



GeoEnvironmental Services, Inc.

December 30, 2025

Robert W. Gardner
P.O. Box 41
Lafayette, AL 36862

Re: Evaluation for On-Site Sewage Disposal
Washington Highway, 3.93 Ac; GPIN# 7883-12-9691
Hanover County, VA

Mr Gardner:

On December 23, 2025 GeoEnvironmental Services, Inc. conducted a site and soil investigation to evaluate the potential for placement of an onsite sewage disposal system at the subject property. It was concluded from the field investigation that the parcel is unsuitable for onsite sewage disposal. The reasons we will be unable to design an onsite sewage disposal system reliant upon final treatment and disposal via subsurface soil absorption for the subject properties are set forth below:

1. Insufficient depth of suitable soil to seasonal water table.
2. Restrictive soil horizon, hydric soil conditions.

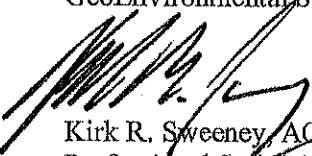
The soils that occupy the subject property are subject to prolonged saturation, which depletes the mineral content of the soil profile. Periods of prolonged saturation form the hydric soil condition in the shallow subsurface soils that is found over much of the property. Regional hydrology, topographic position, soil texture and soil porosity promote the occurrence of a shallow water table that results in semi-saturated conditions in the near surface soils. These conditions are restrictive to the infiltration of water that attempts to percolate downward through the soil profile. Introduction of septic tank effluent degrades water quality as it mixes quickly with the naturally occurring shallow ground water condition. Water mounding occurs with the introduction of additional waters and can result in outbreak on the ground surface. For these reasons, sites yielding the conditions described herein typically do not meet the regulatory requirement for onsite sewage disposal.

Much of the subject parcel is occupied by waters and wetlands that are subject to jurisdiction by the US Army Corps of Engineers. There is perhaps a potential that consideration could be given for an elevated sand mound or direct injection of septic tank effluent to groundwater however the expense and maintenance would be financially prohibitive and there is no guarantee that a variance for this type of application of sewage disposal would be granted.

Given the physical conditions observed and outlined, GeoEnvironmental Services, Inc. will not recommend a construction permit for a subsurface sewage disposal system be issued for this site. We regret we cannot assist further in the permit process for an onsite sewage disposal system for the subject properties. Should you have any questions, or we may be of further assistance please feel free to contact this office.

Respectfully,

GeoEnvironmental Services, Inc.


Kirk R. Sweeney, AOSE, LPSS
Professional Soil Scientist



GeoEnvironmental Services, Inc.

December 30, 2025

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P.O. Box 41
Lafayette, AL 36862

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Washington Highway, 3.93 Ac; GPIN# 7883-12-9691
Hanover County, VA

Mr Gardner:

On December 23, 2025 GeoEnvironmental Services, Inc. conducted a site and soil investigation to evaluate the potential for placement of an onsite sewage disposal system at the subject property. It was concluded from the field investigation that the parcel is unsuitable for onsite sewage disposal. The reasons we will be unable to design an onsite sewage disposal system reliant upon final treatment and disposal via subsurface soil absorption for the subject properties are set forth below:

1. Insufficient depth of suitable soil to seasonal water table.
2. Restrictive soil horizon, hydric soil conditions.

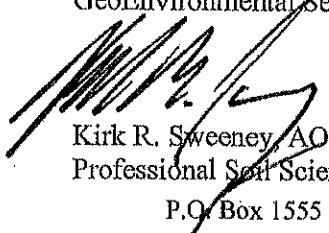
The soils that occupy the subject property are subject to prolonged saturation, which depletes the mineral content of the soil profile. Periods of prolonged saturation form the hydric soil condition in the shallow subsurface soils that is found over much of the property. Regional hydrology, topographic position, soil texture and soil porosity promote the occurrence of a shallow water table that results in semi-saturated conditions in the near surface soils. These conditions are restrictive to the infiltration of water that attempts to percolate downward through the soil profile. Introduction of septic tank effluent degrades water quality as it mixes quickly with the naturally occurring shallow ground water condition. Water mounding occurs with the introduction of additional waters and can result in outbreak on the ground surface. For these reasons, sites yielding the conditions described herein typically do not meet the regulatory requirement for onsite sewage disposal.

