

2025 TRWA Sampling Results for Nitrate (mg/l)			TARGET FOR CONCERN - GREATER THAN 0.4 MG/L							
Sample	Site No.	River & Location Description	April	May	June	July	August	Sept.	Oct.	AVG**
1	TNT-01	Taunton R. Br, Center St., Berkley	0.43	0.23	0.41					0.32
2	TNT-02	Taunton R. Br, Plain St., Taunton	0.41	0.23	0.30					0.26
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	0.42	0.26	0.31					0.29
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	0.57	0.34	0.39					0.37
5	ASO-01	Assonet R. Bridge, Rt 79	0.06	0.06	0.06					0.06
6	SEG	Segregansett R. Br, Brook St. Dighton	0.16	0.16	0.26					0.21
7	BER-01	Chuckamucksett Brk. Br, Berkley St.	0.33	0.44	0.98					0.71
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	0.16	0.19	0.35					0.27
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	0.26	0.19	0.03					0.11
10	TMR-03	Three Mile R. Br, Crane St., Norton	0.20	0.14	0.17					0.15
11	MIL-01	Mill R., Ingell St., Taunton	0.08	0.07	0.05					0.06
12	MIL-02	Mill R., Washington St., Taunton	0.07	0.05	0.05					0.05
13	MIL-03	Mill R., Whittendon St., Taunton	0.06	0.05	0.05					0.05
14	FORGE	Forge R. Br, Rt 44, Raynham	0.25	0.15	0.15					0.15
15	COT-01	Cotley R., Middleboro Ave, Taunton	0.11	0.11	0.16					0.13
16	FBR-01	Furnace Brk., River St., Raynham	0.14	0.14	0.10					0.12
17	CHU-01	Taunton River Br, Church St., Raynham	0.46	0.30	0.31					0.30
18	TWH-01	Town R., Br, Hayward St., Bridgewater	0.17	0.14	0.19					0.17
19	MAT-01	Matfield R., Br, High St., Bridgewater	0.88	0.55	0.55					0.55
20	NEM-01	Nemasket R., Murdock St., Middleboro	0.23	0.23	0.08					0.16
Month	Site No.	Duplicate and Blank Locations by Month	DUP #	Duplicate Results		BL #	Blank Results		** Avg is for the water quality months	
April	COT-01	Cotley R., Middleboro Ave, Taunton	DUP 1	0.12		BL 1	<0.0500		of May through October used in	
	BER-01	Chuckamucksett Brk. Br, Berkley St.	DUP 2	0.35		BL 2	<0.0500		NPDES permit TN limitation averaging.	
May	FBR-01	Furnace Brk., River St., Raynham	DUP 1	0.14		BL 1	<0.0500			
	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	DUP 2	0.19		BL 2	<0.0500		NR = Not Reported, no sample	
June	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1	0.29		BL 1	<0.0500			
	ASO-01	Assonet R. Bridge, Rt 79	DUP 2	0.06		BL 2	<0.0500			
July	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	DUP 1			BL 1				
	SEG	Segregansett R. Br, Brook St. Dighton	DUP 2			BL 2				
August	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1			BL 1				
	MAT-01	Matfield R., Br, High St., Bridgewater	DUP 2			BL 2				
Sept.	COT-01	Cotley R., Middleboro Ave, Taunton	DUP 1			BL 1				
	MIL-01	Mill R., Ingell St., Taunton	DUP 2			BL 2				
Oct.	NEM-01	Nemasket R., Murdock St., Middleboro	DUP 1			BL 1				
	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	DUP 2			BL 2				

2025 TRWA Sampling Results for Total Phosphorus (mg/l)			TARGET FOR CONCERN - GREATER THAN 0.100 mg/l								
Sample	Site No.	River & Location Description	April	May	June	July	August	Sept.	Oct.	AVG**	
1	TNT-01	Taunton R. Br, Center St., Berkley	0.069	0.036	0.092					0.064	
2	TNT-02	Taunton R. Br, Plain St., Taunton	0.037	0.071	0.069					0.070	
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	0.037	0.065	0.074					0.070	
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	0.043	0.066	0.089					0.078	
5	ASO-01	Assonet R. Bridge, Rt 79	0.018	0.036	0.053					0.045	
6	SEG	Segregansett R. Br, Brook St. Dighton	0.015	0.034	0.046					0.040	
7	BER-01	Chuckamucksett Brk. Br, Berkley St.	0.013	0.031	0.028					0.029	
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	0.024	0.064	0.037					0.051	
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	0.019	0.035	0.038					0.037	
