



Soil Suitability for Domestic Sewage Treatment and Disposal Systems

Old Coats Road Lillington, NC Harnett County

PIN 0661-72-5304, 0661-72-0302, and 0661-51-5157

Prepared For:Beverly Pollock, OwnerPrepared By:Sloan Griffin, SanLee Environmental, LLC

May 13, 2021

Report Date:



Soil Suitability for Domestic Sewage Treatment and Disposal Systems Old Coats Road, Lillington, NC (Harnett County)

PREPARED FOR: Beverly Pollock, Owner

PREPARED BY: Sloan Griffin, LSS #1333

DATE: May 13, 2021

Soil suitability for domestic sewage treatment and disposal systems was evaluated on April 10, April 17, and May 8, 2021, for property located off Old Coats Road in Lillington, NC. Sloan Griffin of SanLee Environmental, LLC conducted the soil evaluation. The detailed soil evaluation of the land area will follow. A property reference map is provided in Attachment 1. A review of the soil and landscape characteristics that dictate soil suitability for domestic sewage treatment and disposal systems can be found in Attachment 2. The property is primarily within agricultural fields on an upland side slope and includes a pond, wells, and several existing structures (Attachment 3). Portions of the property were in dense vegetation and were not evaluated at this time due to poor landscape position, unsuitable soils, standing water, creek setbacks, and the presence of wetland indicators.

Soil Suitability for Domestic Sewage Treatment and Disposal Systems (General) The aerial map in Attachment 3 details the approximate property boundaries, soil boring locations, soil types, and soil areas for septic systems. Approximately 85 soil borings were advanced to delineate the provisionally suitable soils area on the property (Attachment 3). This evaluation was merely a preliminary review to determine what potential this land might have for domestic sewage treatment and disposal systems. Therefore, specific types of septic systems, exact locations of future drainfields and repair areas, plus buffers from property lines (current and potential future lot lines), building foundations, wells, etc. are not fully considered. These things will need to be more fully considered as the plans develop for the potential future of this site. The suitable soils area, as denoted by the green hatched area on the lot (see map in Attachment 3), exhibited soil characteristics and soil depths (24" or greater) that is provisionally suitable for conventional trench septic systems. The surface water setback areas are denoted by the red hatched area and are excluded from the usable soils area.

Typical profile descriptions of the provisionally suitable soil for this property are in Attachment 4.

The provisionally suitable soil borings had the following characteristics. Soil texture was provisionally suitable and was estimated to be loam to sandy loam near the soil surface (A horizons) and sandy clay loam to clay in the subsoil (B horizons). Soil structure was provisionally suitable and was estimated to be granular near the soil surface (A horizons) and weak subangular blocky in the subsoil (B horizons). Clay mineralogy was provisionally suitable with very friable to firm moist soil consistence and non-sticky to slightly sticky and non-plastic to slightly plastic wet soil consistence.

The major soil type on this property is a Norfolk loamy sand (map symbol NoA, NoB, and NoC) and Lillington very gravelly sandy loam (map symbol LnB). The Harnett County Soil Survey indicates that moderate to severe limitations exist for septic systems installed in these soils types (Attachment 5).

The land area required for a conventional or shallow conventional septic system is calculated based on the size of the proposed home and the Long-Term Acceptance Rate (LTAR) of the soil. The LTAR range for the provisionally suitable soils on this property is 0.1 - 0.4 GPD/ft² based on the most restrictive soil texture in the subsoil. Table 1 below presents estimated conventional or shallow conventional septic system land area requirements for several home sizes and LTAR's on this property. The most limited LTAR suggested by SanLee Environmental, LLC for a portion of the provisionally suitable soil is 0.25 GPD/ft², but the final LTAR for specific septic system types and septic drainfield locations will be set by the Harnett County Health Department depending on the final house site and drainfield location. The detailed computations are in Attachment 6.

Table 1. Estimated Conventional Septic System Land Requirements (including repair area) for Several Home Sizes and Long-Term Acceptance Rates (LTAR) on this Property.

House Size	Long-Term	Area Required for	Minimum Area Required for
	Acceptance Rate	Conventional Septic	Innovative Conventional
	<u>(LTAR)</u>	System	Septic System
	GPD/ft ²	ft ²	ft ²
3 bedrooms	0.1 - 0.4	6,750 - 32,400	8,100 - 24,300
3 bedrooms	0.25	~12,960	~9,720
4 bedrooms	0.1 - 0.4	9,000 - 43,200	6,750 - 32,400
4 bedrooms	0.25	~17,280	~12,960
5 bedrooms	0.1 - 0.4	11,250 - 54,000	8,438 - 40,500
5 bedrooms	0.25	~21,600	~16,200

Conclusions

Based on the results of this evaluation, the installation of a conventional septic systems seems probable within the area evaluated, however house size, location, property lines and setbacks may affect usable soils area and available space.

We appreciate the opportunity to assist you in this matter. Please contact us with any questions, concerns, or comments.

ATTACHMENT 1: Property Reference Map

Harnett GIS





ATTACHMENT 2: Review of Rules Pertaining to Domestic Sewage Treatment and Disposal Systems Five categories of soil and landscape characteristics are evaluated to determine soil suitability for domestic sewage treatment and disposal systems and include: topography and landscape position, soil morphological characteristics, soil wetness conditions, soil depth, and restrictive horizons. The soil and landscape characteristics found in a particular location dictate the type(s) of domestic sewage treatment and disposal system that can be used on a parcel of land. The detailed rules can be found in Section .1900 – Sewage Treatment and Disposal Systems, but a general review of the five categories and other relevant rules can be found in the sections below.

.1940 TOPOGRAPHY AND LANDSCAPE POSITION

Uniform slopes less than 15 percent are considered suitable, uniform slopes between 15 and 30 percent are considered provisionally suitable, and slopes greater than 30 percent are considered unsuitable for domestic sewage treatment and disposal systems. Complex slope patterns and slopes dissected by gullies and ravines are considered unsuitable for domestic sewage treatment and disposal systems. Depressions and wetlands are also considered unsuitable for domestic sewage treatment and disposal systems.

.1941 SOIL MORPHOLOGICAL CHARACTERISTICS

Sandy and coarse loamy textured soils (sand, loamy sand, sandy loam, and loam) are considered suitable for domestic sewage treatment and disposal systems. Fine loamy and clayey textured soils (silt, silt loam, sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay, and clay) are considered provisionally suitable for domestic sewage treatment and disposal systems.

Crumb, granular, and single-grained soil structures are considered suitable for domestic sewage treatment and disposal systems. Blocky soil structures are considered provisionally suitable for domestic sewage treatment and disposal systems. Platy, prismatic, and massive soil structures are considered unsuitable for domestic sewage treatment and disposal systems.

