



Cape Wastewater Planning

Status of Cape Cod Towns' Wastewater Planning Efforts

Entries were written by town staff and committee members and compiled by
Waquoit Bay National Estuarine Research Reserve: Coastal Training Program
4/30/2013

Cape Wastewater Planning Workshop
April 30, 2013

This worksheet will allow participants to share information about their town, including a status update on their actions, experiences, lessons and next steps. Information shared through this worksheet will be shared with workshop participants and be made available to the public.

Your Name and Title: Dale Saad, Ph.D., DPW Senior Project Manager

Town Name: Barnstable

TOWN WASTEWATER PLANNING UPDATE

Where are you in the CWMP process? (check all that apply)

- Data collection and analysis
- Awaiting MEP results
- Joint MEPA/DRI
- Needs Assessment
- Technical Assessment
- Alternatives Screening
- Alternative Selection
- Draft EIR/DRI
- Final EIR/DRI

Provide a summary of what your town is doing with regard to wastewater planning.

Barnstable started working in the 1990s on a standard Wastewater Facility Plan which just included the Hyannis Water Pollution Control Facility and the near field area. The town noted that wastewater problems were throughout the entire town. It was decided that the Facility Planning should be comprehensive and include the entire town which was a new concept to DEP. Bacteria loading to the environment was the major concern with nitrogen loading just starting to be a noted issue. Planning moved forward with the idea that, in time, nitrogen loading would be phased into the Comprehensive Wastewater Facility Plan. Now work has started on the next phase which includes not just nitrogen but nutrient loading. The plan is also looking to be adaptive over time to include Contaminants of Emerging Concern (CEC).

A recent decision was made to focus on water as a whole vs. just wastewater which allowed the Town to see the big picture on planning into the future, changing from a Comprehensive Wastewater Management Plan to the Comprehensive Water Management Plan.

Describe your town's public education and engagement activities/plans related to wastewater issues.

A Citizens Advisory Committee (CAC) was formed with citizens from Barnstable and non-voting members from neighboring towns. Mashpee and Yarmouth have participated on the committee and it is hoped that Sandwich will participate in the future.

List the town's next steps related to wastewater planning.

Using a goal method of short term, midterm and long term goals allows the Town of Barnstable to work on the project and to see some of the goals reached along the way.

COLLABORATION

Are you collaborating with other towns on wastewater planning, education, etc.?

Yes, we are currently collaborating with other towns.

Describe any ongoing, planned, or potential collaboration with other towns.

Working with Mashpee on MOU for a shared watershed.

RESOURCES

List key documents or reports related to wastewater planning produced for the town and share website links to access these documents.

The following documents can be found at

<http://www.town.barnstable.ma.us/CitizensAdvisory/?brd=Citizen+Advisory+Committee&brdid=30&year=2013>

- CAC Documents
- CAC REPORTS
- Citizens Advisory Committee Overview
- Action Plan - Town of Barnstable Ponds
- Barnstable NMP ENF Cert w Comment Letters
- Cape Cod Water Protection Collaborative
- Comparison of Costs- Wastewater Management Systems
- Final Pathogen TMDL for the Cape Cod Watershed - August 2009
- Golledge Strategies - Cape Cod Water Protection Collaborative
- Nutrient Management Program

VIDEOS

- Barnstable Comprehensive Wastewater Management Plan MEPA Site Visits 06-04-2012
- Comprehensive Wastewater and Nutrient Management Plan Citizen Advisory Committee and Cape Cod Commission Joint Meeting 06-04-2012

List the best place to find more information on wastewater planning for the town.

<http://www.town.barnstable.ma.us/CitizensAdvisory/?brd=Citizen+Advisory+Committee&brdid=30&year=2013>

BEST PRACTICES AND LESSONS LEARNED

Describe key lessons learned from your town's wastewater planning efforts.

You can try to use all the resources possible to reach people with information about wastewater planning but you will not get their attention until the road is dug-up in front of their homes or you are hitting their wallets. There is a need to find ways to engage people in the planning and for funding.

Describe key challenges from your town's wastewater planning efforts.

Funding and people involvement for the planning project.

