

Board of Sewer Commissioners Meeting Agenda



<u>Date</u> September 27, 2022 <u>Time</u> 7:00 PM

Location
Bourne Community Center
239 Main St., Buzzards Bay
Or virtually (see information below)

Note this meeting is being televised, streamed or recorded by Bourne TV. If anyone in the audience is recording or videotaping, they need to acknowledge such at this time.

Zoom Meeting ID: 830 2376 5902

Password: SEWER

All items within the meeting agenda are subject to deliberation and vote(s) by the Board of Sewer Commissioners.

7:00 P.M. Call Public Session to Order in Open Session

- 1. Moment of Silence to recognize our Troops and our public safety personnel
- 2. Salute to the Flag
- 3. Vision: Bourne is a proud community that embraces change while respecting the rich heritage of the town and its villages. It is a municipality based on strong fiscal government with a durable economy that recognizes the rights of all citizens, respects the environment, especially the coastal areas of the community and the amenities that it affords. Bourne embraces excellent education, and offers to citizens a healthy, active lifestyle.
- 4. Mission: Bourne will maximize opportunities for social and economic development while retaining an attractive, sustainable and secure coastline and environment for the enjoyment of residents and visitors. Through responsible and professional leadership and in partnership with others, Bourne will strive to improve the quality of life for all residents living and working in the larger community.
- 5. Public Comment on Non-Agenda Items: Public comments are allowed for up to a total of 12 minutes at the beginning of each meeting. Each speaker is limited to 3 minutes for comment. Based on past practice, members of the Board are not allowed to comment or respond.
- 6. Board of Sewer Commissioners Business
 - a. Abatement request for 21F Nautical Way in Hideaway
 - b. Wastewater Treatment Facility status update from Building Committee
 - i. Noise complaint
 - ii. Drainage/runoff concerns
 - iii. Continuation of committee, outstanding project balance, next steps
 - c. Sewer allocation updates
 - d. FY23 budget amendments for the October 24, 2022 Town Meeting Article 3

7. Minutes: 08/09/22; 08/30/22

- 8. Future Agenda Items
- 9. Town Administrator Report
 TMDL request to DEP
 CWMP upcoming schedule & tasks
- 10. Committee Reports
- 11. Correspondence
- 12. Adjourn

TOWN CLERK BOURNE

Hello my name is Janine Giambarresi and I am requesting an abatement for the property at 21f Nautical Way, Bourne, MA 02532. my house was demolished on August 10 of 2020 so I have not used any Sewerage since. I believe I was granted an abatement for last year and I would much appreciate getting one for this year as well. thank you for your time if you have any questions or need any additional information please give me a call at the consideration.
email me at sincerely Janine Giambarresi Thank you again for your time and consideration sincerely Janine Giambarresi



PL-22-259

Plumbing Permit

Status: Active

Date Created: Sep 2, 2022

Applicant

Janine Giambarresi



Primary Location

749 Head of the Bay Road Unit 21F Nautical Way Unit 21F Nautical Way Buzzards Bay, MA 02532

Owner:

Janine Giambarresi 21F nautical Way Bourne, ma 02532

Project Info

Type of Work to be Completed

shower valve, toilet, bathroom faucet, clothes washer, kitchen faucet 3 outdoor hosebibs

Project Cost (Do not include the dollar symbol [\$].)

3,682

Occupancy Type

Residential

Type of Work

New

Work to Start

09/09/2022

Is this project in conjunction with a Building Permit?

Yes

Building Permit #

B-20-247

Estimated Cost of Work Associated with Building Permit (Do not include the dollar symbol [\$].)

85,000

Is this a Condo/Townhall/Apartment?

No

Primary Contractor

Plumber's Name **Business Name** Michael Zagami Zagami Plumbing & Heating License # **License Expiration Date** 18233 05/01/2024 License Type Type of Business Journeyman Plumber Sole Proprietor Corporation/Partnership/LLC License # **Mailing Address** City State Mass Zip Code **Email Address** Preferred Phone # Alternate Phone # **License Active** 8 I hereby certify that all of the details and information I have submitted regarding this application are true and accurate to the best of my knowledge and that all plumbing work and installations performed under the permit issued for this application will be in compliance with all pertinent provisions of the Massachusetts State Plumbing Code and Chapter 142 of the General Laws. 8 **Fixtures**

Number of Bathtubs

0

Number of Cross Connection Devices

0

Number of Dedicated Special Waste Systems

Location of Dedicated Special Waste Systems

Number of Dedicated Gas/Oil/Sand System

Location of Dedicated Gas/Oil/Sand System

0

Number of Dedicated Grease System

Location of Dedicated Grease System

Location of Cross Connection Devices

Location of Bathtubs

0

0

0

Number of Dedicated Gray Water System	Location of Dedicated Gray Water System
Number of Dedicated Water Recycle System	
Location of Dedicated Water Recycle System ()	
Number of Drinking Fountains	Location of Drinking Fountains
Number of Dishwashers	Location of Dishwashers 1st floor
Number of Food Disposers	Location of Food Disposers
Number of Floor/Area Drain	Location of Floor/Area Drain
Number of Interceptor (Interior)	Location of Interceptor (Interior)
Number of Kitchen Sinks	Location of Kitchen Sinks 1st floor
Number of Lavatories	Location of Lavatories 1st floor
Number of Roof Drains	Location of Roof Drains
Number of Shower Stalls	Location of Shower Stalls 1st floor
Number of Service/Mop Sink	Location of Service/Mop Sink O
Number of Toilets	Location of Toilets 1st floor
Number of Urinals	Location of Urinals O
Number of Washing Machine Connections	Location of Washing Machine Connections 1st floor
Number of Water Heaters (All Types)	Location of Water Heaters (All Types) 1st floor
Number of Water Piping	Location of Water Piping 1st floor

Number of Other Fixtures	Please Specify
Location of Other Fixtures	Total Number of Fixtures
Is this in conjunction with a gas permit? Yes	
Liability Insurance	
I have a current liability insurance or its substantial equiva- No	lent which meets the requirements of MGL Ch. 142.
Insurance not required ☑	
Please explain why.	
Owner's Insurance Waiver	
I am aware that the licensee does not have the insurance of General Laws, and that my signature on this permit applica ✓	
I am the	Name
Owner	Janine Giambarresi
Phone Number	
Washand Orange and the large and Affid with	
Workers' Compensation Insurance Affidavit	
Are you an employer? Select from the options below. I am a sole proprietor or partnership and have no employed.	yees working for me in any capacity.