Slightly expansive clay mineralogy is considered suitable for domestic sewage treatment and disposal systems. Slightly expansive clay minerals exhibit loose, very friable, friable, or firm moist soil consistence. Expansive clay mineralogy is considered unsuitable for domestic sewage treatment and disposal systems. Expansive clay minerals exhibit very firm or extremely firm moist soil consistence. Organic soils are considered unsuitable for domestic sewage treatment and disposal systems.

.1942 SOIL WETNESS CONDITIONS

Soil wetness conditions are caused by seasonal high water table, perched water table, tidal water, seasonally saturated soils, or lateral water movement. Soil wetness conditions are indicated by soil colors, either in mottles or mass, with a chroma of 2 or less according to the Munsell color charts. Soil wetness conditions detected 48 inches in depth or deeper are considered suitable for domestic sewage treatment and disposal systems. Soil wetness conditions detected between 36 to 48 inches in depth are considered provisionally suitable for domestic sewage treatment and disposal systems. Soil wetness conditions detected 36 inches in depth or shallower are considered unsuitable for domestic sewage treatment and disposal systems.

.1943 SOIL DEPTH

Soil depths to rock, parent material, or saprolite greater than 48 inches are considered suitable for domestic sewage treatment and disposal systems. Soil depths to rock, parent material, or saprolite between 36 and 48 inches are considered provisionally suitable for domestic sewage treatment and disposal systems. Soil depths to rock, parent material, or saprolite less than 36 inches are considered unsuitable for domestic sewage treatment and disposal systems. Soil depths to rock, parent material, or saprolite less than 36 inches are considered unsuitable for domestic sewage treatment and disposal systems. Saprolite has a massive, rock-controlled structure, and retains the mineral arrangement of its parent rock in at least 50 percent of its volume. Saprolite only forms from metamorphic and igneous rock parent materials and is typically referred to as "rotten rock".

.1944 RESTRICTIVE HORIZONS

Restrictive horizons are capable of perching ground water or sewage effluent and are strongly compacted or cemented. Restrictive horizons resist soil excavation or augering. Soils with restrictive horizons three inches or more in thickness at depths greater than 48 inches are considered suitable for domestic sewage treatment and disposal systems. Soils with restrictive horizons three inches or more in thickness at depths between 36 and 48 inches are considered provisionally suitable for domestic sewage treatment and disposal systems. Soils with restrictive horizons three inches or more in thickness at depths between 36 and 48 inches are considered provisionally suitable for domestic sewage treatment and disposal systems. Soils with restrictive horizons three inches or more in thickness at depths less than 36 inches are considered unsuitable for domestic sewage treatment and disposal systems.

.1950 LOCATION OF SANITARY SEWAGE SYSTEMS HARNETT COUNTY ENVIRONMENTAL HEALTH DEPARTMENT

No area for domestic sewage treatment and disposal system installation (or repair in Harnett County) may be disturbed by clearing, excavation, filling, vehicle or equipment traffic, orstorage of building materials.

.1947 DETERMINATION OF OVERALL SITE SUITABILITY

.1948 SITE CLASSIFICATION

All of the criteria for the five categories above are to be determined and classified as suitable, provisionally suitable, or suitable according to the respective rules described above. If all criteria are classified the same, that overall site classification will prevail. If there is a variation in the classification of several criteria, the most limiting classification will be used to determine the overall site classification.

A suitable classification generally indicates soil and landscape conditions favorable for the operation of a domestic sewage treatment and disposal system or slight limitations that can be readily overcome by proper design and installation. A provisionally suitable classification indicates soil and/or landscape conditions have moderate limitations for the operation of a domestic sewage treatment and disposal system, but modifications and careful planning, design, and installation can result in satisfactory system function. An unsuitable classification indicates severe soil and/or landscape limitations for the operation of a domestic sewage treatment and disposal system.

SUMMARY

Suitable/provisionally suitable landscapes and soils to a depth of 36 inches can, in general, be used for conventional gravity driven septic systems. Suitable/provisionally suitable landscapes

and soils to a depth of 24-36 inches can, in general, be used for alternative septic systems such as shallow conventional and low pressure pipe systems, among others. All alternative systems for provisionally suitable landscapes and soils must be proposed to and approved by the Harnett County Environmental Health Department. Any landscapes or soils classified as unsuitable maybe reclassified as provisionally suitable by the Harnett County Environmental Health Department. Any landscapes or soils classified as unsuitable maybe reclassified as provisionally suitable by the Harnett County Environmental Health Department personnel.

ATTACHMENT 3: Property Map Detailing Soil Suitability for Septic Systems and Soil Types











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Project: Old Coats Road Lillington, NC