Describe key needs to proceed with wastewater planning in your town, excluding funding.

Citizen involvement, funding projects, basic information on treatment methods and how they are installed into existing structures.

Name of Wastewater Committee Chair: Philip Boudreau, Esq.

Telephone Number of Wastewater Committee Chair: 508-775-1085

Email Address of Wastewater Committee Chair: phil@boudreaulaw.net

Name of Wastewater Committee Co-Chair: Lindsey Counsell

Telephone Number of Wastewater Committee Co-Chair: 508-420-0780

Email Address of Wastewater Committee Co-Chair: lcounsell@3bays.org

Name of Town Wastewater Manager (i.e. planning and oversight responsibilities): Dale Saad

Telephone Number of Town Wastewater Manager: 508-790-6400

Email of Town Wastewater Manager: dale.saad@town.barnstable.ma.us

Is the town working with consultants on wastewater planning?

Yes, the town is currently working with consultants.

List consultants that the town is working with on wastewater planning.

Nate Weeks and Jeff Gregg at the Hyannis Office of GHD Inc.

Please share additional relevant information related to wastewater planning in your town.

Do not limit the issues to just wastewater planning. Think Comprehensive Water Management Planning which includes drinking water, rain water, storm water, rivers, ponds, lakes, bay, harbors, etc. It is all about WATER.

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This worksheet will allow participants to share information about their town, including a status update on their actions, experiences, lessons and next steps. Information shared through this worksheet will be shared with workshop participants and be made available to the public.

Your Name and Title: Sallie Riggs, Chair, Bourne Wastewater Advisory Committee

Town Name: Bourne

TOWN WASTEWATER PLANNING UPDATE

Where are you in the CWMP process? (check all that apply)

- Data collection and analysis
- Awaiting MEP results
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Provide a summary of what your town is doing with regard to wastewater planning.

Two studies have been completed. One divided the Town into 20 study areas and performed a wastewater management needs analysis for each. The second, and more recent, focused on Bourne's Downtown (the Village of Buzzards Bay) and makes recommendations for near-term actions. The Town is in the process of verifying some recommended potential subsurface disposal areas.

Describe your town's public education and engagement activities/plans related to wastewater issues.

We are just beginning this—we are planning a page on each of the Town's and the Bourne Financial Development Corporation's websites, as well a column in the local weekly on a regular basis.

List the town's next steps related to wastewater planning.

Hydrogeological study of potential subsurface disposal areas; public/private partnership with developer for treatment facility

COLLABORATION

Are you collaborating with other towns on wastewater planning, education, etc.?

No formal collaboration, but the Town is monitoring the planning at the Massachusetts Military Reservation (MMR) for longer-term future needs.

Describe any ongoing, planned, or potential collaboration with other towns.
See above.

RESOURCES

List key documents or reports related to wastewater planning produced for the town and share website links to access these documents.

- Tighe & Bond: Wastewater Management Study, 2007 (www.bfdconline.org)
- Commission RESET and CH2MHill: Wastewater Management Planning for Bourne's Downtown, 2012 (www.capecodcommission.org)

List the best place to find more information on wastewater planning for the town.
See above.

BEST PRACTICES AND LESSONS LEARNED

Describe key lessons learned from your town's wastewater planning efforts.
Moving appropriate planning forward requires a champion – managing wastewater capacity does not appear to be at the top of residents' and leaders' agendas.

Describe key challenges from your town's wastewater planning efforts.
Funding – funding – funding, of course related to Town residents' and leaders' agendas

Describe key needs to proceed with wastewater planning in your town, excluding funding.
Engagement of citizens and leadership (at all levels: local, regional, state, federal).

Name of Wastewater Committee Chair: Sallie Riggs
Telephone Number of Wastewater Committee Chair: 508 457-5305
Email Address of Wastewater Committee Chair: sriggs@bfdconline.org

Name of Wastewater Committee Co-Chair: n/a
Telephone Number of Wastewater Committee Co-Chair:
Email Address of Wastewater Committee Co-Chair:

Name of Town Wastewater Manager (i.e. planning and oversight responsibilities): George Tribou, Sewer Inspector
Telephone Number of Town Wastewater Manager: 508-759-0615 x337
Email of Town Wastewater Manager: jcrowley@eastham-ma.gov

Is the town working with consultants on wastewater planning?
In the past, not now.

