aunton River Estuary TN Loading, TN and TP Limits, and Permit Reissuance Status								12/7/2025	
WWTF	Design Q	TN Limit	Est. Load	Expiration	End of	Reissuance	Time Reisssuance	Months Since	TP Limit
	(MGD)	lbs/d (mg/L)	lbs/day*	Prev. Per.	Public Notice	Date	Overdue	Pub. Not. End	mg/L**
	(1.00/ 0. (11.8/ =/	,						6/ -
Brockton	18	450 (3)***	361	5/11/2010	4/20/2015	1/11/2017	6 years, 8 months	1 year, 8 months	0.101
Taunton	8.4	210 (3)	189	3/27/2006			9 years (appealed*)	1 year, 9 months	none
Somerset	4.2	175 (5)	158	9/30/2008			15 years, 9 months	4 months	none
Mansfield/Norton/Foxboro	3.14	131 (5)	98	9/30/2008	3/29/2013		•	1 year, 6 months	0.17
Middleborough	2.16	90 (5)	74	11/3/2008			5 years, 6 months	6 months	0.15
Bridgewater	1.44	60 (5)	52	12/30/2008			7 years, 9 months**	2 years	0.2
	***() Wasteload allocation TN limitations in mg/l.						5/3/2016 on all grounds		
Smaller Facilities		46 requirements of permit are in effect as of 7/01/2016							
(at current loads)							** Bridgewater appealed 1	.1/17/2016 (10 days late).	
							Appeal voluntarily dismisse	ed 4/07/2017.	
							Bridgewater and EPA reached a settlement.		
							Permit in effect on 5/1/2017, 5 yr TN and 10 yr TP sch		hed.
							* Taunton lost First Circuit		
Fall River***	30.9	1289 (5)	1160.1	12/7/2005	4/16/2024	Not Reissued	20 years		none
* Estuary Load based	on plants disc	charging at 90%	of flow limit	during summe	r and an attenua	ation factor fro	om 83 to 96% for all		
, 							ry with no attenuation	reduction.	
						Ĺ	•		
**EPA Gold Book Total F	hosphorus fre	shwater instream	criterion is 0.	100 mg/L. No TP	limit for Tauntor	, Somerset and	Fall River which discharg	e to tidal waters.	
***Nominal concentrati	ons (3 and 5 m	ng/L) were used to	calculate ma	ss (lbs/day) limit	at design flow. T	he permits hav	e a mass lbs/day limit on	ly.	
	At the proje	cted 0.9% of desig	n summer flo	w the concentra	tion limits are: 3.	33 mg/L and 5.5	55 mg/L.		
	At typical su	ımmer seasonal lo	w flows of 70	% of design flow	the concentratio	n limits are: 4.2	.8 mg/L and 7.14 mg/L		
**** Fall River lower do	wn stream in t	he estuary has mo	ore tidal diluti	on but also has t	he largest waster	water flow (3.7 t	imes Taunton's effluent	discharge).	
	Consequent	ly, it should const	ruct a WWTP	upgrade employ	ing treatment sin	nilar to Taunton	and Brockton despite its	higher limits.	
	Despite its	nominally highe	<mark>r nitrogen li</mark> i	mit basis (5 vs 3	3 mg/) Fall River	should install	4 phase Bardenpho tro	eatment the same as	
	Taunton ar	nd Brockton so a	ny level of n	<mark>eeded treatme</mark>	<mark>nt may be obtai</mark>	<mark>ned in the fut</mark> t	ire because of its large	size (30.9 MGD).	
		· ·	•				<mark>ermits. "EPA highlights</mark>		ement
							he short term (in this, o		
	and the po	tentail for furthe	er reductions	in the long-ter	rm down to 3 m	g/I) as necessa	ry based on observed	water quality impacts	."
	Typically th	ne difference bet	ween meeti	ng a summer T	N limit of 3 vs 5	mg/I for a plan	nt with the right techno	ology is adding a relat	ively
	inexpensiv	<mark>re carbon source</mark>	like methan	ol to improve l	oiological nitrog	en removal ef	ficiency.		
	Fall River s	hould continue o	combined se	wer overflow (CSO) abatement	t to eventually	eliminate untreated w	astewater discharges	