2016 TRWA Sampling Results for Dissolved Oxygen (mg/l)				TARGET FOR CONCERN - LESS THAN 5.0 MG/L (or high values during blooms)							
Sample	**Site No.**	**River & Location Description**	**March**	**April**	**May**	**June**	**July**	**August**	**Sept.**	**Oct.**	**Nov.**
1	TNT-01	Taunton R. Br, Center St., Berkley	12.3	10.05	9.54	7.05	5.9	7.44	7.3	9.01	11.6
2	TNT-02	Taunton R. Br, Plain St., Taunton	11.93	10.83	9.53	7.25	6.8	7.02	7.42	8.89	11.65
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	11.21	11.3	10.26	7.23	6.72	5.79	**19.3**	8.14	11.49
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	13	11.3	10.11	7.67	7.78	6.38	6.98	9.29	12.17
5	ASO-01	Assonet R. Bridge, Rt 79	Missing	12.17	10.55	8.95	8.27	7.67	7.93	Missing	Missing
6	SEG	Segregansett R. Br, Brook St. Dighton	13.03	10.5	9.54	7.24	6.33	5.56	Missing	9.72	11.53
7	BER-T	Chuckamucksett Brk. Br, Berkley St.	12.63	11.6	10.86	8.83	8.83	7.67	7.55	11	12.95
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	12.42	10.3	10.01	8.44	7.45	7.4	7.1	10.34	9.9
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	12.93	10.26	9.95	7.74	7.3	5.94	6.28	9.98	11.74
10	TMR-03	Three Mile R. Br, Crane St., Norton	12.67	9.87	9.69	8.08	7.86	8.82	8.06	9.91	13.28
11	MIL-01	Mill R., Ingell St., Taunton	Missing	11.1	9.98	8.33	7.72	7.24	7.7	5.25	12.16
12	MIL-02	Mill R., Washington St., Taunton	Missing	11.3	9.95	8.66	8.4	7.26	8.04	10.5	12.85
13	MIL-03	Mill R., Whittendon St., Taunton	12.42	11.25	10.02	8.88	8.55	7.43	7.68	10.55	Missing***
14	FORGE	Forge R. Br, Rt 44, Raynham	13.93	11.1	10.4	8.28	8.28	7.46	8.28	10.85	12.48
15	COT-01	Cotley R., Middleboro Ave, Taunton	14	11	10.02	6.91	6.72	5.86	6.84	10.11	12.42
16	FBR-01	Furnace Brk., River St., E. Taunton	13	11	10.4	8.76	8.55	7.88	9.16	10.43	12.96
17	TBR-01	Tomson Brk., Highstone St., E. Taunton	9.24	8.67	8.27	7.95	**3.2**	**1.23**	**2.1**	5	9.48
18	TWH-01	Town R., Br, Hayward St., Bridgewater	not started	10.11	8.27	7.02	5.41	**3.8**	**2.94**	8.31	9.62
19	MAT-01	Matfield R., Br, High St., Bridgewater	not started	10.5	9.54	7.45	7.67	6.1	6.4	9.57	11.83
				*** Missing due to road construction/closure							
20	**Duplicate Samples**										
March	BER-T	Chuckamucksett Brk. Br, Berkley St.	13.01								
April	ASO-01	Assonet R. Bridge, Rt 79		12.2							
May	FORGE	Forge R. Br, Rt 44, Raynham			10.3						
June	TNT-02	Taunton R. Br, Plain St., Taunton				7.25					
July	TNT-01	Taunton R. Br, Center St., Berkley					5.87				
August	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater						5.78			
Sept.	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater							6.91		
Oct.	MAT-01	Matfield R., Br, High St., Bridgewater								9.56	
Nov.	TWH-01	Town R., Br, Hayward St., Bridgewater									9.67

