

Victor P. Regola and Associates, Inc.

Consulting Engineers and Surveyors

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March 17, 2022

Philip J. Niton
212 North Shenandoah Drive #203
Latrobe, PA 15650

RE: Application for Sewage Disposal Z128518
150 Hauger Hood Road
Cook Township
Westmoreland County

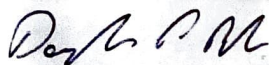
Dear Mr. Niton:

The results of the on site testing at 150 Hauger Hood Road are as follows:

- | | | |
|----|------------------|---------------|
| 1. | Limiting Zone | 20" |
| 2. | Percolation Rate | 32.9 min/inch |
| 3. | Slope | 9 % |

The site is potentially suitable for an elevated sand mound alternate bed(750 square feet) or an alternate system utilizing pretreatment. The next step in the application process is submission of a system design. This design must be site specific and show that the system installation will meet all Department of Environmental Protection Rules and Regulations. A design that is not site specific will not be accepted. The design must show all items required by Part III of the application instructions. Three copies of the design are required. If you have any questions, notify me.

Sincerely,
VICTOR P. REGOLA AND ASSOCIATES, INC.,



Douglas P. Regola, P.E., P.L.S., S.E.O.
Cook Township S.E.O.

DPR/

March 1, 2021

Andrasko & Associates, Inc.
Applied Soil Science Since 1994



Mr. Doug Regola, SEO
Victor P. Regola & Associates, Inc.
402 Clawson Avenue
Youngwood, PA 15697

Re: *Transmittal: Soil Assessment Reports*
Wallace Property on Hauger Hood Road
Cook Township, Westmoreland County, Pennsylvania

Dear Mr. Regola:

Andrasko was retained by Ms. Mary C. Wallace, P.O.A. to complete a soil assessment at her family's property referenced above. Enclosed are the original copies of the resultant soil assessment reports for your review. One absorption area was identified as a result of this soil assessment. Test Pits TP-1A to TP-2A bracket soils meeting the minimum vertical depths and slope requirements for a standard elevated sand mound, an at-grade bed with pretreatment, or an Eljen Geotextile sand filter. Percolation testing is required to determine final site suitability for these systems. This site may also be developed with a drip irrigation system.

The identified absorption area must be protected from any and all soil disturbance including that from all types of excavation and construction equipment, vehicles, soil stockpiling, logging, farming, pasture, and burning. The absorption area should be quarantined with orange construction fence until the time of system construction.

If you have any questions or need any additional information, please call or text me at 412-417-1251.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read 'Ronald R. Andrasko II'.

Ronald R. Andrasko II, C.P.S.S., S.E.O.
Certified Professional Soil Scientist (No. 6038)
Certified Sewage Enforcement Officer (No. 3597)
Principal

cc: Ms. Mary C. Wallace, P.O.A.
1039 Saybrook Drive
Greensburg, PA 15601
(Phone: 724-834-7993)

Andrasko & Associates, Inc.
1011 Lux Road, Jeannette, Pennsylvania 15644, Phone/Text: 412.417.1251
Member of the Pennsylvania Association of Professional Soil Scientists,
Nationally SSSA Certified

