July 20, 2025

Vandana Mishra
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(754) 310-9996

RE: Septic suitability investigation for Brannon Montgomery Rd. lot

Ms. Mishra:

I have completed a GA DPH Level 3 Site Investigation of Marion County Parcel 87 10H to determine suitability for proposed septic system drainfields (soil treatment units, or STUs) for a proposed residence. The 11.51-acre property is on Brannon Montgomery Road. Eleven soil borings were excavated in two potential proposed house sites, and boring observations are summarized in Table 1. Figure 1 is a site schematic.

Soils near the house site closer to the road ("Suitable Area" on Figure 1) were identified as Troup series and are suitable for conventional STUs. Estimated percolation rate was 35 minute per inch (mpi) at the recommended trench bottom depth of 34 inches below existing ground surface (bgs). STUs would need 66.5 linear feet (LF) per bedroom of typical 0.75 Equivalency Factor (EQF) products, according to Georgia DPH guidelines (198.75 LF for 3 BR; 265 LF for 4 BR. Many STU products are sold in 10-foot lengths, so round up to 200 and 270 LF). Gravity feed of effluent should be feasible from likely house locations, depending on elevation of the septic tank outlet. There is more than enough Suitable Area for primary (original) and future replacement STUs. Runoff from roofs, driveways, and landscape should be intercepted and diverted away from STUs.

The other house site near the back was less suitable for conventional STUs due to shallow seasonal saturation (seasonal high water table, or SHWT) with estimates ranging from 35 to 45 inches bgs. Soils were identified as Ailey series. Class 1 Effluent type systems or very shallow conventional systems (shallow in-ground to at-grade configurations using low-profile STU products) are recommended if septic systems were installed there.

Grading, cutting, filling, or compaction of the site may void these findings. This report does not guarantee performance of any septic system. The Marion County Health Department will determine permitted size and type of system. The 3.25-inch diameter soil borings were excavated with AMS™ hand-augers and located with a Leupold™ RX-III laser rangefinder using power poles, nearby houses, fences, and GPS as references. Satellite images were used in producing Figure 1.

Thank you for this opportunity to be of service. Please call if you have any questions or concerns about this report, need further technical guidance, or if unexpected conditions are encountered during installation.

Sincerely,

Joseph A. Gnann
Certified Professional Soil Scientist/Hydrologist
(706) 587-1199

Parcel 87 10H, Brannon Montgomery Rd., Marion Co., GA
11.51Acres - Level 3 Site Investigation Summary - 6/19/25 *in Suitable Area:*

Parent material: Marine deposits
Depth to bedrock: >72 inches below existing ground surface (bgs)
Predominant soil series: Troup (In Suitable Area; Ailey series in alternate house site)
Slope: 2 to 5%
Estimated perk rate: 30 mpi at 34 inches bgs
Depth to SHWT: >66 inches bgs
† **Recommended STU trench depth:** 34 inches bgs
***Estimated STU depth interval:** 24 to 42 inches bgs
¶ **Recommended linear footage STU:** 66.5 per bedroom for 0.75 EQF STU products.

† Theoretical optimum depth for smooth, flat site.
˙Variable trench bottom depths are required due to slope and topography; interval is also dependent on SHWT depth, absorption product, and cover thickness. Estimated interval based on observed topography and site characteristics; as-built interval will be determined by the installer.
¶According to GA DHR regulations. Marion County HD will determine permitted size, type, and location of systems.

Suitability Code: JGA = These soils should be suitable for conventional systems with proper design, installation, and maintenance. Landscape position or other site characteristics may require serial distribution and/or pumping to a distribution box.
Runoff: Rapid
Infiltration rate: High
Saturated conductivity class: Moderate
Soil drainage class: Well drained

Table 1: Soil boring summary (inches bgs): Parcel 87 10H, Marion County, GA

Soil Boring	Total Depth¶	Depth to SHWT*	Depth to Water†
B1	74	>72	Dry
B2	78	>72	Dry
B3	73	>72	Dry
B4	72	>66	Dry
B1	48 (saturated/redox)	40	46 (41)
B2	48 (saturated/redox)	41	44 (42)
B3	45 (saturated/redox)	40	40 (42)
B4	39 (saturated/redox)	36	38 (36)
B5	63 (saturated/redox)	44	50 (57)
B6	60 (saturated/redox)	45	48 (55)
B7	68 (redox)	46	66 (63)

¶ Borings and pits are normally 72 inches bgs minimum unless restrictive features or auger refusal are encountered shallower.
*Depth to morphological evidence of saturation and/or existing saturation.
†Depth from surface to satiated wet soil. DTW in parentheses was after equilibration. Occurrence varies with season and rainfall. Borings in the southern site near back PL (shaded) were not within the Suitable Area