Date: June 14, 2021



ATTACHMENT 4: Typical Profile Descriptions of Provisionally Suitable Soil

name	Horizon 1	Horizon 2	Horizon 3	Horizon 4	Horizon 5
WPT 85	0-10 l gr fr nsnp sexp	10-16 sl gr fr nsnp sexp	16-27 scl wsbk fi sssp sexp	27+ scl wsbk fi sssp sexp 10yr 7/2	
WPT 84	0-15 l gr fr nsnp sexp	15-26 sl gr fr nsnp sexp	26+ sl gr fr nsnp sexp 10yr 7/1		
WPT 83	0-11 l gr fr nsnp sexp	11-23 sl gr fr nsnp sexp	23-33 scl wsbk fi sssp sexp	33+ scl wsbk fi sssp sexp 10yr 7/2	
WPT 82	0-16 l gr fr nsnp sexp	16+ l gr fr nsnp sexp 10yr 8/2			
WPT 81	0-7 l gr fr nsnp sexp	7-16 sl gr fr nsnp sexp	16-37 scl wsbk fi sssp sexp	37+ scl wsbk fi sssp sexp 10yr 8/1	
WPT 80	0-9 l gr fr nsnp sexp	9-27 sl gr fr nsnp sexp	27-38 scl wsbk fi sssp sexp	38+ scl wsbk fi sssp sexp 10yr 7/1	
WPT 79	0-15 l gr fr nsnp sexp	15-24 sl gr fr nsnp sexp	24-28 scl wsbk fi sssp sexp	28+ scl wsbk fi sssp sexp 10yr 8/1	
WPT 78	0-10 l gr fr nsnp sexp	10-22 sl gr fr nsnp sexp	22-37 scl wsbk fi sssp sexp	37-39 sc wsbk fi sssp sexp	39+ sc wsbk fi sssp sexp 10yr 7/2
WPT 77	0-11 l gr fr nsnp sexp	11-35 sl gr fr nsnp sexp	35-48 scl wsbk fr sssp sexp		
WPT 76	0-14 l gr fr nsnp sexp	14-36 c wsbk fi sssp sexp	36+ parent material		
WPT 75	0-17 cl gr fr nsnp sexp	17-31 sl gr fr nsnp sexp	31-35 c wsbk fi sssp sexp	35+ c wsbk fi sssp sexp 10yr 7/2	
WPT 74	0-13 l gr fr nsnp sexp	13-17 sl gr fr nsnp sexp	17-34 c wsbk fi sssp sexp	34+ auger refusal	
WPT 73	0-12 l gr fr nsnp sexp	12-23 sl gr fr nsnp sexp	23-34 c wsbk fi sssp sexp	34+ auger refusal	
WPT 72	0-9 l gr fr nsnp sexp gravel	9-14 scl wsbk fr sssp sexp gravel	14-19 c wsbk fi sssp sexp gravel	19+ auger refusal	
WPT 71	0-10 l gr fr nsnp sexp	10-23 l gr fr nsnp sexp gravelly	23-28 scl wsbk fr sssp sexp gravel	28-37 c wsbk fi sssp sexp	37+ parent material
WPT 70	0-11 l gr fr nsnp sexp	11-22 sl gr fr nsnp sexp	22-34 scl wsbk fr sssp sexp	34-40 c wsbk fi sssp sexp	40+ parent material
WPT 69	0-13 l gr fr nsnp sexp gravel	13-28+ scl wsbk fi sssp sexp gravel			
WPT 68	0-9 l gr fr nsnp sexp	9-26 cl wsbk fi sssp sexp	26+ c m vfi s p exp 10yr 7/2		
WPT 67	0-10 l gr fr nsnp sexp	10-29 cl wsbk fr sssp sexp	29+ cl wsbk fr sssp sexp 10yr 7/2		
WPT 66	0-4 l gr fr nsnp sexp	4-8 sc wsbk fi sssp sexp	8+ c m vfi s p exp 10yr 8/2		
WPT 65	0-9 l gr fr nsnp sexp	9-21 sc wsbk fi sssp sexp	21+ sc wsbk fi sssp sexp 10yr 8/2		
WPT 64	0-6l gr fr nsnp sexp	6-16 sc wsbk fi sssp sexp	16+ c m vfi s p exp 10yr 8/1		
WPT 63	0-15 l gr fr nsnp sexp	15+ c wsbk fi sssp sexp 10yr 8/2			
WPT 62	0-9 l gr fr nsnp sexp	9+ scl wsbk fr sssp sexp 10yr 8/1			
WPT 61	0-9 l gr fr nsnp sexp	9+ scl wsbk fi sssp sexp 10yr 7/2			
WPT 60	0-10 l gr fr nsnp sexp	10+ c wsbk fi sssp sexp 10yr 7/2			
WPT 59	0-17 l gr fr nsnp sexp	17-26 scl wsbk fr sssp sexp	26+ scl wsbk fi sssp sexp 10yr 7/2		
WPT 58	0-25 l gr fr nsnp sexp	25-43 sc wsbk fi sssp sexp	43-48 sc wsbk fi sssp sexp 10yr 7/2		
WPT 57	0-15 l gr fr nsnp sexp	15-26 scl wsbk fi sssp sexp	26-37 sc wsbk fi sssp sexp	37+ sc wsbk fi sssp sexp 10yr 7/2	
WPT 56	0-16 l gr fr nsnp sexp	16-35 scl wsbk fi sssp sexp	35+ sc wsbk fi sssp sexp 10yr 7/2		
WPT 55	0-13 l gr fr nsnp sexp	13-26 cl wsbk fr sssp sexp	26+ c m vfi s p exp 10yr 8/1		
WPT 54	0-30 l gr fr nsnp sexp	30-37 sc wsbk fi sssp sexp	37-48 c wsbk fi sssp sexp		
WPT 53	0-22 l gr fr nsnp sexp	22-38 sc wsbk fi sssp sexp	38+ auger refusal		
WPT 52	0-35 l gr fr nsnp sexp	35-38 sc wsbk fi sssp sexp	38+ sc wsbk fi sssp sexp 10yr 7/2		
WPT 51	0-10 l gr fr nsnp sexp	10-24 sicl wsbk fr sssp sexp	24-28 sic wsbk fi sssp sexp	28+ sic wsbk fi sssp sexp 10yr 7/2	
WPT 50	0-14 l gr fr nsnp sexp	14-37 scl wsbk fr sssp sexp	37-42 sc wsbk fi sssp sexp	42-48 c sbk fi s sp sexp	
WPT 49	0-17 l gr fr nsnp sexp	17-33 scl wsbk fr sssp sexp	33-44 sc wsbk fi sssp sexp	44+ sc wsbk fi sssp sexp 10yr 7/2	
WPT 48	0-10 l gr fr nsnp sexp	10-48 scl wsbk fr sssp sexp			
WPT 47	0-24 l gr fr nsnp sexp	24-34 scl wsbk fr sssp sexp	34-48 sc wsbk fi sssp sexp		
WPT 46	0-16 l gr fr nsnp sexp	16-41 cl wsbk fr sssp sexp	41-48 c wsbk fi sssp sexp		
WPT 45	0-10 l gr fr nsnp sexp	10-34 cl wsbk fr sssp sexp	34+ c wsbk fi sssp sexp 10yr 7/2		
WPT 44	0-9 l gr fr nsnp sexp	9-25 c wsbk fi sssp sexp	25-48 sc wsbk fi sssp sexp		