List consultants that the town is working with on wastewater planning.
See above reports.

Cape Wastewater Planning Workshop
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This worksheet will allow participants to share information about their town, including a status update on their actions, experiences, lessons and next steps. Information shared through this worksheet will be shared with workshop participants and be made available to the public.

Your Name and Title: Susan Leven AICP, Town Planner

Town Name: Brewster

TOWN WASTEWATER PLANNING UPDATE

Where are you in the CWMP process? (check all that apply)

- Data collection and analysis
- Awaiting MEP results
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Provide a summary of what your town is doing with regard to wastewater planning.

The Town of Brewster is preparing an Integrated Water Resources Management Plan (IWRMP), to address wastewater, stormwater, surface water and water supply issues. We feel that using the IWRMP instead of the Comprehensive Wastewater Management Plan (CWMP) also helps to engage the community in a broader range of topics, all aimed at improving the overall health of water in the town.

Describe your town's public education and engagement activities/plans related to wastewater issues.

The Town of Brewster has promoted public education and civic engagement in a number of ways, including:

1. Holding periodic community meetings to provide updates on the progress of our work and to answer questions from the public.
2. Our consultant has created a website for the project that includes project information, links to relevant reports, and copies of presentations. There is a link to the site off of the Town of Brewster website.
3. Keeping an e-mail list of over 100 people from Brewster and neighboring towns to be able to provide people with information on upcoming meetings, new reports, updates to the project website, etc.
4. The Comprehensive Water Planning Committee has taken a table at the Lower Cape Expo for the last two years. This gives us the opportunity to meet and talk with people from Brewster and surrounding communities about the work being done, and also to provide

information regarding items such as lawn care, disposal of hazardous materials, and stormwater. Attendees can also sign up for our mailing list.

5. The Committee also has a presence at Brewster Conservation Day, with information available to attendees, as well as an opportunity to sign up for our mailing list.

List the town's next steps related to wastewater planning.

We are just starting our alternatives analysis for nitrogen and phosphorus mitigation and development of rapid assessment method for determining pond issues.

COLLABORATION

Are you collaborating with other towns on wastewater planning, education, etc.?

Brewster is in early discussions with Orleans and Harwich and has worked with Harwich in the past on the alum treatment for Long Pond.

Describe any ongoing, planned, or potential collaboration with other towns.

Now that the Town of Brewster has a clearer idea of our needs moving forward, we are in a better position to discuss regional opportunities with surrounding towns. We have started conversations with Orleans and Harwich, and plan to contact Dennis in the near future. Possible collaborations include phosphorus remediation in shared ponds and use of treatment plant capacity.

RESOURCES

List key documents or reports related to wastewater planning produced for the town and share website links to access these documents.

All documents are available through Brewster's water planning project website. The website can be reached through a link on the lower right of the Town of Brewster homepage (www.town.brewster.ma.us). The direct website address is:
<http://www.horsleywitten.com/brewster|WRMP/>

List the best place to find more information on wastewater planning for the town.

See note above regarding link to project site.

BEST PRACTICES AND LESSONS LEARNED

Describe key lessons learned from your town's wastewater planning efforts.

1. The importance of looking at the quality of existing data before relying on it to make assumptions/decisions.
2. Speak plain English to the public as much as possible.
3. Talk to your neighbors (neighboring towns).
4. Be accessible to the public.

Describe key challenges from your town's wastewater planning efforts.

1. Working DEP to develop remediation strategies.
2. Not having a clear picture of what the Cape Cod Commission will be doing over the next year and how that might impact the Town's work and plans.
3. Not having a lot of money.

Describe key needs to proceed with wastewater planning in your town, excluding funding.

1. More confidence in the town's ability to pay for whatever comes next.
2. Need to reach as many people as possible to prevent 11th hour "surprises."