Workers' Compensation Affidavit Signature

I do hereby certify that under the pains and penalties of perjury that the information provided above is true and correct

 \mathbf{V}

Attachments



ins waiver.pdf

Uploaded by Janine Giambarresi on Sep 2, 2022 at 6:13 pm

pdf license copy.pdf

Uploaded by Janine Giambarresi on Sep 2, 2022 at 6:13 pm

pdf workmans comp affidavit.pdf

Uploaded by Janine Giambarresi on Sep 2, 2022 at 6:14 pm

History

Date	Activity
Aug 31, 2022 at 11:15 am	Janine Giambarresi started a draft of Record PL-22-259
Sep 1, 2022 at 6:00 pm	Janine Giambarresi altered Record PL-22-259, changed ownerCity from "" to "Bourne"
Sep 1, 2022 at 6:00 pm	Janine Giambarresi altered Record PL-22-259, changed ownerEmail from "" to
Sep 1, 2022 at 6:00 pm	Janine Giambarresi altered Record PL-22-259, changed ownerName from "" to "Janine Giambarresi"
Sep 1, 2022 at 6:00 pm	Janine Giambarresi altered Record PL-22-259, changed ownerPhoneNo from "" to
Sep 1, 2022 at 6:00 pm	Janine Giambarresi altered Record PL-22-259, changed ownerPostalCode from "" to "02532"
Sep 1, 2022 at 6:00 pm	Janine Giambarresi altered Record PL-22-259, changed ownerState from "" to "ma"
Sep 1, 2022 at 6:00 pm	Janine Giambarresi altered Record PL-22-259, changed ownerStreetName from "" to "nautical Way"
Sep 1, 2022 at 6:00 pm	Janine Giambarresi altered Record PL-22-259, changed ownerStreetNo from "" to "21F"
Sep 1, 2022 at 6:00 pm	Janine Giambarresi altered Record PL-22-259, changed ownerUnit from "" to "21F"
Sep 2, 2022 at 6:14 pm	Janine Giambarresi added attachment workmans comp affidavit.pdf to Record PL-22-259
Sep 2, 2022 at 6:14 pm	Janine Giambarresi submitted Record PL-22-259
Sep 2, 2022 at 6:14 pm	approval step Inspector Reviewwas assigned to Mike Golden on Record PL-22-259
Sep 7, 2022 at 8:36 am	Mike Golden approved approval step Inspector Review on Record PL-22-259
Sep 8, 2022 at 9:48 am	completed payment step Permit Fee on Record PL-22-259

Timeline

Label		Status	Activated	Completed	Assignee	Due Date
~	Inspector Review	Complete	Sep 2, 2022 at 6:14 pm	Sep 7, 2022 at 8:36 am	Mike Golden	-
0	Permit Fee	Paid	Sep 7, 2022 at 8:36 am	Sep 8, 2022 at 9:48 am	-	
	Permit Issuance	Issued	Sep 8, 2022 at 9:48 am	Sep 8, 2022 at 9:48 am	-	-
	Inspection	Active	Sep 8, 2022 at 9:48 am	-	-	-



Town of Bourne, MA **Building Department** OFFICE OF THE PLUMBING/GAS FITTING INSPECTOR

PLUMBING PERMIT

PL-22-259

Date:

September 8, 2022

Fee:

\$\$120.00

Permission is granted to:

To perform the following work:

Michael Zagami of Zagami Plumbing & Heating

shower valve, toilet, bathroom faucet, clothes washer, kitchen faucet 3 outdoor hosebibs

Job Site Address:

749 Head of the Bay Road

MBL:

Owner:

Janine Giambarresi

Subject to submitted application, plans, and specifications, provided that all work shall comply with the provisions of 248 CMR Massachusetts Fuel Gas & Plumbing Code and Massachusetts General Laws Chapter 142.

Notice to the plumber/gas fitter: This is your permit, it should be kept as part of your permanent records. Do not post it on the job or discard.

PERMIT EXPIRES 1 YEAR FROM DATE OF ISSUANCE

This is an e-permit. To learn more, scan this barcode or visit bournema.viewpointcloud.com/#/records/21114



TOWN OF BOURNE

Town Administrator

24 Perry Avenue – Room 101 Buzzards Bay, MA 02532 www.townofbourne.com 508.759.0600, Ext. 1308



Timothy King, Town Administrator Email: tking@townofbourne.com

November 1, 2021

Ms. Erica Fleming Town Collector/Treasurer 24 Perry Avenue Buzzards Bay, MA 02532

Dear Ms. Fleming:

At the October 28, 2021 Board of Sewer Commissioners meeting it was voted unanimously to abate the following sewer account:

Account 21F Naution

21F Nautical Way, Buzzards Bay

Abate: \$591.50 FY22 first half sewer fee including any demand and interest penalties.

From July 1 – October 28, 2021 there is no record of any water usage due to there not being any structure on the property. The house was taken down and only a concrete foundation remains for the time being.

If you have any questions, please don't hesitate to contact our office.

Sincerely,

Timothy King

Town Administrator

cc: Assistant Town Collector/Treasurer

Town Accountant



TOWN OF BOURNE ENGINEERING DEPARTMENT

TOWN HALL 24 PERRY AVE.

