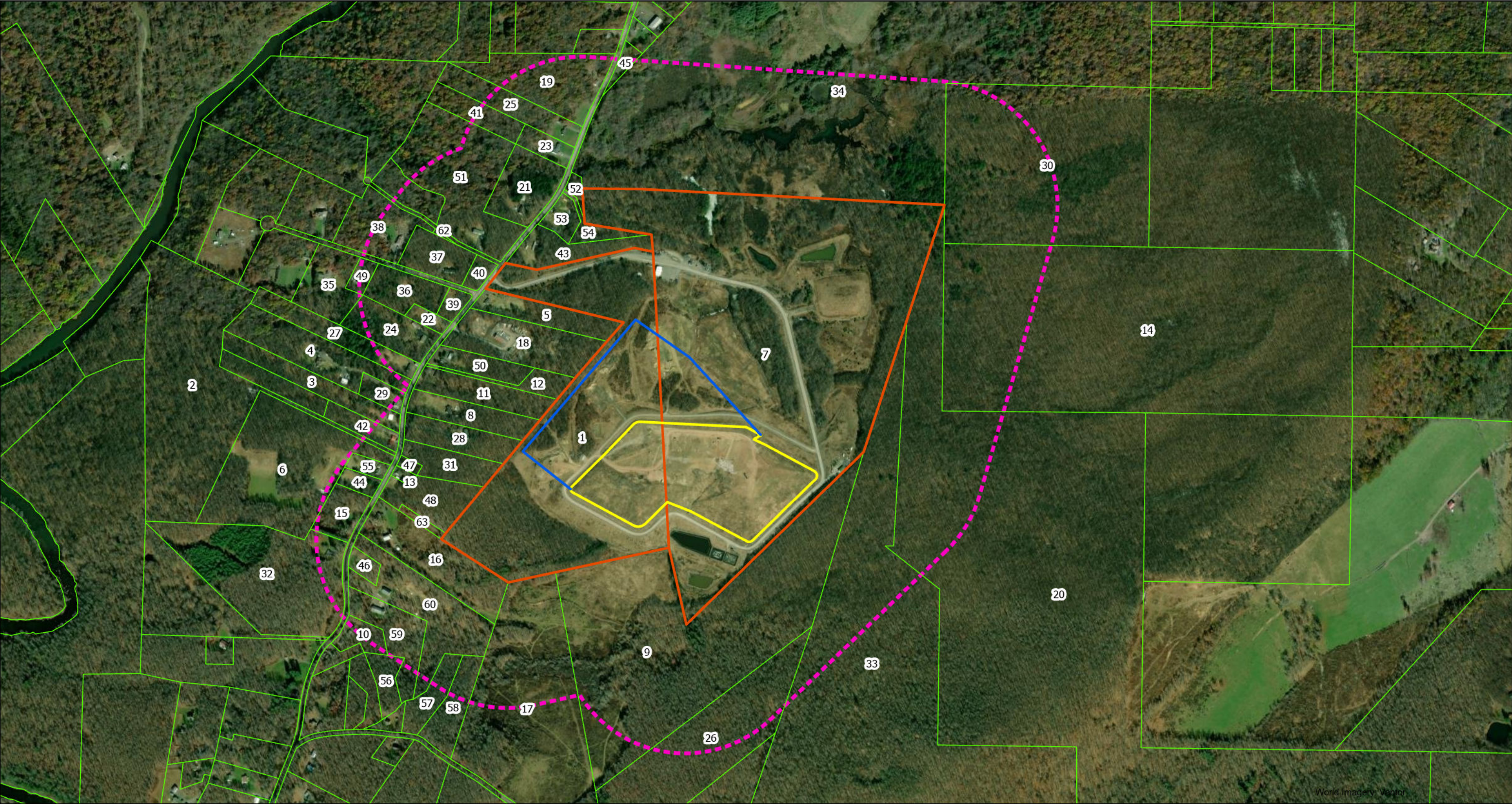
NO.	OWNER NAME	STREET LOCATION ¹	LOT	PARCEL
1	GARRETT CO BRD OF CO COMMISSIONERS	3118 OAKLAND SANG RUN RD		0113
2	MD STATE OF DEPARTMENT OF NATURAL			0145
3	FRIEND GABRIEL	2835 OAKLAND SANG RUN RD		0094
4	HINEBAUGH STEVEN D	2867 OAKLAND SANG RUN RD		0138
5	REAMS NORMAN T JR	3058 OAKLAND SANG RUN RD		0101
6	HEBDEN WILFRED C	2765 OAKLAND SANG RUN RD		0031
7	GARRETT CO BRD OF CO COMMISSIONERS	3118 OAKLAND SANG RUN RD		0033
8	BEEMAN KEVIN S	2878 OAKLAND SANG RUN RD		0126
9	WEIMER EVERETT B JR			0052
10	HELBIG COURTLAND JOSEPH	2474 OAKLAND SANG RUN RD		0053
11	WILLIAMS DENNIS CLEON JR	2918 OAKLAND SANG RUN RD		0104
12	MOLEK SUSIE L	2948 OAKLAND SANG RUN RD		0103
13	HEBDEN ALMA M	2754 OAKLAND SANG RUN RD		0105
14	FRIEND RICHARD E LIFE INT			0035
15	FRIEND BETH A	2657 OAKLAND SANG RUN RD		0032
16	HELBIG TONYA	2680 OAKLAND SANG RUN RD		0075
17	VANMETER ASHLEY NICOLE LIFE INT	449 MOUNT NEBO RD		0076
18	KURILLA JOHN J	2986 OAKLAND SANG RUN RD		0114
19	ESTILL TAMMY L LIFE INT	3431 OAKLAND SANG RUN RD		0091
20	ALCAR LLC	414 FORREST DOBBINS RD		0034
21	OWENS GARY	3209 OAKLAND SANG RUN RD		0022
22	SHOPE DAVID A	2993 OAKLAND SANG RUN RD		0149
23	FRIEND ALLEN R	3319 OAKLAND SANG RUN RD		0142
24	DURST KELSEY J	2963 OAKLAND SANG RUN RD		0030
25	FRIEND ALLEN R	3345 OAKLAND SANG RUN RD		0021
26	HELBIG EUGENE D	471 MOUNT NEBO RD		0063
27	MAYLE LINDA S	2911 OAKLAND SANG RUN RD		0092
28	MANGAN DWIGHT E	2820 OAKLAND SANG RUN RD		0123
29	DOERR ASHELY N	2855 OAKLAND SANG RUN RD		0093
30	SKIPPER JORDAN GAIL			0024
31	MANGAN DWIGHT E			0135
32	FERNANDEZ JAMES V	2603 OAKLAND SANG RUN RD		0045
33	MD STATE OF GAME & INLAND FISH COM	1728 KINGS RUN RD		0001
34	GARRETT CO COMMISSIONERS			0078
35	HOLLAND JAMES H	215 YOUGHIOGHENY PATH	8	0196
36	CHESTER RIVER JOINT VENTURE INC	105 YOUGHIOGHENY PATH	9	0196
37	LONG THOMAS A	68 YOUGHIOGHENY PATH	4	0196
38	KOPE FRANK A	182 YOUGHIOGHENY PATH	3	0196
39	WELCH H ROGER	33 YOUGHIOGHENY PATH	10	0196
40	LONG THOMAS A	68 YOUGHIOGHENY PATH	5	0196