WPT 43	0-17 l gr fr nsnp sexp	17-39 scl wsbk fi sssp sexp	39+ c wsbk fi sssp sexp 10yr 7/2		
WPT 42	0-17 l gr fr nsnp sexp	17-35 scl wsbk fi sssp sexp	35+ c wsbk fi sssp sexp 10yr 7/2		
WPT 41	0-15 sl gr fr nsnp sexp				
WPT 40	0-7 l gr fr nsnp sexp	7-18 c wsbk fi sssp sexp	18+ c abk vfi s p exp 10yr 7/1		
WPT 39	0-12 sl gr fr nsnp sexp	12-26 c wsbk fi sssp sexp	26+ c abk vfi s p exp 10yr 8/1		
WPT 38	0-20 scl gr fr nsnp sexp	20-25 c wsbk fi sssp sexp	25+ c wsbk fi sssp sexp 10yr 7/2		
WPT 37	0-16 l gr fr nsnp sexp	16-48 scl wsbk fi sssp sexp			
WPT 36	0-19 l gr fr nsnp sexp	19-48 scl wsbk fi sssp sexp			
WPT 35	0-16 sl gr fr nsnp sexp	16-45 scl wsbk fr sssp sexp	45-48 scl wsbk fi sssp sexp 10yr 7/2		
WPT 34	0-11 sl gr fr nsnp sexp	11-23 scl wsbk fi sssp sexp	23-41 sc wsbk fi sssp sexp	41-48 c abk vfi s p exp 10yr 7/2	
WPT 33	0-21 sl gr fr nsnp sexp	21-23 scl wsbk fi sssp sexp	23+ c abk vfi s p exp 10yr 8/1		
WPT 32	0-16 sl gr fr nsnp sexp	16-27 scl wsbk fi sssp sexp	27-34 sc wsbk fi sssp sexp	34+ c abk vfi s p exp 10yr 7/2	
WPT 31	0-14 sl gr fr nsnp sexp	14-25 scl wsbk fr sssp sexp	25-39 scl wsbk fi sssp sexp	39-44 c abk vfi s p exp	44+ scl wsbk fr sssp sexp
WPT 30	0-15 sl gr fr nsnp sexp	15-31 scl wsbk fr sssp sexp	31-48 scl wsbk fi sssp sexp		
WPT 29	0-14 sl gr fr nsnp sexp	14-22 scl wsbk fr sssp sexp	22-48 scl wsbk fi sssp sexp		
WPT 28	0-18 sl gr fr nsnp sexp	18-31 scl wsbk fi sssp sexp	31-48 l wsbk fr sssp sexp		
WPT 27	0-18 sl gr fr nsnp sexp	18-35 scl wsbk fi sssp sexp	35+ sc wsbk fi sssp sexp 10yr 7/2		
WPT 26	0-31 sl gr fr nsnp sexp	31-48 scl wsbk fi sssp sexp			
WPT 25	0-25 sl gr fr nsnp sexp	25-48 scl wsbk fr sssp sexp			
WPT 24	0-25 sl gr fr nsnp sexp	25-41 scl wsbk fi sssp sexp	41+ sc wsbk fi sssp sexp 10yr 7/2		
WPT 23	0-11 sl gr fr nsnp sexp	11-21 scl wsbk fi sssp sexp	21-25 sc wsbk fi sssp sexp	25+ c abk vfi s p exp	
WPT 22	0-12 sl gr fr nsnp sexp	12-29 scl wsbk fi sssp sexp	29-47 l wsbk fr sssp sexp	47-48 sl gr fr nsnp sexp 10yr 7/2	
WPT 21	0-15 sl gr fr nsnp sexp	15-27 scl wsbk fi sssp sexp	27-34 sc wsbk fi sssp sexp	34 c abk vfi s p exp 10yr 7/2	
WPT 20	0-12 sl gr fr nsnp sexp	12-32 scl wsbk fi sssp sexp	32+ c abk vfi s p exp 10yr 7/2		
WPT 19	0-8 sl gr fr nsnp sexp	8-18 scl wsbk fi sssp sexp	18-34 scl wsbk fr sssp sexp	34-37 slgr fr sssp sexp	37+ scl wsbk fi sssp sexp 10yr 7/2
WPT 18	0-10 sl gr fr nsnp sexp	10-17 scl wsbk fi sssp sexp	17-33 c wsbk fi sssp sexp	33+ c abk vfi s p exp	
WPT 17	0-10 sl gr fr nsnp sexp	10-22 scl wsbk fr sssp sexp	22-34 c wsbk fi sssp sexp		
WPT 16	0-31 l gr fr nsnp sexp				
WPT 15	0-7 sl gr fr nsnp sexp	7-21 scl wsbk fi sssp sexp	21-33 sc wsbk fi sssp sexp	33+ c abk vfi s p exp 10yr 7/2	
WPT 14	0-9 sl gr fr nsnp sexp	9-14 scl wsbk sssp sexp	14-33 sc wsbk fi sssp sexp	33+ c abk vfi s p exp 10yr 8/1	
WPT 13	0-11 sl gr fr nsnp sexp	11-23 scl wsbk fi sssp sexp	23-35 sc wsbk fi sssp sexp	35+ c wsbk fi sssp sexp 10yr 7/2	
WPT 12	0-15 sl gr fr nsnp sexp	15-22 scl wsbk fi sssp sexp	22-38 sc wsbk fi sssp sexp	38+ c wsbk fi sssp sexp 10yr 7/2	
WPT 11	0-13 sl gr fr nsnp sexp	13-27 scl wsbk fi sssp sexp	27-35 sc wsbk fi sssp sexp	35+ c wsbk fi sssp sexp 10yr 7/2	
WPT 10	0-15 sl gr fr nsnp sexp	15-23 scl wsbk fi sssp sexp	23-33 sc wsbk fi sssp sexp	33+ c wsbk fi sssp sexp 10yr 7/2	
WPT 9	0-15 sl gr fr nsnp sexp	15-26 c wsbk fi sssp sexp	26+ c wsbk vfi s p exp		
WPT 8	0-7 sl gr fr nsnp sexp	7-28 c wsbk fi sssp sexp	28+ c wsbk fi sssp sexp 10yr 7/2		
WPT 7	0-10 sl gr fr nsnp sexp	10-14 scl wsbk fr sssp sexp	14-26 sc wsbk fi sssp sexp	26+ sc/c wsbk vfi s sp exp 10yr 7/2	
WPT 6	0-13 sl gr fr nsnp sexp	13-19 scl wsbk fi sssp sexp	19-31 sc wsbk fi sssp sexp	31+ sc wsbk fi sssp sexp 10yr 7/2	
WPT 5	0-24 sl gr fr nsnp sexp	24-41 scl wsbk fi sssp sexp	41-48 sc wsbk fi sssp sexp 10yr 7/2		
WPT 4	0-18 sl gr fr nsnp sexp	18-32 scl wsbk fi sssp sexp	32-48 sc wsbk fi sssp sexp		
WPT 3	0-17 sl gr fr nsnp sexp	17-31 scl wsbk fi sssp sexp	31-48 scl wsbk fr sssp sexp		
WPT 2	0-22 sl gr fr nsnp sexp	22-48 scl fr sssp sexp			
WPT 1	0-15 sl gr fr nsnp sexp	15-22 scl wsbk fr sssp sexp	22-48 scl wsbk fi sssp sexp		

name	LTAR	Restrictive Layer	Slope	Soil Depth
WPT 85	0.4	SWC	4	27
WPT 84	0.6	SWC	4	26
WPT 83	0.35	SWC	4	33
WPT 82	0.6	SWC	3	16
WPT 81	0.4	SWC	4	37
WPT 80	0.35	SWC	4	38
WPT 79	0.35	SWC	4	28
WPT 78	0.25	SWC	3	39
WPT 77	0.4		3	48
WPT 76	0.25	parent	4	36
WPT 75	0.25	SWC	3	35
WPT 74	0.25	auger refusal	5	34
WPT 73	0.3	auger refusal	5	34
WPT 72	0.3	gravelly	4	0
WPT 71	0.3	parent material	4	37
WPT 70	0.3	parent material	4	40
WPT 69	0	gravel	4	0
WPT 68	0.3	swc expansive	2	26
WPT 67	0.3	SWC	2	29
WPT 66	0	swc expansive	1	8
WPT 65	0.25	SWC	1	21
WPT 64	0	swc expansive	1	16
WPT 63	0.25	SWC	1	15
WPT 62	0	SWC	3	9
WPT 61	0	SWC	1	9
WPT 60	0	SWC	2	10
WPT 59	0.4	SWC	4	26
WPT 58	0.25	SWC	3	43
WPT 57	0.3	SWC	4	37
WPT 56	0.3	SWC	4	35
WPT 55	0.3	expansive swc	4	26
WPT 54	0.3		3	48
WPT 53	0.3	auger refusal	3	38
WPT 52	0.3	SWC	3	38
WPT 51	0.25	SWC	3	28
WPT 50	0.25		3	48
WPT 49	0.3	SWC	3	44
WPT 48	0.4		4	48
WPT 47	0.3		4	48
WPT 46	0.3		3	48
WPT 45	0.35	SWC	3	34
WPT 44	0.3		3	48