10	TMR-03	Three Mile R. Br, Crane St., Norton	0.015	0.029	0.028					0.028	
11	MIL-01	Mill R., Ingell St., Taunton	0.021	0.038	0.034					0.036	
12	MIL-02	Mill R., Washington St., Taunton	0.020	0.031	0.029					0.030	
13	MIL-03	Mill R., Whittendon St., Taunton	0.019	0.031	0.027					0.029	
14	FORGE	Forge R. Br, Rt 44, Raynham	0.029	0.069	0.115					0.092	
15	COT-01	Cotley R., Middleboro Ave, Taunton	0.011	0.018	0.019					0.019	
16	FBR-01	Furnace Brk., River St., Raynham	0.016	0.048	0.049					0.048	
17	CHU-01	Taunton River Br, Church St., Raynham	0.039	0.068	0.081					0.074	
18	TWH-01	Town R., Br, Hayward St., Bridgewater	0.039	0.066	0.099					0.082	
19	MAT-01	Matfield R., Br, High St., Bridgewater	0.050	0.072	0.085					0.079	
20	NEM-01	Nemasket R., Murdock St., Middleboro	0.033	0.044	0.053					0.048	
		Duplicate and Blank Locations by Month		Duplicate Results	Blank Results			** Avg is for the water quality months			
April	COT-01	Cotley R., Middleboro Ave, Taunton	DUP 1	0.011		BL 1	<0.0106	of May through October (season AVG).			
	BER-01	Chuckamucksett Brk. Br, Berkley St.	DUP 2	0.014		BL 2	<0.0106	NPDES permits use TP mo. avg. limits.			
May	FBR-01	Furnace Brk., River St., Raynham	DUP 1	0.044		BL 1	<0.0106	Based on observations TRWA considers			
	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	DUP 2	0.033		BL 2	<0.0106	a season AVG ≥ 0.05 mg/l is concern.			
June	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1	0.070		BL 1	<0.0106				
	ASO-01	Assonet R. Bridge, Rt 79	DUP 2	0.049		BL 2	<0.0106				
July	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	DUP 1			BL 1					
	SEG	Segregansett R. Br, Brook St. Dighton	DUP 2			BL 2					
August	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1			BL 1					
	MAT-01	Matfield R., Br, High St., Bridgewater	DUP 2			BL 2					
Sept.	COT-01	Cotley R., Middleboro Ave, Taunton	DUP 1			BL 1					
	MIL-01	Mill R., Ingell St., Taunton	DUP 2			BL 2					
Oct.	NEM-01	Nemasket R., Murdock St., Middleboro	DUP 1			BL 1					
	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	DUP 2			BL 2					

2025 TRWA Sampling Results for Enterococci (CFU/100 ml)			TARGET FOR CONCERN - GREATER THAN 35 CFU/100 ML (Class B & SB waters)							
Sample	Site No.	River & Location Description	April	May	June	July	August	Sept.	Oct.	90 Day Geo Mean July to Sept
1	TNT-01	Taunton R. Br, Center St., Berkley (SB Cr. 104)	80	50	100					
2	TNT-02	Taunton R. Br, Plain St., Taunton (SB Cr. 104)	30	90	50					
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	50	100	30					
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	100	150	80					
5	ASO-01	Assonet R. Bridge, Rt 79	10	20	60					
6	SEG	Segregansett R. Br, Brook St. Dighton	20	40	100					
7	BER-01	Chuckamucksett Brk. Br, Berkley St.	140	40	300					
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	40	10	20					
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	10	40	70					
10	TMR-03	Three Mile R. Br, Crane St., Norton	30	90	30					
11	MIL-01	Mill R., Ingell St., Taunton	40	10	90					
12	MIL-02	Mill R., Washington St., Taunton	90	10	10					
13	MIL-03	Mill R., Whittendon St., Taunton	120	10	90					
14	FORGE	Forge R. Br, Rt 44, Raynham	30	50	60					
15	COT-01	Cotley R., Middleboro Ave, Taunton	10	50	150					
16	FBR-01	Furnace Brk., River St., Raynham	30	30	20					
17	CHU-01	Taunton River Br, Church St., Raynham	90	30	40					
18	TWH-01	Town R., Br, Hayward St., Bridgewater	50	50	90					
19	MAT-01	Matfield R., Br, High St., Bridgewater	200	80	50					
20	NEM-01	Nemasket R., Murdock St., Middleboro	30	10	50					
		Duplicate and Blank Locations by Month		Duplicate Results	Blank Results		** Geometric Mean for any 90 days			
April	COT-01	Cotley R., Middleboro Ave, Taunton	DUP 1	10	BL 1	<10	shall not exceed 35 CFU/100ml.			
