15A NCAC 18		VALUES	то	DETERMINE	VARIOUS	CLASSES	OF
The designation	of public water syste	em treatment clas	sificatio	ons shall be based of			
(1)	PARAMETER	# 22			RATING VAL	UE	
(1)	Surface Water Sou (a) flowing st				5		
		ream with impou	ndmont		5 7		
		treatment	mumem		3		
(2)	Ground Water Sou				5		
(2)	(a) first five v				5		
	· /	nt per 5 wells or f	raction	thereof over 5	1		
(3)	Coagulation				-		
		sulfate, ferric ch	loride		10		
	(b) polymer				5		
(4)	Mixing						
	(a) baffle				2		
	(b) mechanica	al			4		
	(c) air				3		
(5)	Oxidation (pre-trea	atment)					
	(a) $C1_20_2$				5		
	(b) ozone				5		
	(c) $KMn0_4$				3		
	(d) $C1_2$				3		
(6)	Carbon Treatment				2		
(7)	Aeration	1 1 6			2		
	(a) mechanica				3		
		or splash tray			2 3		
		wer (VOC reduct	ion)		5 10		
(8)	pH Adjustment (pr		.1011)		10		
(0)	(a) caustic (N				10		
	(b) lime or so				3		
	(c) acid				10		
(9)	Sedimentation						
	(a) standard r	ate			5		
	(b) tube settle	ers			3		
	(c) upflow				8		
	(d) pulsators	and plates			5		
(10)	Contact Tank				1		
(11)	Filtration						
	(a) pressure						
		and or anthracite			8		
		ynthetic media (b			8		
		granular activated	carbon	(GAC)	9		
	(b) gravity				10		
		and		C	10 12		
		inthracite (mixed) with surface wash			12		
	(c) membrane			cour	10		
(12)	Ion Exchange				10		
(12)	(a) softener, l	Na cycle			5		
	(b) softener, l				7		
		n (greensand)			9		
		l or split stream			9		
(13)	Lime Softening	1			-		
	(a) spiractors				10		

	(1.)	1		10
	(b)	clarifier with coagulation		12
(1.4)	(c)	fuel burner (recarbonatio	n)	5
(14)		te (sequestering agent)		5
(15)	Stabiliz			10
	(a)	acid feed		10
	(b)	phosphate		2
	(c)	caustic (NaOH)		10
	(d)	lime or soda ash		3 5
(1c)	(e) D	contact units		
(16)		Osmosis, Electrodialysis		15
(17)	Disinfe			10
	(a)	gas $C1_2$		10
	(b)	hypochlorite solution	101)	7
	(c)	$C1_20_2$ (sodium chlorite an	d C1 ₂)	13
	(d)	ozone		13
	(e)	ammonia and $C1_2$		12
(10)	(f)	ultraviolet light (uv)		5
(18)	Fluorid			o
	(a)	saturator		8
	(b)	dry feed		8
(10)	(c)	solution (acid)		10
(19)	Pumpin			2
	(a)	raw		3
	(b)	intermediate finished		1 3
	(c)	finished		3 2
(20)	(d) Starsa	system booster		2
(20)	Storage	* 011		1
	(a) (b)	raw		1
	(D)			
		treated ground level tank		
	(c)	elevated in system (each		2
(21)	(c) (d)	elevated in system (each hydropneumatic	extra tank 1 point)	2 2
(21)	(c) (d) Popula	elevated in system (each hydropneumatic on Served 1 point per 1,00	extra tank 1 point) 00 persons served	2 2 50 max
(22)	(c) (d) Popula Plant C	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD	extra tank 1 point) 00 persons served	2 2
	(c) (d) Popula Plant C On-Site	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control	extra tank 1 point) 00 persons served	2 2 50 max
(22)	(c) (d) Popula Plant C	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological	extra tank 1 point) 00 persons served	2 2 50 max 25 max
(22)	(c) (d) Popula Plant C On-Site	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF	extra tank 1 point) 00 persons served	2 2 50 max 25 max 5
(22)	(c) (d) Popula Plant C On-Site	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC	extra tank 1 point) 00 persons served o capacity	2 2 50 max 25 max 5
(22)	(c) (d) Popula Plant C On-Site (a)	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C	extra tank 1 point) 00 persons served o capacity	2 2 50 max 25 max
(22)	(c) (d) Popula Plant C On-Site	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH	extra tank 1 point) 00 persons served o capacity	2 250 max 25 max 5 2 2
(22)	(c) (d) Popula Plant C On-Site (a)	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH (i) meter	extra tank 1 point) 00 persons served o capacity	2 2 50 max 25 max 5 2 2 2
(22)	(c) (d) Popula Plant C On-Site (a) (b)	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH (i) meter (ii) test kit	extra tank 1 point) 00 persons served o capacity	2 250 max 25 max 5 2 2
(22)	(c) (d) Popula Plant C On-Site (a)	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH (i) meter (ii) test kit fluoride	extra tank 1 point) 00 persons served o capacity	2 250 max 25 max 5 2 2 2 1