WPT 43	0.3	SWC	2	39
WPT 42	0.3	swc	2	35
WPT 41	0	auger refusal	4	15
WPT 40	0.2	swc exp	2	18
WPT 39	0.2	swc expansive	2	26
WPT 38	0.25	swc some expansive	3	25
WPT 37	0.3		3	48
WPT 36	0.3		3	48
WPT 35	0.4	swc	2	45
WPT 34	0.25	swc expansive	2	41
WPT 33	0.25	expansive swc	3	23
WPT 32	0.25	expansive swc	4	34
WPT 31	0.25	expansive	4	39
WPT 30	0.3		4	48
WPT 29	0.3		4	48
WPT 28	0.3		4	48
WPT 27	0.3	swc	4	35
WPT 26	0.4		5	48
WPT 25	0.4		5	48
WPT 24	0.25	swc	4	41
WPT 23	0.25	expansive	3	25
WPT 22	0.6	swc	3	47
WPT 21	0.25	swc expansive	2	34
WPT 20	0.25	swc expansive	2	32
WPT 19	0.3	swc	3	34
WPT 18	0.25	expansive	3	33
WPT 17	0.3	swc	4	34
WPT 16	0.6	gravitational water	4	31
WPT 15	0.25	swc expansive	3	33
WPT 14	0.2	swc expansive	2	33
WPT 13	0.25	SWC	2	35
WPT 12	0.25	SWC	2	38
WPT 11	0.275	SWC	2	35
WPT 10	0.25	swc	2	33
WPT 9	0.25	expansive	2	26
WPT 8	0.25	swc	4	28
WPT 7	0.25	swc expansive	4	26
WPT 6	0.25	SWC	3	31
WPT 5	0.275	swc	3	41
WPT 4	0.275		3	48
WPT 3	0.3		3	48
WPT 2	0.3		3	48
WPT 1	0.35		2	48

ATTACHMENT 5: Soil Survey Information

TABLE 10. -- SANITARY FACILITIES

(Some terms that describe restrictive soil features are defined in the "Glossary." See text for definitions of "slight," "good," and other terms. Absence of an entry indicates that the soil was not rated. The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Soil name and map symbol	 Septic tank absorption fields	Sewage lagoon areas 	 Trench sanitary landfill	 Area sanitary landfill	Daily cover for landfill
	1	1	1	1	1
		1	1		
AnB	Slight	Severe:	Severe:	Severe:	Poor:
Alpin	1	seepage.	seepage,	seepage.	seepage,
	1		too sandy.		i too sandy.
A+A	I Severe :	 Severe:	ł Sewero :	 Severe:	l Fair:
Altavieta	wetness	vetness	Severe.	wetnoss	vetness.
AICAVISCA	1	i weeness.	wechess.	wethess:	too clavev.
	i	i		1	1
Au	Severe:	Severe:	Severe:	Severe:	Poor:
Augusta	wetness.	wetness.	wetness.	wetness.	wetness.
	1	1	1	1	1
АуА	Severe:	Moderate:	Moderate:	Slight	Fair:
Aycock	percs slowly.	seepage,	too clayey.	1	too clayey.
		wetness.	1		1
AyB	Severe:	Moderate:	Moderate:	Slight	Fair:
AYCOCK	percs slowiy.	i seepage,	1 too clayey.		too clayey.
	1	SLOPE, wetness	1		1
		1	1	1	
Bb	Severe:	Severe:	Severe:	Severe:	Poor:
Bibb	flooding,	flooding,	flooding,	flooding,	wetness.
	wetness.	wetness.	wetness.	wetness.	1
	1	1	1	1	1
BnB	Severe:	Severe:	Slight	Severe:	Good.
Blaney	percs slowly,	seepage.	ł	seepage.	1
	poor filter.			1	
D - D		1		1	1
Bhoney	Severe:	Severe:	Moderate:	Severe:	frair:
Бтапеу	1 percs slowry,	i slope	i stope.	i seepage.	i stope.
		I DIOPE.	l l	1	1
CaB	Slight	Severe:	Severe:	Severe:	Poor:
Candor	1	seepage.	too sandy.	seepage.	seepage,
	1	1	1	1	too sandy.
	1	1	ł	1	1
CaD	Moderate:	Severe:	Severe:	Severe:	Poor:
Candor	slope.	seepage,	too sandy.	seepage.	seepage,
	1	slope.		1	too sandy.
CoBarara	l Moderate:	 Moderate:	 Moderate:	 Slight	l (Fair:
Cecil	percs slowly		too clavey	SIIGHE	l too clavev
CECII		slope.	COO Clayey.	1	hard to pack
		1	1		
CeD	Moderate:	Severe:	Moderate:	Moderate:	Fair:
Cecil	percs slowly,	slope.	slope,	slope.	too clayey,
	slope.	1	too clayey.	1	slope,
I	I	1	1	1	hard to pack.
1		I	1	I	1
Ch*:		1		1	1
Chewacla	Severe:	Severe:	Severe:	Severe:	Poor:
	riooding,	flooding,	flooding,	flooding,	i hard to pack,
	wetness.	werness.	Wetness.	wetness.	wetness.
1	l	1	l I	ł	1

See footnote at end of table.