BUZZARDS BAY, MA 02532

PHONE: 508-759-0600 x1345 • FAX: 508-759-8026

Email: tlydon@townofbourne.com



DATE: September 9, 2022

TO:

Board of Sewer Commissioners FROM: Tim Lydon, Engineering Technician

RE:

MEMORANDUM on Buzzards Bay Wastewater Treatment Facility (WWTF) Stormwater Issues

BOSC,

The Town has recently been made aware of a major stormwater issue at an abutter to our recent WWTF project at Queen Sewell located at 28 Colonial Road. Upon investigation by several departments, review of the construction documents, and testimony from staff and abutting residents, it has been concluded that the lack of stormwater controls at the new WWTF is a major issue.

Without going into great detail of the WWTF design planning you should be aware that no accommodations were made for stormwater besides a 4" drain pipe to facilitate the rainfall volume for a 6'x6' landing below grade at the western side of the facility. The building is 4,752 square feet (sf) in roof area and the disturbance is a total of roughly 16,000 sf. Drainage from the downspouts at the front of the building flow to the engineered parking area for the police department (PD) but I have not concurred that the WWTF stormwater runoff was considered during the PD design at this time. Other downspouts and the newly grassed area do not have any stormwater improvements to the north. This may have been the cause of property degradation for one or several abutters and has caused erosion issues with the baseball field.

In order to rectify this issue, a full review of the pre-construction conditions (this catchment area included in the PD design) should be considered when going forward to ultimately design a stormwater facility that captures the required runoff per the Massachusetts Stormwater Standards as well as the Town of Bourne Zoning Bylaws, Section 3490: Stormwater Regulations. The post-construction runoff cannot exceed the pre-construction runoff conditions. This is an important aspect of the requirements therefore requiring the Town to complete a full Stormwater Management Report, design, and construction documents in order to put this project out to bid to be completed as soon as possible.

I will be in attendance at your next regularly scheduled meeting and will be available take questions and discuss your concerns.

Sincerely,

Timothy Lydon, SIT, CFM

Bourne Engineering Department

Buzzards Bay Commercial Wastewater Summary Sheet (May 27, 2022)

OWNER	LOCATION	GPD Req'd	GPD Exist'g	\$1500 App Paid Date	Planning Board Approval Date	Preliminary Allocation Approval Date	Prelim Alloc Fee (2017)	Prelim Allocation Date Paid	Sewer Develop Charge (2006)	Operational Allocation	Comments	Previous 6 Month Review Dates
OWNER	2020 GPD Downtown Act. Us	112496	Exist g		Date	Date	(2017)	Date I alu	(2000)			
	2% Residential Reserve	6000										
Operational Allocations	270 1003140111141 1000170											
•	85-93 Main Street	13000	931	10/24/2018		10/15/2018	\$18,000.00	10/24/2019		13000	Temporary Certificate of Occupany	11/25/19, 5/25/2020, 9/8/2020, 4/27/21,
HAMPTON INN	12 Kendall Rae Place	15243	4614		3/28/2017	9/30/2014	. ,	11/11/2019	\$48,533.12	15243	Certificate of Occupancy issued in January 2020 - We need to review the Reserve Capaity in january 2023 per Policy (V.	
James McLaughlin	227 Main Street	79	40	12/31/2019	10/10/2019	1/28/2020	\$5,079.00	2/7/2020		79	Policy no longer applies as there are 4 residential units or less	
Domino's/Wareham Pizza Co	2 Bourne Bridge Appr	500	0 (unit)	9/15/2021		10/28/2021	\$2,500.00			2500		
	Total Operational GPD	147318										
Preliminary Allocations	1											
Maritime Holdings LLC/Rob	12 Wagner Way	17750		1/5/2018		6/18/2019	\$22,750.00	11/20/2019				11/25/2019, 5/25/2020, 2/1/2021, 4/27/21, 2/22/22
CALAMAR	13 Kendall Rae Place	16800			12/21/2017	9/19/2017	\$21,800.00	1/6/2020			Calamar representatives appeared at the Board of Selectmen on April 6, 2021	11/25/19, 5/25/20,4/6/21, 2/22/22
Vincent Michienzi	100 Block	26080				10/13/2015					-1000 gpd 11/25/2019 (originally 27080)	9/8/2020, 4/27/21, 2/22/22
MMA Cadet Housing	11 Buttermilk Way	7070	310	12/27/2019	N/A	1/28/2020	\$12,070.00	2/20/2020			11 Buttermilk Way was reviewed by the BOSC on Feb 23, 2021	
Bay Motor Inn	223 Main Street	11985	640	5/20/2020		7/28/2020	\$16,335.00	9/1/2020			Approval after BBWD moratorium sent letter 08.03.2020	2/1/2021, 4/27/21, 2/22/22
140 Main St LLC	140 Main St	1,160	33				\$2,660.00				Mixed use retail and residential; Planning Board Recommended WW	
340 Main St LLC	340 Main St	3095		8/19/2020	2/27/2020	8/25/2020	\$8,095.00	11/2/2020			Potential 2nd phase to include 18-24 residential units / sent letter 09.01.2020	2/1/2021, 4/27/21, 2/22/22
	Total Approved GPD	231258										
	Total Available GPD	68742		1								
Pending Applications		Requeste	d:									
CMP Development LLC	2 Kendall Rae Place	46475		2/25/2020		7/28/2020	\$0.00				Approval after BBWD moratorium sent letter 08.03.2020	10/28/2020, 4/27/21, 2/22/22

Board of Sewer Commissioners Minutes of Tuesday, August 9, 2022 Bourne Community Center 239 Main Street, Buzzards Bay

TA Marlene McCollem

Board of Sewer Commissioners

Mary Jane Mastrangelo, Chair Jared MacDonald, Vice Chair Judith Froman, Clerk Melissa Ferretti

Others: Michael Rausch, Helen Gordon, Kate Roosa, Stanley Andrews, Neil Langille, Kathy Fox Alfano, Sue Barlow, Bradshaw Lupton, Bob Dwyer, Keith Barber, and Tom Barlow.