Attachment 4
Property Owners Within 1,000 ft of the Property
Oakland, Maryland

NO.	OWNER NAME	STREET LOCATION ¹	LOT	PARCEL
41	FRIEND ALLEN R			0027
42	RATLIFF JUSTIN A	2793 OAKLAND SANG RUN RD		0242
43	TUSING POINT LLC	3172 OAKLAND SANG RUN RD		0254
44	DEVLIN SUSAN L	2715 OAKLAND SANG RUN RD		0257
45	MRSO ALEN	3482 OAKLAND SANG RUN RD		0261
46	WEIMER EVERETT B JR	2598 OAKLAND SANG RUN RD		0270
47	REAM PEGGY L	2784 OAKLAND SANG RUN RD		0280
48	HEBDEN WILFRED C			0047
49	HOLLAND JEDIDIAH CARSON	181 YOUGHIOGHENY PATH	8	0196
50	MOLEK SUSIE L	2948 OAKLAND SANG RUN RD		0059
51	TASKER JAMES G	3131 OAKLAND SANG RUN RD		0137
52	BROCK PAUL G			0405
53	BROCK PAUL G	3230 OAKLAND SANG RUN RD		0406
54	PACIFIC PREMIER TRUST	3262 OAKLAND SANG RUN RD		0407
55	HEBDEN WILFRED C	2745 OAKLAND SANG RUN RD		0037
56	PRELL GEORGE P JR		3	0053
57	HELBIG COURTLAND JOSEPH		6	0053
58	HELBIG COURTLAND JOSEPH		7	0053
59	HELBIG COURTLAND	2598 OAKLAND SANG RUN RD	4	0053
60	HELBIG COURTLAND	2600 OAKLAND SANG RUN RD	5	0053

Notes:

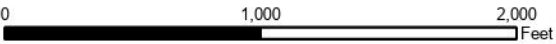
1) The street address is assigned by the local government. It includes the street number and street name as well as any directions and street types. Note that it is not necessarily the same as the mailing address.



Legend

- APPROXIMATE EXPANSION BOUNDARY
- EXISTING LANDFILL BOUNDARY
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- - - 1,000 FT BUFFER

NOTES:
1. PARCEL BOUNDARIES DOWNLOADED FROM MARYLAND DEPARTMENT OF PLANNING OPEN DATA PORTAL ON MAY 22, 2025.
2. WORLD IMAGERY: BING MAPS



PROPERTIES WITHIN 1,000FT OF
THE PROPERTY
GARRETT COUNTY LANDFILL
PHASE I PERMIT APPLICATION
OAKLAND, MARYLAND



PROJECT NO: ME2830 March 2026

Figure
4-1