Name of Comprehensive Water Planning Committee Chair: Lemuel Skidmore

Telephone Number of Comprehensive Water Planning Committee Chair: 508-896-3701x1233

Email Address of Comprehensive Water Planning Committee Chair:

sleven@town.brewster.ma.us

Name of Comprehensive Water Planning Committee Vice Chair: Pat Hughes

Telephone Number of Comprehensive Water Planning Committee Co-Chair: 508-896-3701x1233

Email Address of Comprehensive Water Planning Committee Co-Chair:

sleven@town.brewster.ma.us

Name of Town Comprehensive Water Planning Manager (i.e. planning and oversight responsibilities): Susan Leven AICP

Telephone Number of Town Comprehensive Water Planning Manager: 508-896-3701 x1150

Email of Town Comprehensive Water Planning Manager: sleven@town.brewster.ma.us

Is the town working with consultants on wastewater planning?

Yes

List consultants that the town is working with on wastewater planning.

Horsley Witten Group

Cape Wastewater Planning Workshop
April 30, 2013

This worksheet will allow participants to share information about their town, including a status update on their actions, experiences, lessons and next steps. Information shared through this worksheet will be shared with workshop participants and be made available to the public.

Your Name and Title: Robert Duncanson, Ph.D., Director of Health & Environment and CWMP Program Manager

Town Name: Chatham

Section I: TOWN WASTEWATER PLANNING UPDATE

Where are you in the CWMP process? (check all that apply)

- Data collection and analysis
 - Awaiting MEP results
 - Joint MEPA/DRI
 - Needs Assessment
 - Technical Assessment
 - Alternatives Screening
 - Alternative Selection
 - Draft EIR/DRI
 - Final EIR/DRI
- Other: CWMP completed in 2009, currently in implementation phase

Provide a summary of what your town is doing with regard to wastewater planning.

Chatham has had a wastewater treatment facility and collection system serving the downtown area since 1970. In 1987 the town entered into an Administrative Consent Order with MassDEP relative to the then existing treated water recharge site. There were several Facility Plan updates in the 1980's-1990's that failed for lack of public support resulting in the ACO. In 1997 the town embarked on a new effort to develop a Comprehensive Wastewater Management Plan (CWMP). This planning effort was designed to address the shortcomings of earlier efforts. The new CWMP was to have a significant public involvement component from the beginning, significant environmental/estuarine science was to be integrated into the plan, and the plan was to have a focus on nutrient removal, as opposed to the facilities plan updates of the past. Chatham was the first community in the Massachusetts Estuaries Project (MEP) after having initiated its own water quality modeling effort as part of the CWMP. The town worked closely with the MEP and MassDEP to address, and integrate into the CWMP, multiple scientific issues as part of the planning process, including enhanced groundwater modeling/particle tracking, nitrogen impact on wetland evaluations, and evaluation of alternative treatment technologies.

The CWMP/Environmental Impact Report was completed in 2009 and received approval from both the Executive Office of Environmental Affairs and the Cape Cod Commission. Chatham began

implementation of the recommendations of the CWMP in 2010 and recently completed a new wastewater treatment facility, 5 pump stations and approximately 11 miles of new sewer mains.

Describe your town's public education and engagement activities/plans related to wastewater issues.

Chatham had a substantial public education effort from the beginning of the CWMP process. This was directly a result of shortcomings of previous wastewater planning efforts that had little public involvement and thus fell short when it came time for town meeting votes.

The CWMP effort included the formation of a Citizens Advisory Committee (CAC) even before the town issue an RFP for a consultant. Membership on the CAC was chosen geographically so that all areas of town, which have different characteristics/identities, would be represented. There were also non-voting membership given to important interest groups – Chamber of Commerce, the private Chatham Conservation Foundation, private Friends of Chatham Waterways, etc.; non-voting status was important so that decisions would be made by ordinary citizens in the best interest of the community, not due to any particular groups agenda.