2016 TRWA Sampling Results for Total Suspended Solids (mg/l)				TARGET FOR CONCERN - Unusually High or Non-typical Values							
Sample	**Site No.**	**River & Location Description**	**March**	**April**	**May**	**June**	**July**	**August**	**Sept.**	**Oct.**	**Nov.**
1	TNT-01	Taunton R. Br, Center St., Berkley	5.5	**74.3**	2.5	8.5	11.6	**33.2**	**19**	9.25	10
2	TNT-02	Taunton R. Br, Plain St., Taunton	2	3.25	3	4	5.6	6.25	8.5	5.5	2
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	5.5	2.75	2.75	6	3.6	2.3	1	3.5	6.5
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	5.5	4	6.25	2.75	3.2	1.5	4.25	5.25	2.75
5	ASO-01	Assonet R. Bridge, Rt 79	Missing	1	1.3	3.75	2	3	5.5	Missing	Missing
6	SEG	Segregansett R. Br, Brook St. Dighton	1	1.75	3.5	3.25	5.2	**30.4**	Missing	7.8	2.25
7	BER-T	Chuckamucksett Brk. Br, Berkley St.	2.25	12.25	1	**80**	4.8	9.25	13.8	10.5	**61**
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	1	6.75	1	3.25	2	7.25	8	3	1.75
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	1.75	2	1	2.25	1	1	6	1.5	1.25
10	TMR-03	Three Mile R. Br, Crane St., Norton	1.5	2	2	1.5	4.4	1.3	1.25	1.75	1.75
11	MIL-01	Mill R., Ingell St., Taunton	**17.3**	5.75	8.5	5.75	3.2	3.75	3.25	3.25	< 1.0
12	MIL-02	Mill R., Washington St., Taunton	Missing	4.25	3.75	4.5	5.6	2.25	6.25	3.25	1
13	MIL-03	Mill R., Whittendon St., Taunton	4.5	4.75	2	1	4.8	1.25	4.75	1.75	Missing***
14	FORGE	Forge R. Br, Rt 44, Raynham	1.5	3.75	3	3.25	3.6	7.5	3.75	5.25	< 1.0
15	COT-01	Cotley R., Middleboro Ave, Taunton	6.5	1.75	1	4	1.6	6.25	3.5	2.75	1.5
16	FBR-01	Furnace Brk., River St., E. Taunton	2	2.75	4.25	3.75	5.6	9.5	2.25	4.25	1.25
17	TBR-01	Tomson Brk., Highstone St., E. Taunton	4.3	1.5	1.5	**19.3**	10	**16.5**	8	3.5	6.75
18	TWH-01	Town R., Br, Hayward St., Bridgewater	Not Started	3.25	4	2.8	4.4	4.5	1.75	2.75	3.5
19	MAT-01	Matfield R., Br, High St., Bridgewater	Not Started	5.25	4.5	3	Missing	2.75	1.5	5.75	2
				*** Missing due to road construction/closure							
20	**Duplicate Samples**										
March	BER-T	Chuckamucksett Brk. Br, Berkley St.	1.25								
April	ASO-01	Assonet R. Bridge, Rt 79		1.25							
May	FORGE	Forge R. Br, Rt 44, Raynham			3						
June	TNT-02	Taunton R. Br, Plain St., Taunton				3.25					
July	TNT-01	Taunton R. Br, Center St., Berkley					13.6				
August	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater						3.5			
Sept.	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater							1.75		
Oct.	MAT-01	Matfield R., Br, High St., Bridgewater								5	
Nov.	TWH-01	Town R., Br, Hayward St., Bridgewater									3.5