Note this meeting is being televised, streamed or recorded by Bourne TV. All items within the meeting agenda are subject to deliberation and vote(s) by the Board of Sewer Commissioners. Michael Rausch acknowledged that he is recording the meeting. Chair Mastrangelo said that Commissioner Peter Meier will be at the meeting after the vote on the rates.

6:30 PM Call Public Session to Order in Open Session

- 1. Moment of Silence to recognize our Troops and our public safety personnel.
- 2. Salute to the Flag.
- **3. Vision:** Bourne is a proud community that embraces change while respecting the rich heritage of the town and its villages. It is a municipality based on strong fiscal government with a durable economy that recognizes the rights of all citizens, respects the environment, especially the coastal areas of the community and the amenities that it affords. Bourne embraces excellent education, and offers to citizens a healthy, active lifestyle.
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6. Board of Sewer Commissioners Business

- a. Discuss and vote on FY23 sewer user rates.
- b. CWMP Public Meeting for Phase II Alternative Analysis

6.a. Discuss and vote on FY23 sewer user rates.

Town Administrator Marlene McCollem asked that the Board of Sewer Commissioners only vote the first half of the fiscal year rates for the September bill commitment and then that number will be based on the budget voted at the May Town Meeting. There will be adjustments at the October Town Meeting that may or may not affect the rates.

Chair Mastrangelo asked if there will be an opportunity after October to get some feedback from Environmental Partners on rates and what they have been looking at. Ms. McCollem said the second half of the year will be committed in March, so she does not think they will be ready in October or November but before March it is possible, and then there can be a larger discussion on adjusting overage and other areas.

Neil Langille of Taylor's Point said that he is on the old sewerage system, and he objects to paying on two sewerage systems for the users that will never get on the new system. He said that he would like to see some sort of report done on gallonage.

Voted: Jared MacDonald moved, and Judith Froman seconded to approve the per unit sewer user fee at \$583.50 for the first half of the fiscal year.

Vote: 3-0-1. Melissa Ferretti abstained.

Chair Mastrangelo said that there are Sewer Commissioners that do not vote on the rates because if less than 10% of the population is on the sewer system then the members of the Board who are sewer users should not be voting on the rates. Both Peter Meier and Melissa Ferretti are on the sewer system, so they do not vote on the rates.

Ms. McCollem asked for permission to use the stamp on the certificate of the vote for the vote tonight and Chair Mastrangelo gave permission.

Voted: Jared MacDonald moved, and Judith Froman seconded to recess the meeting until 7:00 PM

Vote: 4-0-0.

7:00 PM Call Public Session Back to Order

Chair Mastrangelo called the meeting back to order.

6.b. CWMP - Public Meeting for Phase II - Alternative Analysis

Chair Mastrangelo said that Environmental Partners will be giving a slide presentation on the Alternatives Analysis of the Comprehensive Wastewater Management Plan. She said that the internet was knocked out earlier in the day, so the presentation will not be live streamed, although it will be recorded by Bourne Community TV.

Chair Mastrangelo also announced that Peter Meier is not able to attend the meeting, so he is excused and she said that Town Administrator Marlene McCollem is also excused.

Helen Gordon of Environmental Partners said she is the Project Manager of the Comprehensive Wastewater Management Plan (CWMP) with Bourne. She introduced Kate Roosa, who is the Senior Project Engineer on this project. She said that Ms. Roosa is responsible for putting together the text and the technology pieces. She also introduced Mark White, who is one of their Senior Scientists and Engineer at Environmental Partners.

Ms. Gordon said that the workshop goals are to provide a technology review for nitrogen reduction in the watersheds, review education criteria and discuss recommended technologies for each watershed. Ms. Gordon said that for the past few months they have been working with the Sewer Commissioners and the Wastewater Advisory Committee to discuss all the alternatives available to reduce nitrogen.

Ms. Gordon gave an overview of what a Comprehensive Wastewater Management Plan is and said it is a 20-year living plan in four phases. She said that the Town is currently in phase 2, alternatives. She talked about the TMDLs (Total Maximum Load of Nitrogen) for Bourne. She explained the process that the group used to come up with alternatives. She said that what they are presenting tonight are concept strategies.

Judith Froman asked if the outfall will be part of the bigger-picture comparison at some point. Ms. Gordon said that it is part of the bigger-picture comparison. She said that they will be looking at regional options as part of their study.

Kathy Fox Alfano, Chair of the Wastewater Advisory Committee wanted clarification of when Ms. Gordon talks about the Buzzards Bay outfall, does she mean the Cape Cod Canal outfall? Ms. Gordon replied that yes, that is what they are talking about. Jared MacDonald said that they must be careful when they mention outfall because it can be several outfall pipes in and around Bourne.

Sue Barlow asked for clarification on the Joint Base Cape Cod relationship here. Ms. Gordon said that recently the federal government turned over, through an agreement, the operations of their wastewater system at the base to a company called Converge, which has hired a contract operations company to run the Wastewater Treatment Plant that is there now. The goal of Converge is to provide a Wastewater Treatment Facility that the abutting communities could discharge to and be customers of. Mr. MacDonald clarified that this is not an option at this time, but it is out there as a possibility in the future.

Bradshaw Lupton said that he wants to know more about the outfall pipes at Mass Maritime. Ms. Gordon said that they are not studying Mass Maritime and their discharges. She said that they do have a Wastewater Treatment Facility and they do have a permitted outfall associated with it.

Bob Dwyer of Pocasset talked about the possibility of the plant at the base and that Sandwich and Barnstable have also talked about getting their own plant. He also talked about the loadings that Ms. Gordon presented earlier, and he said that the State needs to get moving on this.