The CAC was involved in all aspects of the project, working right alongside the town's technical staff and consultant. The CAC held monthly meetings, the vast majority of which were televised, held workshops and forums on specific topics/issues. Regular televised presentations were made to the Board of Selectmen at key milestones and/or decision making points. The town/CAC issued regular newsletters that were mailed to all households. Presentations were made on an ongoing basis to neighborhood associations, Garden Club, conservation groups, etc. A website was developed with all project documents, minutes, PowerPoint presentations, County documents and studies, and links to other sources of information such as MEP, MassDEP, EPA, etc.

List the town's next steps related to wastewater planning.

While Chatham has a completed CWMP we continue to monitor activities and efforts in other Cape town, the region, state and federal levels regarding new technologies, funding opportunities, science, etc. as part of our Adaptive Management Plan for adoption, where applicable.

COLLABORATION

Are you collaborating with other towns on wastewater planning, education, etc.?

Yes, we are currently collaborating with other towns.

Describe any ongoing, planned, or potential collaboration with other towns.

Chatham has been actively collaborating directly with Harwich, and with Harwich, Brewster, and Orleans through the Pleasant Bay Resource Management Alliance (PBA). The PBA is an intergovernmental group charged with protecting, restoring and preserving the natural resources and public uses of the Pleasant Bay estuary and its watershed.

Chatham and Harwich are currently actively working on two projects significant to both towns. First is the Muddy Creek Restoration Bridge Project. This project would replace an earthen embankment with undersized culverts where Route 28 passes over Muddy Creek, a tidal sub-estuary of Pleasant Bay. The undersized culverts severely restrict tidal exchange resulting in

degraded wetland resources and severely nutrient impacted water quality. By restoring a bridge at the location, one existed at the beginning of the 20th century, significant ecological and water quality improvement is expected. This could provide an opportunity for scaling back planned wastewater infrastructure in the watershed shared by both towns. The second project involves the cost/benefits to Harwich of utilizing the Chatham Water Pollution Control Facility to treat wastewater from the East Harwich area. This option is part of the recently released draft harwich CWMP.

RESOURCES

List key documents or reports related to wastewater planning produced for the town and share website links to access these documents.

The CWMP/Environmental Impact Report and other reports, studies, FAQ, technical presentations, fiscal presentations, CAC documents/minutes, etc. are available on the town's CWMP webpage at the following link: http://www.chatham-ma.gov/public_documents/ChathamMa_CWMPPlan/CWMP

List the best place to find more information on wastewater planning for the town.

The CWMP/Environmental Impact Report and other reports, studies, FAQ, technical presentations, fiscal presentations, CAC documents/minutes, etc. are available on the town's CWMP webpage at the following link: http://www.chatham-ma.gov/public_documents/ChathamMa_CWMPPlan/CWMP

BEST PRACTICES AND LESSONS LEARNED

Describe key lessons learned from your town's wastewater planning efforts.

- Education, eucation, education!
- Tell them again, and again, and again, and then once more for good measure!
- No matter how much you think you've done to get the word out and educate folks, you haven't done enough!

Describe key challenges from your town's wastewater planning efforts.

Public inattention until you start to talk dollars.

Describe key needs to proceed with wastewater planning in your town, excluding funding.

Continued evaluation/proper vetting of new technologies, methods, etc. to for wstewater managment including fair comparisions of TOTAL costs.

Name of Wastewater Committee Chair: NA - CAC was disbanded in 2010 upon completion of charge.

Telephone Number of Wastewater Committee Chair: NA

Email Address of Wastewater Committee Chair: NA

Name of Wastewater Committee Co-Chair:

Telephone Number of Wastewater Committee Co-Chair:

Email Address of Wastewater Committee Co-Chair:

Name of Town Wastewater Manager (i.e. planning and oversight responsibilities): Robert Duncanson, Ph.D.

Telephone Number of Town Wastewater Manager: 508-945-5165

Email of Town Wastewater Manager: rduncanson@chatham-ma.gov

Is the town working with consultants on wastewater planning?

Yes, the town is currently working with consultants

List consultants that the town is working with on wastewater planning.

GHD

Cape Wastewater Planning Workshop
April 30, 2013

This worksheet will allow participants to share information about their town, including a status update on their actions, experiences, lessons and next steps. Information shared through this worksheet will be shared with workshop participants and be made available to the public.