(22)	(c) (d) Popula Plant C On-Site (a) (b)	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH (i) meter (ii) test kit fluoride (i) meter	extra tank 1 point) 00 persons served o capacity	2 250 max 25 max 5 2 2 1 3
(22)	 (c) (d) Popula Plant C On-Site (a) (b) (c) 	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH (i) meter (ii) test kit fluoride (i) meter (ii) colorimetric	extra tank 1 point) 00 persons served o capacity	2 250 max 25 max 5 2 2 2 1
(22)	(c) (d) Popula Plant C On-Site (a) (b)	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH (i) meter (ii) test kit fluoride (i) meter (ii) colorimetric chlorine	extra tank 1 point) 00 persons served o capacity	2 2 50 max 25 max 5 2 2 2 1 3 3
(22)	 (c) (d) Popula Plant C On-Site (a) (b) (c) 	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH (i) meter (ii) test kit fluoride (i) meter (ii) colorimetric chlorine (i) titrator	extra tank 1 point) 00 persons served 0 capacity olilert)	2 2 50 max 25 max 5 2 2 1 3 3 3
(22)	 (c) (d) Popula Plant C On-Site (a) (b) (c) 	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH (i) meter (ii) test kit fluoride (i) meter (ii) colorimetric chlorine (i) titrator (ii) colorimeter/spec	extra tank 1 point) 00 persons served 0 capacity olilert)	2 2 50 max 25 max 5 2 2 2 1 3 3 3 2
(22)	 (c) (d) Popula Plant C On-Site (a) (b) (c) (d) 	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH (i) meter (ii) test kit fluoride (i) meter (ii) colorimetric chlorine (i) titrator (ii) colorimeter/spec (iii) test kit	extra tank 1 point) 00 persons served 0 capacity olilert)	2 2 50 max 25 max 5 2 2 1 3 3 2 1
(22)	 (c) (d) Popula Plant C On-Site (a) (b) (c) (d) (e) 	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH (i) meter (ii) test kit fluoride (i) meter (ii) colorimetric chlorine (i) titrator (ii) colorimeter/spec (iii) test kit iron	extra tank 1 point) 00 persons served 0 capacity olilert)	2 2 50 max 25 max 5 2 2 1 3 3 2 1 1
(22)	 (c) (d) Popula Plant C On-Site (a) (b) (c) (d) (e) (f) 	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH (i) meter (ii) test kit fluoride (i) meter (ii) colorimetric chlorine (i) titrator (ii) colorimeter/spec (iii) test kit iron hardness	extra tank 1 point) 00 persons served 0 capacity olilert)	2 2 50 max 25 max 5 2 2 1 3 3 2 1 1 1
(22)	 (c) (d) Popula Plant C On-Site (a) (b) (c) (d) (e) (f) (g) 	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH (i) meter (ii) test kit fluoride (i) meter (ii) colorimetric chlorine (i) titrator (ii) colorimeter/spec (iii) test kit iron hardness alkalinity	extra tank 1 point) 00 persons served 0 capacity olilert)	2 2 50 max 25 max 5 2 2 1 3 3 2 1 1 1 1
(22)	 (c) (d) Popula Plant C On-Site (a) (b) (c) (d) (e) (f) (g) (h) 	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH (i) meter (ii) test kit fluoride (i) meter (ii) colorimetric chlorine (i) titrator (ii) colorimeter/spec (iii) test kit iron hardness alkalinity turbidity	extra tank 1 point) 00 persons served 0 capacity olilert)	2 2 50 max 25 max 5 2 2 1 3 3 2 1 1 1 1 1
(22)	 (c) (d) Popula Plant C On-Site (a) (b) (c) (d) (e) (f) (g) (h) (i) 	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH (i) meter (ii) test kit fluoride (i) meter (ii) colorimetric chlorine (i) titrator (ii) colorimeter/spec (iii) test kit iron hardness alkalinity turbidity manganese	extra tank 1 point) 00 persons served 0 capacity olilert)	2 2 50 max 25 max 5 2 2 1 3 3 3 2 1 1 1 1 1 1
(22)	 (c) (d) Popula Plant C On-Site (a) (b) (c) (d) (e) (f) (g) (h) 	elevated in system (each hydropneumatic on Served 1 point per 1,00 pacity 1 point per 1 MGD Quality Control bacteriological (i) MPN/MF (ii) HPC (iii) MMO-MUG (C pH (i) meter (ii) test kit fluoride (i) meter (ii) colorimetric chlorine (i) titrator (ii) colorimeter/spec (iii) test kit iron hardness alkalinity turbidity	extra tank 1 point) 00 persons served 0 capacity olilert)	2 2 50 max 25 max 5 2 2 1 3 3 2 1 1 1 1 1

History Note: Authority G.S. 90A-21(c); 90A-22; Eff. February 1, 1976; Readopted Eff. March 1, 1979; Amended Eff. August 1, 2000; August 3, 1992; January 1, 1992; September 1, 1990; Readopted Eff. September 1, 2018.