2016 TRWA Sampling Results for pH				TARGET FOR CONCERN - Outside Range 6.5 through 8.3 or 0.5 units from natural							
Sample	**Site No.**	**River & Location Description**	**March**	**April**	**May**	**June**	**July**	**August**	**Sept.***	**Oct.***	**Nov.**
1	TNT-01	Taunton R. Br, Center St., Berkley	5	4	5	5	5	7	7.3	6.93	6
2	TNT-02	Taunton R. Br, Plain St., Taunton	5	4	5	6	5	7	7.28	7.05	6
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	5.5	5.5	Missing	6	6	7	7.07	6.76	6
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	5.5	5.5	5.5	6.5	6	6	7.32	**3.68**	6
5	ASO-01	Assonet R. Bridge, Rt 79	4.5	5	5.5	5.5	5.5	5.5	6.56	Missing	Missing
6	SEG	Segregansett R. Br, Brook St. Dighton	5	5	5	5	5	6	Missing	6.29	5
7	BER-T	Chuckamucksett Brk. Br, Berkley St.	4.5	5.5	5	5.5	5.5	5.5	6.73	**2.08**	**4**
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	5	6	Missing	6	5	7	6.94	6.63	5
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	5	Missing	5	5	5	6.5	7.15	6.74	Missing
10	TMR-03	Three Mile R. Br, Crane St., Norton	5	Missing	5	5	5	6	7.09	6.89	Missing
11	MIL-01	Mill R., Ingell St., Taunton	5	5	5	5	5	6	7.29	6.63	5
12	MIL-02	Mill R., Washington St., Taunton	Missing	5	5	5	5	5	7.09	6.74	5
13	MIL-03	Mill R., Whittendon St., Taunton	5	5	5	5	5	6	7.08	6.89	Missing***
14	FORGE	Forge R. Br, Rt 44, Raynham	6.5	6	5.5	6	6	6	7.2	6.72	6
15	COT-01	Cotley R., Middleboro Ave, Taunton	6.5	5.5	6	6	6	6	6.89	6.05	6
16	FBR-01	Furnace Brk., River St., E. Taunton	5	5	5	5	5	5	7.04	6.86	5
17	TBR-01	Tomson Brk., Highstone St., E. Taunton	5	5	5	5	5	5.5	6.26	6.2	6
18	TWH-01	Town R., Br, Hayward St., Bridgewater	not started	Missing	Missing	6	6	6.5	6.52	**4.01**	6
19	MAT-01	Matfield R., Br, High St., Bridgewater	not started	5	Missing	7	6.5	6	7.42	5.63	6
				* Sept. and Oct. analysis from Veolia Taunton lab using a calibrated pH meter							
20	**Duplicate Samples**			*** Missing due to road construction/closure							
March	BER-T	Chuckamucksett Brk. Br, Berkley St.	1.25								
April	ASO-01	Assonet R. Bridge, Rt 79		5							
May	FORGE	Forge R. Br, Rt 44, Raynham			5.5						
June	TNT-02	Taunton R. Br, Plain St., Taunton				5.5					
July	TNT-01	Taunton R. Br, Center St., Berkley					Missing				
August	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater						7			
Sept.	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater							7.36		
Oct.	MAT-01	Matfield R., Br, High St., Bridgewater								5.54	
Nov.	TWH-01	Town R., Br, Hayward St., Bridgewater									Missing