Your Name and Title: Diane T. Chamberlain, Chairman, Comprehensive Wastewater Management Task Force

Town Name: Dennis

TOWN WASTEWATER PLANNING UPDATE

Where are you in the CWMP process? (check all that apply)

- Data collection and analysis
- Awaiting MEP results
- Joint MEPA/DRI
- Needs Assessment
- Technical Assessment
- Alternatives Screening
- Alternative Selection
- Draft EIR/DRI
- Final EIR/DRI

Provide a summary of what your town is doing with regard to wastewater planning.

At the present time, we are waiting for the final 2 reports from the Mass Estuaries Project.

Describe your town's public education and engagement activities/plans related to wastewater issues.

We are in the process of re-establishing public engagement and outreach activities.

List the town's next steps related to wastewater planning.

The Comprehensive Wastewater Management Task Force continues to work on Phase II of the Town's Comprehensive Wastewater Plan. This involves ongoing extensive review of the MA DEP Bass River Report and the MA DEP Swan Pond River Report and establishing new citizen education and outreach priorities. As we wait for the MEP results for Sesuit Harbor and Chase Garden Creek, we continue to research cost effective and environmentally sound alternative wastewater solutions. We are currently in the process of seeking professional help to complete Phase II.

COLLABORATION

Are you collaborating with other towns on wastewater planning, education, etc.?

Describe any ongoing, planned, or potential collaboration with other towns.

RESOURCES

List key documents or reports related to wastewater planning produced for the town and share website links to access these documents.

List the best place to find more information on wastewater planning for the town.

BEST PRACTICES AND LESSONS LEARNED

Describe key lessons learned from your town's wastewater planning efforts.

Describe key challenges from your town's wastewater planning efforts.

Describe key needs to proceed with wastewater planning in your town, excluding funding

Name of Wastewater Committee Chair: Diane T. Chamberlain

Telephone Number of Wastewater Committee Chair: 508-760-6104 (Town Hall)

Email Address of Wastewater Committee Chair: dt_chamberlain@comcast.net

Name of Town Wastewater Manager (i.e. planning and oversight responsibilities): Terence M. Hayes, Health Director

Telephone Number of Town Wastewater Manager: 508-760-6158

Email of Town Wastewater Manager: thayes@town.dennis.ma.us

Is the town working with consultants on wastewater planning?

List consultants that the town is working with on wastewater planning.

Cape Wastewater Planning Workshop
April 30, 2013

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Your Name and Title: Jane Crowley, Health Agent

Town Name: Eastham

TOWN WASTEWATER PLANNING UPDATE

Where are you in the CWMP process? (check all that apply)

- Data collection and analysis
- Awaiting MEP results
- Joint MEPA/DRI
- X Needs Assessment
- X Technical Assessment
- X Alternatives Screening
- Alternative Selection
- Draft EIR/DRI
- Final EIR/DRI
- Other: Water Supply Plan 2013

Provide a summary of what your town is doing with regard to wastewater planning.

- Wastewater/Water Workshop Town of Eastham.
- Eastham's Wastewater Management Plan Evaluation Report June 2009 builds on the Interim Needs Assessment and Alternative Screening Analysis Report.
- The wastewater needs summary was grouped into two main areas:
 1. Human Health Needs
 2. Environmental Needs
- Priority 1: Human Health Needs are primary. The Town needs to protect public health by providing a reliable public water supply from a protected source.
- Priority 2: Environmental Health Needs involve wastewater and nitrogen management to meet projected nitrogen limits in Nauset Town Cove Estuary.
- Priority 3: Environmental Health Needs involves wastewater and nitrogen management to meet projected limits in Rock Harbor.
- Priority 4: Environmental Needs involves wastewater and phosphorus management to address water quality problems in fresh water pond system watershed.

Describe your town's public education and engagement activities/plans related to wastewater issues.

Eastham's current focus is on priority 1: Municipal Water Supply Informational Meetings have been held on the following:

- Why Water
- System Design and Installation
- Finance and Operations
- Full Story

Eastham is the only community on Cape Cod that does not have a municipal public water supply. Every lot in Eastham is served by on site wells and on site waste water systems. There are no fire hydrants.