Soil name and map symbol	 Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area Sanitary landfill	 Daily cover for landfill
	1		1		1
Ch*:		1	1	1	,
Congaree	Severe:	Severe:	Severe:	Severe:	Poor:
	flooding,	flooding,	flooding,	flooding,	thin layer.
	wetness.	wetness.	wetness.	wetness.	1
Co	Severe:	Severe:	Severe:	Severe:	Poor:
Coxville	wetness,	wetness.	wetness.	wetness.	wetness.
	percs slowly.	1			
Doa	 Severe:	 Moderate:	 Moderate:	 Slight	l Good
Dothan	wetness,	seepage.	wetness.		
	percs slowly.	I	1	1	I
DeP	 Severe:	 Moderate:	 Moderate:	 Slight	 Good
Dothan	wetness,	seepage,	wetness.	l	19004.
	percs slowly.	slope.	i	i	Ì
		1			 The étain
Dethan	severe:	Severe:	wetness.	seepage.	fair: I too clavey.
Docinan	percs slowly.	wetness.	too clayey.		wetness.
	Ī		1	I	1
DyF.	1		1		1
Dystrochrepts	1		1	1	1
EnB	Severe:	Moderate:	Severe:	Slight	Poor:
Enon	percs slowly.	slope.	too clayey.	1	too clayey,
					hard to pack.
EnD	 Severe:	 Severe:	 Severe:	 Moderate:	Poor:
Enon	percs slowly.	slope.	too clayey.	slope.	too clayey,
	1			1	hard to pack.
Fv3	 Severe :	Severe	 Severe:	 Severe:	 Fair:
Exa	wetness,	wetness.	wetness.	wetness.	too clavev,
	percs slowly.	i	i	i	wetness.
			 Madamatas		
FaB	Severe: percs slowly.	Severe:	moderate: too sandy	Seepage	FOOI:
ruquay	poor filter.				
	1		1	1	1
FuB	Severe:	Severe:	Moderate:	Severe:	Poor:
ruquay	poor filter.	seepage.	coo sandy.	seepage.	Small Scones.
	1	Ì	Í	1	Í
GaA, GaB	Severe:	Severe:	Severe:	Moderate:	Fair:
Gilead	Wetness, percs slowly	wetness.	wetness. 	wetness.	too clayey, hard to pack
		1	1		
GaD	Severe:	Severe:	Severe:	Moderate:	Fair:
Gilead	wetness,	slope,	wetness.	wetness,	too clayey,
	i percs siowiy. 1	wetness. 	1	∣s⊥ope. I	naro to pack, slope.
		i		1	
Go A	Severe:	Severe:	Severe:	Severe:	Fair:
Goldsboro	wetness.	wetness.	wetness.	wetness.	wetness.
Gr	Severe '	 Severe:	 Severe :	 Severe:	Poor:
Grantham	wetness,	wetness.	wetness.	wetness.	wetness.
	percs slowly.	1	1	· · ·	
	l	1	T	1	I

TABLE 10.--SANITARY FACILITIES--Continued

See footnote at end of table.

TABLE 10.--SANITARY FACILITIES--Continued

	1	· · · · · · · · · · · · · · · · · · ·	1	· · · · · · · · · · · · · · · · · · ·	· · · · · ·
			1		
Soil name and	Septic tank	Sewage Lagoon	J Trench	Area	Daily cover
map symbol	absorption	areas	sanitary	sanitæry	for landfill
	fields	I	landfill	landf-ill	1
			<u> </u>		
	İ	i	1	1	i
HaB	- Severe:	Slight	- Severe:	Moderate:	Poor:
Helena	wetness,	1	wetness,	wetness.	too clavey,
	percs slowly.	i	too clavey		l hard to pack
	<u></u>	i			
LaB	- Slight	- Severe:	Severe:	 Severe:	Poor:
Lakeland	1	i seepage	seepage.		
Haverand		i beepaga:	too sandy	i seepage.	too gandy
			1 COO Sandy.		1 COO Sandy.
I.nB	-IModerate:	I Severe:	 Severe:	l Severe	
Lillington	percs slowly		l seenage		I small stopes
Lillington	perca arowry.	I seepage.	i seepage.	Scepage.	amaii scones.
LpD	 Moderate:	l Severe:	 Severe:	Severe:	l Poor:
Tillington	perce slowly				small stopes
Lillington	percs slowiy,	seepage,	seepage.	seepage.	Small Scones.
	i stope.	stope.			1
I	I Severe	I Severe:	Severe	l Severe ·	l Boor:
	- jevere.	Severe.	Severe.		
Lillington	stope.	seepage,	seepage,	seepage,	small stones,
		slope.	slope.	slope.	slope.
T - 7					1
TOR	- Severe:	Severe:	Severe:	Severe:	POOL
Louisa	depth to rock,	seepage,	seepage,	seepage,	slope,
	slope.	depth to rock,	depth to rock,	depth to rock,	depth to rock,
		slope.	slope.	slope.	thin layer.
-	1				
Ly	- Severe:	Severe:	Severe	Severe	Poor
Lynchburg	wetness.	wetness.	wetness.	werness.	wetness.
M-1	 Moderate:	l Moderato:	 Moderate:	l l Slight	l I Roja
	- moderate.			siignc== =======	l too olowoo
Mariboro	percs slowly.	seepage.	too clayey.		1 too clayey.
M-B	 Moderate:	I IModerate:	I Moderate:	1 1911 obt	l IFair:
	- moderace.	Modelace.		Diigne	
Mariboro	peres sitery.	seepage,	LOO CIAYEY.		1 COO CIAyey.
		stope.			1
Na	 Severe:	ISevere	 Sovere:	Severe:	I BOOT
Na	- Severe.	Severe:	Severe.	severe.	
Nanunta	weiness,	werness.	wetness.	weiness.	wetness.
	percs slowly.		1		
N-D	 Moderate:	l Sovoro:		l IModerate:	i I Deemi
Nederana	- Moderace.	jevere.	Jacob aleman	moderate.	
Nason	stope,	slope.	1 too clayey,	stope,	1 too clayey,
	depth to rock,	1	depth to rock.	depth to rock.	I hard to pack.
	percs slowly.	!	1	1	!
NoF	 Severo:	I Severa :	 Severe :	 Severo:	l IBoor:
NeE	Severe:	Severe	Severe:	Severe:	Poor:
Nason	stope.	stope.	depth to rock,	slope.	slope,
	1	1	slope,	1	too clayey,
		1	too clayey.	1	hard to pack.
W. 5 W. 5	 Madamatics	 Madamatas		 Madamata c	
NOA, NOB	Moderate:	Moderate:	Severe:	Moderate:	Fair:
Norfolk	wetness,	seepage,	wetness.	wetness.	too clayey.
	percs slowly.	wetness.	1	1	
			1	1	
NoC	Moderate:	Severe:	severe:	moderate:	Fair:
Norfolk	wetness,	slope.	wetness.	wetness,	too clayey,
	percs slowly,	1	1	slope.	slope.
	slope.	1	1	1	1
	1	1	1	1	1
NuB*:					1
Norfolk	Moderate:	Moderate:	Severe:	Moderate:	Fair:
	wetness,	seepage,	wetness.	wetness.	too clayey.
	percs slowly.	wetness.	1	1	1
	1	1	1	1	1