Kate Roosa started her portion of the presentation by letting all know that the presentation will be posted on the CWMP website and that they had paper copies available for all at the meeting. Ms. Roosa explained how they decided on the criteria to arrive at the technologies that are to be recommended. She talked about Innovative/Alternative (IA) Onsite Systems, Responsible Management Entities (RMEs), Stormwater Best Management Practices (BMPs), and Collection Systems. She explained what a Wastewater Treatment is and its functions and showed some

pictures and illustrations. She also explained effluent disposal. Ms. Fox Alfano asked if these sewer systems remove PFAS and other chemicals such as phosphorus, and Ms. Roosa said that for their focus on the wastewater management plan they are looking to mitigate nitrogen first and to have others be considered as a part of an add-on process. She said there are a lot of new technologies being developed currently to mitigate PFAS.

Keith Barber of the Wastewater Advisory Committee said that once this is all in place, there will be many people needed to do the work, and he was asking if the Town should hold a summit to get all the people involved in one place to have a meeting about what is to be expected over the coming months. Mr. MacDonald said that there are contractors and companies that do this, and they have the knowledge of what is needed to install the systems. Ms. Froman agrees with Mr. Barber that a summit would be good to assess the needs and to be proactive about supply and demand. Ms. Roosa said that these summits are happening in other areas to some degree already.

Ms. Roosa concluded the instructional portion of her presentation with a few reminders: they are identifying strategies for achieving the TMDL goal for each watershed, focusing on on-site and limited sewering approaches and the final plan will be in their next CWMP phase, and they are not considering the Buzzards Bay outfall.

Ms. Roosa continued the presentation by showing and talking about the two TMDL abatement watersheds – Megansett-Squeteague Harbor and Phinney's Harbor, and about how she arrived at the calculations. She said that they look at the general use systems for the calculation basis. She said that with her calculations on these harbors the nitrogen removal goals will be met.

Ms. Roosa then talked about Buttermilk Bay and said it is not a TMDL yet, but it is nitrogen impaired. She split it into two sewer alternatives. She said that with her calculations that the nitrogen removal goal will be met. Pocasset Harbor was the next watershed that Ms. Roosa talked about, and she said that the nitrogen removal goal will also be met with her calculations. Pocasset River also does not have a TMDL but does have a nitrogen removal goal and the goal will be met with her calculations at this watershed also.

Chair Mastrangelo said that Ms. Roosa's presentation has been very helpful, but it would help if gallons per day could be a part of the charts to get a better understanding of quantity. Ms. Roosa said that she does have the gallons per day information and can get it to her. There was some discussion about the sewer options not being too close to the coastline.

Tom Barlow asked Ms. Roosa if the current contracts for Buttermilk Bay sewer alternatives 1a and 1b, will meet the goals or does another 100,000-gallon plant need to be built. Ms. Roosa said that sewer alternatives 1a and 1b would require expansion of the Queen Sewall Wastewater Treatment Plant and it would require expansion of the Queen Sewall Wastewater discharge plant effluent beds.

There was some discussion about effluent concentration values, general use systems, provisional systems, hydraulic mapping, and pilot technologies. Ms. Fox Alfano asked that they redo these using the provisional systems. Ms. Roosa explained that provisional technologies are technologies that Mass DEP has approved for failing septic systems, and they are retrofit-specific items, that can be applied to existing Title 5 systems. She said that provisional technologies do not have

widespread nitrogen removal. IA general use technologies have approved nitrogen removal to 19 mg per liter. There was also some discussion about alternative 4a.

Ms. Gordon talked about the next steps. She said that the intent of tonight was to get public feedback, and she said she appreciates all who came to the meeting, and they will incorporate the feedback into their analysis. In the Fall they will meet with the Sewer Commission and the Wastewater Advisory Committee to pull together the draft recommendations that they will present at another public meeting. From that meeting, they will incorporate that feedback into their recommended plan, which will go for Town action sometime in the Spring or Fall of 2023. Ms. Gordon also reminded everyone about the various web pages that are available.

7. Adjourn

Voted: Jared MacDonald moved, and Judith Froman seconded to adjourn.

Vote: 5-0-0.

The Board of Sewer Commissioner's Meeting ended at 8:27 PM

Respectfully Submitted,

Kim Johnson, Recording Secretary

Board of Sewer Commissioners Minutes of Tuesday, August 30, 2022 Bourne Community Center 239 Main Street, Buzzards Bay

TA Marlene McCollem

Board of Sewer Commissioners

Mary Jane Mastrangelo, Chair Jared MacDonald, Vice Chair Judith Froman, Clerk Melissa Ferretti Peter Meier

Others: Michael Rausch, and Gary Maloney.

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7:00 PM Call Public Session to Order in Open Session

Chair Mastrangelo said they will be skipping items 1 through 4 because they already did them at the Board of Selectmen's meeting that was held prior to this meeting.

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6. Board of Sewer Commissioners Business

- a. 3rd Reading Draft Sewer Rules & Regulations.
- b. Request from Pocasset Water Quality Coalition for TMDL's for Pocasset Harbor, Red Brook Harbor, Hen Cove, and Pocasset River.
- c. Vote to put a placeholder article on the October 24, 2022, Town Meeting Warrant for possible budget adjustments.

6.a. 3rd Reading – Draft Sewer Rules & Regulations.

Town Administrator Marlene McCollem said that she sent out the final version of the Sewer Rules and Regulations. She thanked Maria in the Town Administrator's office for all her work as a second set of eyes on the document. Ms. McCollem said she did get some comments regarding section D-7, Grease Traps, whereas the Board of Health would not inspect these in the sewer service area.

Chair Mastrangelo said she had a few comments about the Rules and Regulations, with the first one being that the sewer abatement process gets deleted completely and if they should have something in the Rules and regulations stating that it gets done administratively. After a brief conversation, it was decided to leave it out for now. She said the second item she had was the definition of projected available capacity, and she thinks it should be removed. Ms. McCollem agreed and said that it could just lead to more confusion.