	BER-01	Chuckamucksett Brk. Br, Berkley St.	DUP 2	80	BL 2	<10	No more than 10% of all samples			
May	FBR-01	Furnace Brk., River St., Raynham	DUP 1	10	BL 1	<10	collected shall exceed 130 CFU/100ml.			
	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	DUP 2	20	BL 2	<10	Standard effective 11/12/2021.			
June	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1	30	BL 1	<10				
	ASO-01	Assonet R. Bridge, Rt 79	DUP 2	500	BL 2	<10	Results reported as 2000 were			
July	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	DUP 1		BL 1		reported as > 2000 colonies by			
	SEG	Segregansett R. Br, Brook St. Dighton	DUP 2		BL 2		Microbac Lab (max that could be			
August	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1		BL 1		measured). 2000 used to calculate			
	MAT-01	Matfield R., Br, High St., Bridgewater	DUP 2		BL 2		the geometric mean.			
Sept.	COT-01	Cotley R., Middleboro Ave, Taunton	DUP 1		BL 1					
	MIL-01	Mill R., Ingell St., Taunton	DUP 2		BL 2					
Oct.	NEM-01	Nemasket R., Murdock St., Middleboro	DUP 1		BL 1					
	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	DUP 2		BL 2					

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Sample Analysis, Collection Method - Standard Operating Procedures (SOP) and Instream Target Values									
Samples Are Analyzed by:									
Microbac, Dayville, CT					A MassDEP Certified Laboratory				
https://www.microbac.com/our-laboratories/dayville-connecticut/#services									
Samples Are Collected by Trained TRWA Volunteers Using An SOP Jointly Developed by TRWA and Veolia North America see TRWA website:									
https://savethetaunton.org/water-quality-monitoring/									
Sampling Locations Map May Be Found At:									
https://www.google.com/maps/d/edit?mid=zhnldTn8bGeU.kyo7mqjZ3YFQ&usp=sharing									
Water Quality Protection Insteam Target Values:									
Nitrate									
Water Quality Target Values for Nitrogen are expressed as <u>Total</u> Nitrogen = Nitrate + Organic Nitrogen + Ammonia + Nitrite									
Like most ennironmental groups TRWA measures only Nitrate because of its low cost (\$12 / sample) and low									
reporting level (0.05 mg/l). The MassDEP in a large number of TMDLs for estuaries has recommended <u>TN</u> values									
between 0.39 to 0.5 mg/l for estuaries <u>without eel grass</u> in good to fair condition. The Cape Cod Commission									
recommends values 0.34 to 0.39 while the Buzzards Bay Project/ Massachusetts Coastal Zone Management									
recommends 0.39 to 0.44 mg/l. After consultation with MassDEP and Rhode Island DEM (downstream state)									
EPA selected a TN target estuary value of 0.45 mg/l as a medium target for the Taunton River.									
Because Nitrate is <u>only a portion of Total Nitrogen</u> we consider Nitrate values > 0.4 mg/l high for both the tidal									
portion of the estuary below Route 24 at the Raynham/Taunton Bridge and above because of transport concerns									
to the salt waters of the estuary.									
Total Phosphorus									
The Water Quality Target Values for Total Phosphorus are 0.100 mg/l for freshwaters in free flowing streams and 0.050 mg/l									
in lakes, ponds, impoundments and streams tributary to them. These Targets are from the EPA Suggested Criteria									
for Water sometimes called the Gold Book.									
Based on obseration and photos of the shallow effluent dominated freshwaters of the watershed TRWA									
considers average TP greater than 0.05 mg/l a value for concern in addition to single month samples > 0.100 mg/l.									
Bacteria - Enterococci									
The Water Quality Target Value used for enterococci is 35 colony-forming units (CFU) per 100 ml as a geometric mean for any 90 day									
or smaller interval and no more than 10% of all samples collected within that interval shall exceed the									
statistical threshold value of 130 CFU/100ml. (Standard effective 11/12/2021).									
These targets are from the MA Water Quality Standards 314 CMR for Class B and SB waters.									