NuB*:	1	-			···
NuB*:	1				
urban land.	' 			 	
0rB	, Slight	- Moderate:	Slight	 Slight	- I Good .
Orangeburg	 	seepage, slope.	1	 	
aE	Severe:	Severe:	' Severe:	Severe:	Poor:
Pacolet	slope. 	slope. 	slope. 	slope. 	slope.
°c	Severe:	Severe:	Severe:	Severe:	Poor:
Pactolus	wetness, poor filter.	seepage, wetness. 	seepage, wetness. 	seepage, wetness. 	seepage.
d*:	1			1	
Pits.	1			• •	i
Dumps.	1			r 	
?f	Moderate:	Severe:	Slight	Severe:	Good.
Pocalla	wetness.	seepage. 	1	seepage.	i I
, n/	Severe:	Severe:	Severe:	Severe:	Poor:
Polawana	flooding,	seepage,	flooding,	flooding,	seepage,
I	ponding,	flooding,	seepage,	seepage,	too sandy,
	poor filter.	ponding. 	ponding.	ponding.	ponding.
, s	Severe:	Severe:	Severe:	Severe:	Poor:
Portsmouth	wetness,	seepage,	seepage,	seepage,	seepage,
1	poor filter.	wetness.	wetness,	wetness.	<pre> too sandy,</pre>
			too sandy. 	1	wetness.
ta	Severe:	Severe:	Severe:	Severe:	Poor:
Rains	wetness.	wetness.	wetness.	wetness.	wetness.
ъ*: I		1	-		
Rains	Severe:	Severe:	Severe:	Severe:	Poor:
	wetness.	wetness.	wetness.	wetness.	wetness.
Urban land.					
.o/	Severe:	Severe:	Severe:	Severe:	Poor:
Roanoke	flooding,	seepage,	flooding,	flooding,	too clayey,
	wetness,	flooding.	seepage,	wetness.	hard to pack,
	percs slowly.		wetness.		wetness.
tA	Moderate:	Severe:	Severe:	Moderate:	Fair:
State	flooding,	seepage.	seepage,	flooding,	too clayey,
l	wetness, percs slowly.		wetness.	wetness.	thin layer.
ا ; [، [Severe:	 Severe:	 Severe:	Severe:	 Poor:
Toisnot	cemented pan,	seepage,	ponding.	ponding,	cemented pan,
I	ponding, percs slowly.	cemented pan, ponding.		cemented pan.	ponding.
i			· ·		
 aB	Severe:	 Severe:	 Severe:	Severe:	 Fair:

TABLE IU SANITARY FACILITIESCONTINUE	TABLE	10.	SANITARY	FACILITIESContin	nued
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See footnote at end of table.

TABLE 10.--SANITARY FACILITIES--Continued

Soil name and	Septic tank	Sewage lagoon	Trench	Area	Daily cove:
map symbol	absorption fields	areas 	sanitary landfill	sanitary landfill	for landfil.
'aD	 Severe:	 Severe:	 Severe:	 Severe:	 Fair:
Vaucluse	percs slowly. 	seepage, slope. 	seepage. 	seepage. 	too clayey, slope.
′eB	 - Severe:	 Severe:	Severe:	 Severe :	 Fair:
Vaucluse	percs slowly.	seepage.	seepage.	, seepag∈.	too clayey.
'eD	 - Severe:	 Severe:	 Severe:	 Severe:	 Fair:
Vaucluse	percs slowly. 	seepage, slope.	seepage.	seepage.	too clayey, slope.
'eE	 Severe:	 Severe:	Severe:	 Severe:	 Poor:
Vaucluse	percs slowly, slope.	seepage, slope.	seepage, slope.	seepage, slope.	slope.
aB	 Moderate:	 Severe:	 Slight	 Severe:	l Good.
Wagram	percs slowly.	seepage.		seepage.	
aC	 Moderate:	 Severe:	 Moderate:	 Severe:	 Fair:
Wagram	percs slowly, slope. 	seepage, slope. 	slope. 	seepage. 	slope.
e	 Severe:	Severe:	Severe:	Severe:	 Poor:
Wahee	flooding, wetness, percs slowly.	flooding. 	flooding, wetness, too clayey.	flooding, wetness. 	too clayey, hard to pack, wetness.
fB	¦ · Severe:	 Severe:	 Severe:	 Severe:	i Poor:
Wakulla	poor filter.	seepage.	seepage.	seepage.	seepage.
h 	 Severe:	 Severe:	 Severe:	 Severe:	 Poor:
Wehadkee	flooding, wetness.	flooding, wetness.	flooding, wetness.	flooding, wetness. 	wetness, thin layer.
kB	 Moderate:	Moderate:	 Moderate:	Moderate:	 Fair:
Wickham	flooding, percs slowly.	seepage, slope.	flooding, too clayey.	flooding. 	too clayey.
kD	Moderate:	Severe:	Moderate:	Moderate:	Fair:
Wickham	flooding, percs slowly.	slope. 	flooding, slope,	flooding, slope.	slope, too clayey.

* See description of the map unit for composition and behavior characteristics of the map unit.

ATTACHMENT 6: Septic System Area Computation Spreadsheets

Conventional Septic System Area Computation	on		Created by: Created on: Updated on:	SG 6/20/2001 5/13/2021
Client Name:	Pollock			
Number Bedrooms:	3			
Design Flow (gal/day):	360	(120 gal/day/bedroom	, minimum 240 gal/day	/dwelling)
LTAR (gal/day/ft ²)	0.1			
Trench Bottom Area (ft ²):	3600	(Design flow/LTAR)		
Trench Width (ft):	3	,		
On-center distance between trenches (ft):	9			
Trench Bottom Length (ft):	1200			
Minimum Field Area Required (ft ²):	10800	(Trench Bottom Lengt	h*Trench on-center dis	tance)
Minimum Field Area Required (Innovative) (ft ²):	8100	(25% reduction from a	bove)	
Total Field Area Required (ft ²) ⁽¹⁾ :	27000	(Minimum field area*2	.5)	
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	20250	(25% reduction from a	bove)	
Total Field Area Required (ft ²) ⁽¹⁾ :	32400	(Minimum field area*3))	
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	24300	(25% reduction from a	bove)	

(1) Provides for reserve area and soil irregularity, 2.5 to 3 is multiplier.

Client Name:	Pollock
Number Bedrooms:	3
Design Flow (gal/day):	360 (120 gal/day/bedroom, minimum 240 gal/day/dwelling)
LTAR (gal/day/ft ²)	0.4
Trench Bottom Area (ft ²):	900 (Design flow/LTAR)
Trench Width (ft):	3
On-center distance between trenches (ft):	9
Trench Bottom Length (ft):	300
Minimum Field Area Required (ft ²):	2700 (Trench Bottom Length*Trench on-center distance)
Minimum Field Area Required (Innovative) (ft ²):	2025 (25% reduction from above)
Total Field Area Required (ft ²) ⁽¹⁾ :	6750 (Minimum field area*2.5)
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	5062.5 (25% reduction from above)
Total Field Area Required (ft ²) ⁽¹⁾ :	8100 (Minimum field area*3)
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	6075 (25% reduction from above)

(1) Provides for reserve area and soil irregularity, 2.5 to 3 is multiplier.