There was some discussion about the preliminary review by the Town Planner's office, and what the Town Planner will do going forward. There was also a discussion about how it will get documented.

Voted: Peter Meier moved, and Jared MacDonald seconded to approve the interim Sewer Rules and Regulations presented on August 30th, 2022, with the following amendments: 1.) include the red-lined amendments in section D-7, 2.) remove the definition of Projected Available Capacity, 3.) remove the preliminary allocation extension fee from attachment C. **Vote:** 5-0-0.

Ms. McCollem said that the Rules and Regulations will get filed with the Town Clerk and will be posted on the website. She wanted to know if she could use the Board of Selectmen's stamp on the adoption and import, and Chair Mastrangelo approved this request.

6.b. Request from Pocasset Water Quality Coalition for TMDL's for Pocasset Harbor, Red Brook Harbor, Hen Cove, and Pocasset River.

Ms. McCollem said that this request was sent to the Board of Selectmen and was included in the correspondence, and she wanted both boards to decide which Board should listen to the request. The Board of Sewer Commissioners decided to have a conversation at this meeting about the request. The Pocasset Harbor and Pocasset River watersheds encompass this whole request. Chair Mastrangelo said that there is some information from some earlier studies. She said these TMDLs would help with the Comprehensive Wastewater Management Plan (CWMP). Ms. McCollem said that the speed at which the TMDLs can be done may take some time and the request must go to DEP. Ms. Froman said that the TMDL for Buttermilk Bay should be requested at the same time.

Voted: Jared MacDonald moved, and Judith Froman seconded to direct the Town Administrator to draft a letter requesting DEP to work on TMDLs for Pocasset Harbor, Pocasset River, and the Buttermilk watersheds.

Gary Maloney wanted to know what the plan will be once they get the information. Chair Mastrangelo said that the CWMP establishes the priority for how they will address water quality issues. She said that one of her concerns is that they address a water quality issue that is of less concern than a water quality issue that is of higher concern, and the way to not do that is to know where the higher concerns are located, to make good decisions on where to spend the money and on what areas to fix first. There was a conversation about amending the CWMP as more information comes forward.

Vote: 5-0-0.

There was some discussion about the "dos and don'ts" of what can be flushed, and how to get the word out to the sewer users.

6.c. Vote to put a placeholder article on October 24th, 2022, Town Meeting Warrant for possible budget adjustments.

Ms. McCollem said that she would like the ability to come before the Sewer Commissioners prior to the Fall Town Meeting for budget adjustments for FY23. She also said that she wanted to make the Sewer Commissioners aware that in FY24 there will be a lot of debt coming online.

Voted: Judith Froman moved, and Jared MacDonald seconded to vote to put a placeholder article on the October 24th, 2022, Town Meeting Warrant for the Fiscal Year 2023 possible budget adjustments.

Vote: 5-0-0.

7. Minutes: 9/28/21; 10/28/21; 1/25/22; 5/31/22; 6/21/22; 7/19/22

Voted: Peter Meier moved, and Jared MacDonald seconded to approve the minutes of 9/28/21 as presented.

Vote: 4-0-1. Melissa Ferretti abstained.

Voted: Judith Froman moved, and Jared MacDonald seconded to approve the October 28th, 2021, minutes of the Board of Sewer Commissioners meeting.

Vote: 4-0-1. Melissa Ferretti abstained.

Voted: Judith Froman moved, and Peter Meier seconded to approve the January 25th, 2022, Board of Sewer Commissioners meeting minutes.

Vote: 4-0-1. Melissa Ferretti abstained.

Voted: Judith Froman moved, and Jared MacDonald seconded to approve the May 31st, 2022, Board of Sewer Commissioners minutes.

Vote: 5-0-0.

Voted: Judith Froman moved, and Peter Meier seconded to approve the minutes of June 21st, 2022.

Vote: 5-0-0.

Voted: Peter Meier moved, and Melissa Ferretti seconded to approve the minutes of July 19th, 2022, Board of Sewer Commissioners.

Vote: 4-0-1. Jared MacDonald abstained.

8. Future Agenda Items

Ms. Froman suggested that the Wastewater Advisory Committee membership and Chair Mastrangelo said that it will be on the agenda for a future meeting, although it will not be on the agenda for the September meeting, due to it being a heavy meeting already. Chair Mastrangelo said that updates on allocation and on the CWMP will be on the agenda for the September meeting.

9. Town Administrator Report

Ms. McCollem said that she has the Wastewater Advisory Committee membership tentatively penciled in for September 27th, along with budget adjustments for FY23 and the six-month project updates.

10. Committee Reports

None.

11. Correspondence

None.

12. Adjourn

Voted: Peter Meier moved, and Jared MacDonald seconded to adjourn.

Vote: 5-0-0.

The Board of Sewer Commissioner's Meeting ended at 7:51 PM

Respectfully Submitted,

Kim Johnson, Recording Secretary



TOWN OF BOURNE

Town Administrator

24 Perry Avenue ¥ Room 101 Buzzards Bay, MA 02532 www.townofbourne.com 508.759.0600, Ext. 1308



Marlene McCollem, Town Administrator Email: mmccollem@townofbourne.com

VIA EMAIL

September 23, 2022

Mr. Lealdon Langley
Director of the Division of Watershed Management
Massachusetts Department of Environmental Protection

Re: TMDL Establishment for Bourne Estuaries

Dear Mr. Langley:

On behalf of the Bourne Board of Sewer Commissioners I am respectfully requesting that TMDLs be established for all nitrogen sensitive watersheds, including the Pocasset Harbor, Pocasset River and Buttermilk Bay systems. Full TMDL designation will greatly assist the Town in its ongoing CWMP and watershed planning efforts. It is imperative that the Town use its limited resources in the most efficient way to guide infrastructure investment to those watersheds that are most impaired.