2016 TRWA Sampling Results for Temperature (Degrees C)				TARGET FOR CONCERN - Greater Than 28.3 C							
Sample	**Site No.**	**River & Location Description**	**March**	**April**	**May**	**June**	**July**	**August**	**Sept.**	**Oct.**	**Nov.**
1	TNT-01	Taunton R. Br, Center St., Berkley	15.5	16.7	15.4	20.7	19.7	24.1	20.3	15	9
2	TNT-02	Taunton R. Br, Plain St., Taunton	16.4	16.4	15.8	21	19.8	23.9	20.9	14	8
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	15.5	16.2	15.8	20.2	19.1	24.2	20.9	6	8
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	15.7	16.9	14.6	19.8	18.7	24.1	19.2	12	6
5	ASO-01	Assonet R. Bridge, Rt 79	Missing	16.9	16.5	20.5	19.2	23.5	21	Missing	Missing
6	SEG	Segregansett R. Br, Brook St. Dighton	14.6	16.8	15.6	20.1	18.7	23.9	Missing	13	7
7	BER-T	Chuckamucksett Brk. Br, Berkley St.	14.8	16.1	15.3	19.6	18.1	23.4	19.3	12	8
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	16.2	16.7	15.2	20.5	19.1	24.2	20.4	11	7
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	14.8	16.4	15.2	20.6	18.4	21.9	19.8	9	7
10	TMR-03	Three Mile R. Br, Crane St., Norton	15	16.8	14.7	20.2	18.5	22.5	19.2	10	5
11	MIL-01	Mill R., Ingell St., Taunton	17.2	16.6	16	20.7	19.1	24.9	20.7	13	7
12	MIL-02	Mill R., Washington St., Taunton	Missing	16.2	16.1	20.6	18.7	23.8	19.5	12	8
13	MIL-03	Mill R., Whittendon St., Taunton	16.3	16.1	15.9	20.7	19.3	24	19.6	13	Missing***
14	FORGE	Forge R. Br, Rt 44, Raynham	13.1	16.9	14.7	20.1	20.1	22.7	18.2	10	4
15	COT-01	Cotley R., Middleboro Ave, Taunton	12.1	16.3	14.5	19.9	18.5	23.7	19.1	10	4
16	FBR-01	Furnace Brk., River St., E. Taunton	15.8	16.5	14.6	19.9	18.3	22.5	18.8	11	6
17	TBR-01	Tomson Brk., Highstone St., E. Taunton	17.2	17.1	15.1	20.5	16.6	22.3	19.6	8	3
18	TWH-01	Town R., Br, Hayward St., Bridgewater	not started	16.9	16.3	21.3	19.9	23.7	20.8	9	4
19	MAT-01	Matfield R., Br, High St., Bridgewater	not started	17.3	15.2	20.3	18.8	23.6	19.5	12.6	4
				*** Missing due to road construction/closure							
20	**Duplicate Samples**										
March	BER-T	Chuckamucksett Brk. Br, Berkley St.	14.8								
April	ASO-01	Assonet R. Bridge, Rt 79		16.4							
May	FORGE	Forge R. Br, Rt 44, Raynham			15						
June	TNT-02	Taunton R. Br, Plain St., Taunton				21.2					
July	TNT-01	Taunton R. Br, Center St., Berkley					20				
August	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater						24.3			
Sept.	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater							19.4		
Oct.	MAT-01	Matfield R., Br, High St., Bridgewater								12.5	
Nov.	TWH-01	Town R., Br, Hayward St., Bridgewater									Missing

Sample Analysis, Collection Method - Standard Operating Procedures (SOP) and Instream Target Values

Samples Are Analyized by:

Veolia Taunton WWTF Lab — An EPA and MassDEP NPDES Regulated Facility Laboratory

http://www.veolianorthamerica.com/en/taunton-mass

Samples Are Collected by Trained TRWA Volunteers Using An SOP Jointly Developed by TRWA and Veolia North America

http://savethetaunton.org/wp/wp-content/uploads/2016/04/TRWA_Sampling_SOP_3-15-2016.pdf

Sampling Locations Map May Be Found At:

https://www.google.com/maps/d/edit?mid=zhnIdTn8bGeU.kyo7mjqZ3YFQ&usp=sharing

Water Quality Protection **Insteam Target Values**:

Dissolved Oxygen (DO)

Water Quality Target Value for Dissolved Oxygen is DO greater than 5.0 mg/l to meet Massachusetts Class B and SB Water Quality Standards for warm water freshwater fisheries and SB marine waters.

Total Suspended Solids (TSS)

Total Suspended Solids (TSS) is a measure of particulates in the water. There is no Water Quality Standard for TSS. We are looking for unusually high values that may indicate an erosion or poor stormwater management problem upstream. High levels of TSS can smother aquatic life and destroy benthic habitat.

pH

The Water Quality Standard for pH in class B waters is 6.5 through 8.3 and not more than 0.5 units outside the natural range. Wetlands, swamps, bogs, pine forest tend to have natural low pH. The field pH strips are primarily to identify extremes of pH such as that caused by a spill of industrial waste. For the September and October Veolia Taunton analized pH using a calibrated meter.

Temperature (Degrees C)

The Water Quality Standard for Temperature in class B waters is that it shall not exceed 28.3 C.