Client Name:	Pollock
Number Bedrooms:	3
Design Flow (gal/day):	360 (120 gal/day/bedroom, minimum 240 gal/day/dwelling)
LTAR (gal/day/ft ²)	0.25
Trench Bottom Area (ft ²):	1440 (Design flow/LTAR)
Trench Width (ft):	3
On-center distance between trenches (ft):	9
Trench Bottom Length (ft):	480
Minimum Field Area Required (ft ²):	4320 (Trench Bottom Length*Trench on-center distance)
Minimum Field Area Required (Innovative) (ft ²):	3240 (25% reduction from above)
Total Field Area Required (ft ²) ⁽¹⁾ :	10800 (Minimum field area*2.5)
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	8100 (25% reduction from above)
Total Field Area Required (ft ²) ⁽¹⁾ :	12960 (Minimum field area*3)
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	9720 (25% reduction from above)

(1) Provides for reserve area and soil irregularity, 2.5 to 3 is multiplier.

Conventional Septic System Area Computation	on	Created by: Created on: Updated on:	SG 6/20/2001 5/13/2021
Client Name:	Pollock		
Number Bedrooms:	4		
Design Flow (gal/day):	480	(120 gal/day/bedroom, minimum 240 ga	al/day/dwelling)
LTAR (gal/day/ft ²)	0.1		
Trench Bottom Area (ft ²):	4800	(Design flow/LTAR)	
Trench Width (ft):	3		
On-center distance between trenches (ft):	9		
Trench Bottom Length (ft):	1600		
Minimum Field Area Required (ft ²):	14400	(Trench Bottom Length*Trench on-cent	ter distance)
Minimum Field Area Required (Innovative) (ft ²):	10800	(25% reduction from above)	
Total Field Area Required (ft ²) ⁽¹⁾ :	36000	(Minimum field area*2.5)	
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	27000	(25% reduction from above)	
Total Field Area Required (ft ²) ⁽¹⁾ :	43200	(Minimum field area*3)	
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	32400	(25% reduction from above)	

(1) Provides for reserve area and soil irregularity, 2.5 to 3 is multiplier.

Client Name:	Pollock	
Number Bedrooms:	4	
Design Flow (gal/day):	480	(120 gal/day/bedroom, minimum 240 gal/day/dwelling)
LTAR (gal/day/ft ²)	0.4	
Trench Bottom Area (ft ²):	1200	(Design flow/LTAR)
Trench Width (ft):	3	
On-center distance between trenches (ft):	9	
Trench Bottom Length (ft):	400	
Minimum Field Area Required (ft ²):	3600	(Trench Bottom Length*Trench on-center distance)
Minimum Field Area Required (Innovative) (ft ²):	2700	(25% reduction from above)
Total Field Area Required (ft ²) ⁽¹⁾ :	9000	(Minimum field area*2.5)
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	6750	(25% reduction from above)
Total Field Area Required (ft ²) ⁽¹⁾ :	10800	(Minimum field area*3)
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	8100	(25% reduction from above)

(1) Provides for reserve area and soil irregularity, 2.5 to 3 is multiplier.

Client Name:	Pollock	
Number Bedrooms:	4	
Design Flow (gal/day):	480 (120 g	gal/day/bedroom, minimum 240 gal/day/dwelling)
LTAR (gal/day/ft ²)	0.25	
Trench Bottom Area (ft ²):	1920 (Desi	gn flow/LTAR)
Trench Width (ft):	3	
On-center distance between trenches (ft):	9	
Trench Bottom Length (ft):	640	
Minimum Field Area Required (ft ²):	5760 (Tren	ch Bottom Length*Trench on-center distance)
Minimum Field Area Required (Innovative) (ft ²):	4320 (25%	reduction from above)
Total Field Area Required (ft ²) ⁽¹⁾ :	14400 (Minir	num field area*2.5)
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	10800 (25%	reduction from above)
Total Field Area Required (ft ²) ⁽¹⁾ :	17280 (Minir	num field area*3)
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	12960 (25%	reduction from above)

(1) Provides for reserve area and soil irregularity, 2.5 to 3 is multiplier.

Conventional Septic System Area Computation	on	Crea Crea Upd	ated by: ated on: lated on:	SG 6/20/2001 5/13/2021
Client Name:	Pollock			
Number Bedrooms:	5			
Design Flow (gal/day):	600	(120 gal/day/bedroom, min	imum 240 gal/day/	dwelling)
LTAR (gal/day/ft ²)	0.1			
Trench Bottom Area (ft ²):	6000	(Design flow/LTAR)		
Trench Width (ft):	3			
On-center distance between trenches (ft):	9			
Trench Bottom Length (ft):	2000			
Minimum Field Area Required (ft ²):	18000	(Trench Bottom Length*Tre	ench on-center dist	ance)
Minimum Field Area Required (Innovative) (ft ²):	13500	(25% reduction from above)	
Total Field Area Required (ft ²) ⁽¹⁾ :	45000	(Minimum field area*2.5)		
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	33750	(25% reduction from above)	
Total Field Area Required (ft ²) ⁽¹⁾ :	54000	(Minimum field area*3)		
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	40500	(25% reduction from above	e)	

(1) Provides for reserve area and soil irregularity, 2.5 to 3 is multiplier.

Pollock
5
600 (120 gal/day/bedroom, minimum 240 gal/day/dwelling)
0.4
1500 (Design flow/LTAR)
3
9
500
4500 (Trench Bottom Length*Trench on-center distance)
3375 (25% reduction from above)
11250 (Minimum field area*2.5)
8437.5 (25% reduction from above)
13500 (Minimum field area*3)
10125 (25% reduction from above)

(1) Provides for reserve area and soil irregularity, 2.5 to 3 is multiplier.

Client Name:	Pollock	
Number Bedrooms:	5	
Design Flow (gal/day):	600 (120 gal/day	/bedroom, minimum 240 gal/day/dwelling)
LTAR (gal/day/ft ²)	0.25	
Trench Bottom Area (ft ²):	2400 (Design flow	/LTAR)
Trench Width (ft):	3	
On-center distance between trenches (ft):	9	
Trench Bottom Length (ft):	800	
Minimum Field Area Required (ft ²):	7200 (Trench Bott	om Length*Trench on-center distance)
Minimum Field Area Required (Innovative) (ft ²):	5400 (25% reduct	ion from above)
Total Field Area Required (ft ²) ⁽¹⁾ :	18000 (Minimum fie	eld area*2.5)
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	13500 (25% reduct	ion from above)
Total Field Area Required (ft ²) ⁽¹⁾ :	21600 (Minimum fie	eld area*3)
Total Field Area Required (Innovative) (ft ²) ⁽¹⁾ :	16200 (25% reduct	ion from above)

(1) Provides for reserve area and soil irregularity, 2.5 to 3 is multiplier.