Furthermore, in light of the Department's potential changes to Title V of the Sanitary Code, and the proposed requirement that property owners will be responsible for upgrading private on-site systems to I/A technology, we want to ensure that the requirements are applied as fairly and equitably as possible. Without having TMDLs in place for all of Bourne's nitrogen sensitive areas, application of the new regulations will be uneven.

Please don't hesitate to contact me with questions and I look forward to hearing from you.

Sinderely.

Town Administrator

CC: Richard Carey, Director of the Watershed Planning Program

Matthew Reardon, TMDL Section Chief, WPP

SCIENCE STUDIES TO SUPPORT DEVELOPING A TMDL IN RED BROOK HARBOR

RACHEL JAKUBA, PHD, BUZZARDS BAY COALITION VICE PRESIDENT FOR BAY SCIENCE, SEPTEMBER 2022











TMDL PROCESS

- MA develops water quality standards that describe the desired water quality characteristics of different types of water bodies
- Every ~2 years MA releases a 303d impaired waters list that indicates which water bodies are not meeting designated water quality standards
- If a water body is impaired, a Total Maximum Daily Load (TMDL) must be developed *Nitrogen TMDLs developed on site-specific basis*
- Once TMDL in place, pollutions reductions/limitations enforceable

MA WATER QUALITY STANDARDS

- Class SA Waters are designated as excellent habitat for fish, other aquatic life and wildlife ... and for primary and secondary contact recreation...These waters shall have excellent aesthetic value.
- Quantitative standards
 - Dissolved oxygen shall not be less than 6.0 mg/L
 - Temperature shall not exceed 29.4 °C (85 °F)
 - pH shall be in the range of 6.5 8.5
- Qualitative standards
 - Excellent aesthetic values

DEVELOPING NITROGEN TMDLS IN BUZZARDS BAY

- Site specific analysis of impairment and needed nitrogen reductions
- Scientific reports developed for many estuaries through the Massachusetts Estuaries Project (a partnership between MassDEP and UMass Dartmouth) between 2005 – 2015
- MassDEP converted MEP reports into TMDLs
- For water bodies where MEP report not completed, MassDEP does not have a time table to complete them.

Massachusetts Estuaries Project

Linked Watershed-Embayment Model to Determine Critical Nitrogen Loading Thresholds for the Phinneys Harbor, Eel Pond and Back River System, Bourne, Massachusetts







Massachusetts Department of Environmental Protection

FINAL REPORT - MAY 2006

PARTS OF A NUTRIENT THRESHOLD STUDY

- Assessment of ecological condition
 - Benthic habitat condition (infauna and dissolved oxygen)
 - Eelgrass presence/loss
- Assessment of nitrogen load from all sources under existing conditions and at 'build-out'
 - Land-use mapping (impervious surfaces, septic systems, golf courses, cranberry bogs, etc.)
 - Inclusion of attenuation by ponds/lakes
 - Evaluation of nitrogen cycling in estuary sediments
- Assessment of how much nitrogen can be received while water quality goals are being met
 - Hydrodynamic model of how estuary is flushed by Buzzards Bay

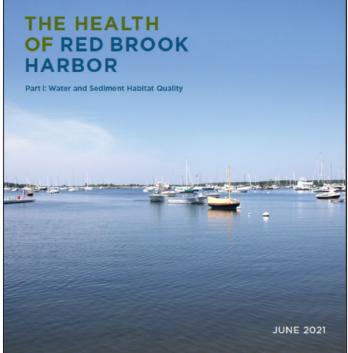
PARTS OF A NUTRIENT THRESHOLD STUDY

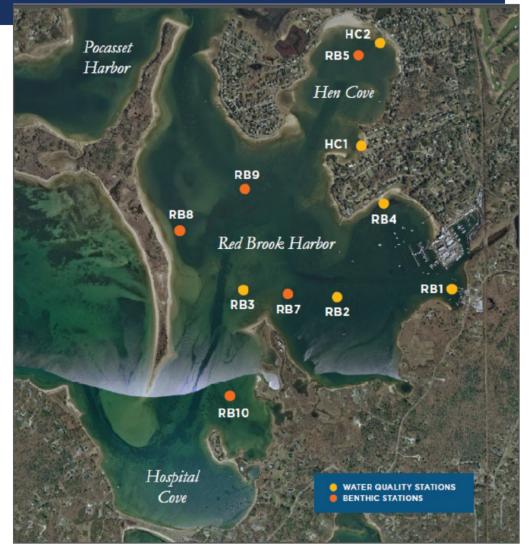
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 - Inclusion of attenuation by ponds/lakes current 604b modelling grant
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- Assessment of how much nitrogen can be received while water quality goals are being met
 - Hydrodynamic model of how estuary is flushed by Buzzards Bay current 604b modelling grant

COMPLETED 604B BENTHIC GRANT

- Partnership with Bourne, Coalition, and Mass Maritime Academy
- Reduced number of species and individuals showed the need to reduce nitrogen