Much of the subject parcel is occupied by waters and wetlands that are subject to jurisdiction by the US Army Corps of Engineers. There is perhaps a potential that consideration could be given for an elevated sand mound or direct injection of septic tank effluent to groundwater however the expense and maintenance would be financially prohibitive and there is no guarantee that a variance for this type of application of sewage disposal would be granted.

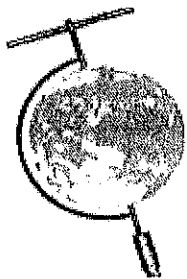
Given the physical conditions observed and outlined, GeoEnvironmental Services, Inc. will not recommend a construction permit for a subsurface sewage disposal system be issued for this site. We regret we cannot assist further in the permit process for an onsite sewage disposal system for the subject properties. Should you have any questions, or we may be of further assistance please feel free to contact this office.

Respectfully,

GeoEnvironmental Services, Inc.


Kirk R. Sweeney, AOSE, LPSS
Professional Soil Scientist

P.O. Box 1555 • Mechanicsville, Virginia 23116 • (804) 730-8220 • geo@geoenvironmental.net



GeoEnvironmental Services, Inc.

January 22, 2026

Robert W. Gardner
P.O. Box 41
Lafayette, AL 36862

Re: Evaluation for On-Site Sewage Disposal
Washington Highway, 3.93 Ac; GPIN# 7883-12-9691
Hanover County, VA

Mr Gardner:

On January 19, 2025 professional soil scientist, Kirk Sweeney and professional engineer, John Ritter conducted site and soil investigation to evaluate the potential for placement of an onsite sewage disposal system at the subject property. It was mutually concluded from the field investigation that the parcel is unsuitable for onsite sewage treatment disposal. The reasons we will be unable to design an onsite sewage disposal system reliant upon final treatment and disposal via subsurface soil absorption for the subject properties are set forth below:

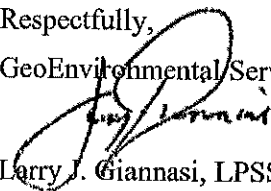
1. Insufficient depth of suitable soil to seasonal water table.
2. Restrictive soil horizon, hydric soil conditions.
3. Unsuitable condition of uncontrolled fill encountered in the only landscape position that the professional engineer may have considered for an onsite sewage treatment and disposal system.

The soils that occupy the subject property are subject to prolonged saturation, which depletes the mineral content of the soil profile. Periods of prolonged saturation form the hydric soil condition in the shallow subsurface soils that is found over much of the property. Regional hydrology, topographic position, soil texture and soil porosity promote the occurrence of a shallow water table that results in semi-saturated conditions in the near surface soils. These conditions are restrictive to the infiltration of water that attempts to percolate downward through the soil profile. Introduction of septic tank effluent degrades water quality as it mixes quickly with the naturally occurring shallow ground water condition. Water mounding occurs with the introduction of additional waters and can result in outbreak on the ground surface. For these reasons, sites yielding the conditions described herein typically do not meet the regulatory requirement for onsite sewage disposal. Uncontrolled fill was encountered. Much of the subject parcel is occupied by waters and wetlands that are subject to jurisdiction by the US Army Corps of Engineers.

Given the physical conditions observed and outlined, the professional engineer will not recommend an option for an onsite sewage disposal system for this site. Should you have any questions, or we may be of further assistance please feel free to contact this office.

Respectfully,

GeoEnvironmental Services, Inc.


Larry J. Giannasi, LPSS
Professional Soil Scientist