Test Pit Location Map

Wallace Property on Hauger Hood Road
Cook Township, Westmoreland Co., PA

- Legend**
- Test Pit
 - Test Pit

Hauger-Hood Rd

711

TP-2A Δ TP-1A

Hoffer Plan

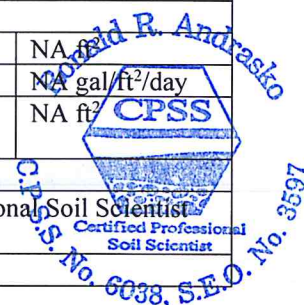
Google Earth

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700 ft

Soil Profile Description and Testing Data <i>Andrasko & Associates, Inc.</i> Jeannette, Pennsylvania (Phone: 724-744-0101)									
Project Name:		Wallace Property on Hauger Hood Road			Test Pit No.:		TP-1A		
Township:		Cook			Absorption Area Bracketed:		TP-1A to TP-2A		
County:		Westmoreland		State:	PA		Limiting Zone:		24" E.C.F.
Field Scientist:		Ronald R. Andrasko II, CPSS			Design Slope:		9 %		
Field Date:		02.25.21			Distance Between Test Pits:		70 feet		
USGS Coordinates via WAAS Enabled GPS Receiver (Accuracy: +-9ft): N: 40° 09.098, W: 79° 19.558									
USDA Soil Profile Description									
Horizon	Depth (inches)	Matrix Color (Munsell)	Texture	Redoxi-morphic Features	Structure	Moist Consistence	Coarse Fragments (% and description)	Boundary	
Ap	0-12	10YR 3/3	Silt loam	None	Moderate, fine, granular	Very friable, slightly sticky, slightly plastic	10 % sandstone stones	Abrupt & smooth	
Bt	12-24	10YR 4/6	Silty clay loam	None	Moderate, medium, subangular blocky	Friable, sticky, plastic	25 % sandstone stones	Abrupt & irregular	
C	24-30+	10YR 4/6	Silty clay loam	None	Structureless & massive	Friable, sticky, plastic	50 % sandstone stones	NA	
Notes:									
Soil Classification Data									
Drainage Classification:		Well drained			Soil Series Classification:		GcD		
Limiting Zone Type:		Excessive coarse fragments with insufficient fines							
Type of system(s) site is suitable for:									
X	Elevated sand mound (Perc test required!)				IRSIS (Spray Irrigation Field)				
X	At grade bed w. pretreatment (Perc req!)			X	Drip Irrigation (See morphological evaluation below)				
X	Eljen Geotextile sand filter (Perc test req!)				Drip Micromound (See morphological evaluation below)				
Drip Irrigation Criteria									
Hydraulic Loading Rate:		0.33 gal/linear ft/day		Drip Tube Install Depth:		Surface		Inches	
Governing Horizon:		Bt TP-2A		Drip Tube Spacing:		2.0		ft centers	
Horizontal Linear Load:		4.5 gal/day/ft tube							
Maximum flow rate:		623 gpd Based on drip irrigation absorption area of: 70' x 27 runs							
Additional Notes: Surface applied tubes to be covered with 6 inches of post settlement soil.									
Morphological Perc-Rite Micromound Criteria									
USDA Soil Texture Group:		IIIb		Horizontal Linear Load:		NA		gal/linear foot/day	
Available Length of Field:		NA feet		Max. Capacity of Field:		NA		GPD	
Limitation Depth (inches):		NA"		Seasonal high water table					
		NA"		Excessive coarse fragments with insufficient fines					
Basal Loading Rate:		NA gal/ft ² /day							
Basal Loading Area (Minimum square footage of entire bed including berms @ 400 gpd):						NA ft ²			
Sand Bed Loading Rate (A constant supplied by American Manufacturing):						NA gal/ft ² /day			
Sand Bed Loading Area (Minimum sand bed square footage where tubes will be applied inside of basal loading area @ 400 gpd):						NA ft ²			
Certification of Soil Testing Results									
Signature:				Title: Certified Professional Soil Scientist					
Printed Name: Ronald R. Andrasko II, CPSS, SEO				Date: 03.01.21					



Soil Profile Description and Testing Data

Andrasko & Associates, Inc.

Jeannette, Pennsylvania (Phone: 724-744-0101)

Project Name:	Wallace Property on Hauger Hood Road	Test Pit No.:	TP-2A
Township:	Cook	Absorption Area Bracketed:	TP-1A to TP-2A
County:	Westmoreland	State:	PA
Field Scientist:	Ronald R. Andrasko II, CPSS	Limiting Zone:	20"ECF&SHWT
Field Date:	02.25.21	Design Slope:	9 %
		Distance Between Test Pits:	70 feet

USGS Coordinates via WAAS Enabled GPS Receiver (Accuracy: +-9ft): N: 40° 09.103, W: 79° 19.572

USDA Soil Profile Description

Horizon	Depth (inches)	Matrix Color (Munsell)	Texture	Redoxi- morphic Features	Structure	Moist Consistence	Coarse Fragments (% and description)	Boundary
Ap	0-10	10YR 3/3	Silt loam	None	Moderate, fine, granular	Very friable, slightly sticky, slightly plastic	20 % sandstone stones	Abrupt & smooth
Bt	10-20	10YR 5/8	Silty clay loam	None	Moderate, fine, subangular blocky	Friable, sticky, plastic	30 % sandstone channers	Abrupt & irregular
C	20-30+	10YR 5/8	Silty clay loam	Common, fine, clear, 10YR 6/1 & 5YR 4/6	Structureless & massive	Friable, sticky, plastic	50 % sandstone channers	NA

Notes:

Soil Classification Data

Drainage Classification:		Moderately well drained	Soil Series Classification:	GcD
Limiting Zone Type:		Seasonal high water table & excessive coarse fragments with insufficient fines		
Type of system(s) site is suitable for:				
X	Elevated sand mound (Perc test required!)			IRSIS (Spray Irrigation Field)
X	At grade bed w. pretreatment (Perc req!)		X	Drip Irrigation (See morphological evaluation below)
X	Eljen Geotextile sand filter (Perc test req!)			Drip Micromound (See morphological evaluation below)

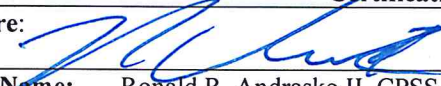
Drip Irrigation Criteria

Hydraulic Loading Rate:	0.33	gal/linear ft/day	Drip Tube Install Depth:	Surface	Inches
Governing Horizon:	Bt	TP-2A	Drip Tube Spacing:	2.0	ft centers
Horizontal Linear Load:	4.5	gal/day/ft tube			
Maximum flow rate:	623 gpd	Based on drip irrigation absorption area of: 70' x 27 runs			
Additional Notes: Surface applied tubes to be covered with 6 inches of post settlement soil.					

Morphological Perc-Rite Micromound Criteria

USDA Soil Texture Group:	IIIb		Horizontal Linear Load:	NA	gal/linear foot/day
Available Length of Field:	NA feet		Max. Capacity of Field:	NA	GPD
Limitation Depth (inches):	NA"	Seasonal high water table			
	NA"	Excessive coarse fragments with insufficient fines			
Basal Loading Rate:	NA gal/ft ² /day				
Basal Loading Area (Minimum square footage of entire bed including berms @ 400 gpd):				NA ft ²	
Sand Bed Loading Rate (A constant supplied by American Manufacturing):				NA gal/ft ² /day	
Sand Bed Loading Area (Minimum sand bed square footage where tubes will be applied inside of basal loading area @ 400 gpd):				NA ft ²	

Certification of Soil Testing Results

Signature:		Title:	Certified Professional Soil Scientist
Printed Name:	Ronald R. Andrasko II, CPSS, SEO	Date:	03.01.21

