

1. AVERAGE DESIGN FLOW:												
A. Number of Bedrooms												
	Fixture Count (see	Table B)										
	or Other than single	e-family dwel	lling:			gallons per day from Ta	y from Table 1, Unit Design Flows					
	Design Flow (Table A or Table 1): Gallons Per						Day (GPD)					
В.	B. Septic Tank Capacity (Table A):					Gallons						
	Number of Septic 7	partments	5:									
	Effluent Screen & A	A <i>larm</i> ?				<u>.</u> [						
	Table A - Criteria for Septic Tank Size and Design Flow					Table B -	Dertermi	ning Fixture count				
	Tubio / Critici	ia for doptio fo	Design	_		Table 5		ing rixtare count				
	Number of Bedrooms	Fixture Count	Liquid Capacity	Design Flow (gal/day)		Residential Fixture Type	Fixture Unit	Residential Fixture Type	Fixture Unit			
	1	7 or less More than 7	1000	150 300		Bathtub	2	Sink, bar	1			
	2	14 or less	1000	300		Bidet	2	Sink, kitchen (including	2			
	-	More than 14	1000	450 450		Bidet		dishwasher)	-			
	3	3 21 or less 1000 450 More than 21 1250 600		Clothes washer	2	Sink, service	3					
	4	28 or less More than 28	1250 1500	600 750		Dishwasher (Separate from kitchen	2	Utility tub or sink	2			
	5	35 or less	1500	750		Lavatory, single	1	Water closet, 1.6 gallons	3			
		More than 35 42 or less	2000 2000	900 900		Lavatory, double in Master		per flush (gpf) Water closet, greater than				
	6	More than 42	2500	1050		bedroom	1	1.6 to 3.2 gpf	4			
	7	49 or less More than 49	2500 3000	1050 1200		Shower, single stall	2	Water closet, greater than 3.2 gpf	6			
	8	56 or less More than 56	2000 3000	1200 1350						•		
		L										
2.	SITE EVALUATION:											
Α.	Depth to Limiting L	Layer:				inches		ft				
В.	3. Maximum Depth of System: inches							ft				
	(a negative number	means an al	ternate sy	stem is required)		<u> </u>						
C.	Type of Soil Treatn	ment and Disp	ersal Are	a:								
D.	Type of <i>Distribution</i>	n:										
E.	Landscape Position	:										
F.	Soil Texture :							Rise	Ri	un		
	Percent Land Slope	·:				% Slope	=	÷		x 100 =	%	
3.	SOIL ABSORPTION		Use eithe	rA B orC be	low	70 0.000	_	<u> </u>		X 100		
	Calculating SAR when											
		L DESCRIPTION										
				<u>'</u>				Table C - SAR Using Soi	l Characte	eristics by Dispersal Type SAR	SAR	
	Texture						equence o	of Soil Characteristics Question	S	Trench, Chamber, Pit (GPD/ft <sup>+</sup> )	Bed (GPD/ft <sup>-</sup> )	
	Structure							velly coarse sand or coarser?		A site-specific SAR is required	A site-specific SAR is required	
	Grade						B. Is the the structure of the horizon moderate or strongly platy?  A site-specific SAR is required required required.  C. Is the texture of the horizon sandy clay loam, clay loam,  A site-specific SAR is A					
	Consistence						oam, or fi	ner and the soil structure weak stency stronger than firm or ar	required  A site-specific SAR is	A site-specific SAR is required A site-specific SAR is		
	(moist)						class? xture san	dy clay, clay, or silty clay of hi	required A site-specific SAR is	required A site-specific SAR is		
	Select SAR (Use Table C): GPD/ft2						content and the structure massive or weak?  F. Is the texture sandy clay loam, clay loam, silty clay loam			required A site-specific SAR is	required A site-specific SAR is	
							or silty loam and the structure massive?  G. Is the texture of the horizon loam or sandy loam and the			required 0.20	required 0.13	
							structure masssive?  H. Is the texture sandy clay, or silty clay of low clay content					
							ucture mo	oderate or strong? dy clay loam, clay loam, or sitl		0.20	0.13	
								ure weak? dy clay loam, clay loam, or silt	y clay	0.20	0.13	
						K. Is the to	xture san	ire moderate or strong? dy loam, loam, or silty loam ar	nd the	0.40	0.27	
							xture san	dy loam, loam, or silt loam and	the	0.60	0.40	
							exture fin	or strong? e sand, very fine sand, loamy f	ine sand,	0.40	0.40	
						or loamy v		and? my sand or sand?		0.80	0.53	
								irse sand?		1.20	A site-specific SAR is	
						o. is the t	600	Jana.		1.20	required	

В	. Calculating SAR when using soil perco	olation method										
	Table D - SAR Using	Percolation Rate by I	Dispersal Type									
	Percolation Rate	SAR	SAR									
	(mpi)	Trench, Chamber, Pit	Bed ( <b>GPD/ft²</b> )									
	Less than 1.00	A site-specific SAR is required	A site-specific SAR is required									
	1.00 to less than 3.00	1.20	0.93									
	3.00	1.10	0.73									
	4.00	1.00	0.67									
	5.00	0.90	0.60									
	7.00	0.75	0.50									
	10.0	0.63	0.42									
	15.0	0.50	0.33									
	20.0	0.44	0.29									
	25.0	0.40	0.27									
	30.0	0.36	0.24									
	35.0	0.33	0.22									
	40.0	0.31	0.21									
	45.0	0.29	0.20									
	50.0	0.28 0.19										
	55.0	0.27	0.18									
	55.0+ to 60.0	0.25	0.17									
	60.0+ to 120	0.20	0.13									
	Greater than 120	A site-specific SAR is required	A site-specific SAR is required									
	Slowest measured perc rate: (from Uniform State Report form)		Note: use lowest perc rate, NOT average of rates									
	Select SAR (Use Table D):		GPD/ft <sup>2</sup>									
_	Calculating the Adjusted Soil Absorption Rate (SAR <sub>a</sub> )											
_	SAR <sub>a</sub> = $(\{[11.39 \div (TSS + BOD_5)^{1/3}] - 1.87)$			l .								
			vater delivered to soil treatment	area, mg/L								
			emand of wastewater delivered to									
	SAR = soil absor	ption rate for septic ta	ank effluent determined by soil ch	naracterization method (3.B.), GPD/ft <sup>2</sup>								
	(TSS)	(BOI	O <sub>5</sub> ) (S	AR) (SAR)								
	SAR <sub>a</sub> = ({{11.39 ÷	+	) <sup>1/3]</sup> - 1.87} x	1.13 + 1) x = GPD/ft <sup>2</sup>								
	ORGANIC LOADING (if pretreatn	nent is being used)	)									
-	Organic Loading = Design Flow GPD X 170		nd BOD (mg/L) in the effluer X 8.35 ÷	at X 8.35 (lb/gal*(mg/L)) ÷ 1,000,000 1,000,000 = Ibs BOD								
	I hereby certify that I have complete	ted this work in acco	rdance with all applicable ordi	nances, rules and laws.								