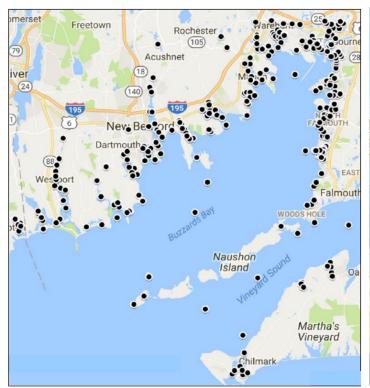


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ONGOING THROUGH BAYWATCHERS MONITORING PROGRAM

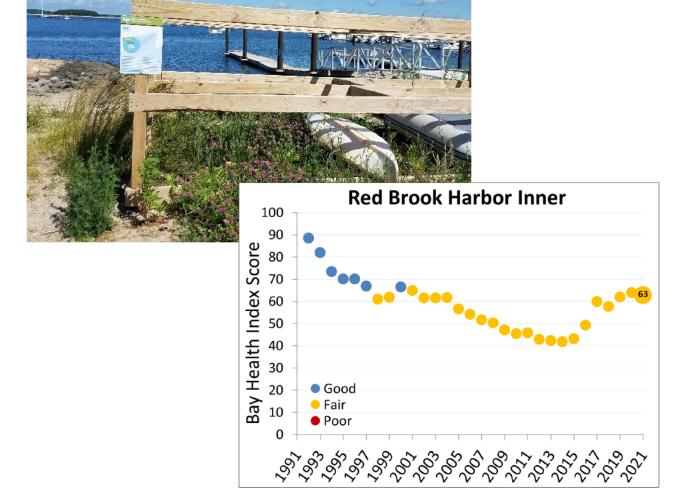
- Program initiated in 1992 to:
 - Evaluate water quality & ecological health
 - Educate citizens
- >250 stations by ~140 citizen scientists
- Dissolved oxygen, temp, salinity & water clarity every ~5 days (late May to Sep)
- Nutrient and chlorophyll 4 times (Jul & Aug), analyzed by Marine Biological Lab
- Methods approved by Environmental Protection Agency (EPA) & MA Dept of Environmental Protection (MassDEP)





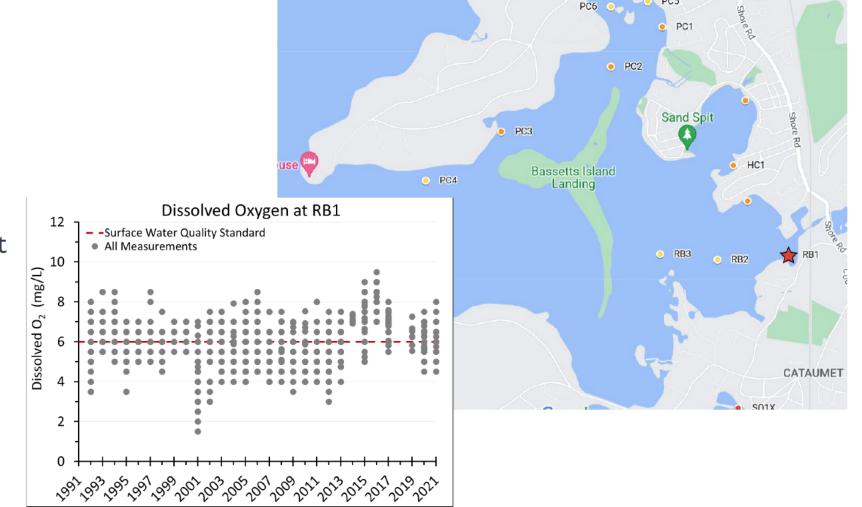
HOW DO WE USE OUR DATA?

- To ground advocacy efforts in sound science
- Give students and researchers WQ data
- Educate the community on Bay health
- Provide regulators with critical info on WQ:
 - Wastewater treatment plant discharge permits
 - Listing waters on State 303d impaired waters list
 - MA Estuaries Project reports
 - Track water quality progress



WATER QUALITY MONITORING IN RED BROOK HARBOR

- Coalition began monitoring Red Brook and Pocasset Harbors in 1992.
- Coalition submitted water quality data to MassDEP between 2006 and 2014 that resulted in Pocasset Harbor and Red Brook Harbor (including Hen Cove) being added to the Impaired Waters List.



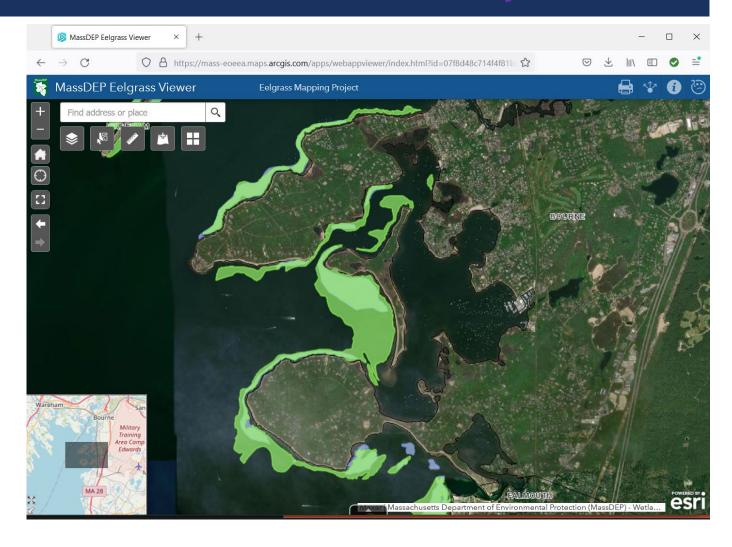
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ONGOING THROUGH MASSDEP EELGRASS MAPPING PROJECT

MassDEP Eelgrass Mapping Project has eelgrass data available for Red Brook Harbor and Pocasset Harbor from 1995 through 2017 and are working on an updated 2021 layer.



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CURRENT 604B MODELLING GRANT

- Land-use mapping (impervious surfaces, septic systems, golf courses, cranberry bogs, etc.)
 - Being performed by Joe Costa of the Buzzards Bay
 National Estuary Program
- Inclusion of attenuation by ponds/lakes
 - Using 50% attenuation rate for ponds/lakes based on previous MEP reports
- Hydrodynamic model of how estuary is flushed by Buzzards Bay
 - Being performed by Jim Churchill of the Woods Hole Oceanographic Institution



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PROPOSED 604B BENTHIC FLUX GRANT

- Grant application submitted by Town of Bourne in partnership with Coalition and the Marine Biological Laboratory
- Results should be known in late 2022