List the town's next steps related to wastewater planning.

- Town-wide Municipal Water will be presented at May 6, 2013 Town Meeting. This requires 2/3 majority approval May 6, 2013 and majority approval on the ballot May 21, 2013.
- The costs and benefits of this project have been provided to the Community. The project cost estimate is \$114,800,000. Annual tax impact AVERAGE annual cost: \$1.47 per \$1000 of assessed value.
- Change is difficult.
- There is also a cost to doing nothing.

COLLABORATION

Are you collaborating with other towns on wastewater planning, education, etc.?

Yes, we are currently collaborating with other towns.

Describe any ongoing, planned, or potential collaboration with other towns.

Eastham and Orleans have had Joint Board of Selectmens meeting to discuss water, wastewater, and Tritown Treatment Facility.

RESOURCES

List key documents or reports related to wastewater planning produced for the town and share website links to access these documents.

- Interim Needs Assessment and Alternatives Screening Analysis Report
- Wastewater Management Planning Evaluation Report

List the best place to find more information on wastewater planning for the town.

www.eastham-ma.gov

BEST PRACTICES AND LESSONS LEARNED

Describe key lessons learned from your town's wastewater planning efforts.

Issues and challenges related to Municipal Water are the same faced in wastewater planning efforts. Gaining public support to financing these projects is difficult.

"Our hesitancy as a community is both understandable and inexcusable"

Describe key challenges from your town's wastewater planning efforts.

The key focus areas were divided into the following:

- Why Water
- System Design and Installation
- Finance and Operations

Describe key needs to proceed with wastewater planning in your town, excluding funding.

The highest priority is the public health need for municipal water

Name of Wastewater Committee Chair: Charles Harris, Water Management Committee

Telephone Number of Wastewater Committee Chair: 5082405900

Email Address of Wastewater Committee Chair: cdh80osam@yahoo.com

Name of Wastewater Committee Co-Chair:

Telephone Number of Wastewater Committee Co-Chair:

Email Address of Wastewater Committee Co-Chair:

Name of Town Wastewater Manager (i.e. planning and oversight responsibilities): Jane Crowley

Telephone Number of Town Wastewater Manager: 5082405900 ext. 229

Email of Town Wastewater Manager: jcrowley@eastham-ma.gov

Is the town working with consultants on wastewater planning?

Yes, the town is currently working with consultants.

List consultants that the town is working with on wastewater planning.

GHD Nate Weeks

Environmental Partners, Paul Gabriel and Mark White

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Your Name and Title: Gerald C Potamis P.E. Wastewater Superintendent

Town Name: Falmouth

TOWN WASTEWATER PLANNING UPDATE

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- Data collection and analysis
- Awaiting MEP results
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- Draft EIR/DRI
- Final EIR/DRI (final due Dec 2013)

Provide a summary of what your town is doing with regard to wastewater planning.

Finalizing our main CWMP with a recognition of adaptive management and a schedule that is affordable to the Town. The Town is proceeding with a number of demonstration projects and studies to determine legal and technical viability and challenges. The Town authorized 2.7 million dollars for demonstration projects, water quality studies and preliminary design of an initial sewer service area. Town meeting recently authorized final design funding for a limited sewer service area and inlet widening for Bournes Pond

Describe your town's public education and engagement activities/plans related to wastewater issues.

The Town has used many approaches to engage the public including: sewer socials, talks at local civic and social organizations, kiosk at Town Hall, public TV broadcasts of local meeting and events, specialty conferences and reorganization of wastewater planning committee to include strong advocates for alternative solutions.

List the town's next steps related to wastewater planning.

1. Town Ballot to authorize Design, Submit IUP, submit final EIR /DRI on CWMP and authorize capital funding in Spring 2014.
2. Better understand and develop draft waste water flow neutral bylaw.
3. Determine wastewater financing (0 or 2 % SRF loan, cost allocation and scheduling to minimize tax increases.

4. Undertand Regional (CCC) Wastewater /208 Guidelines implications.
5. Manage results from EPA vs CLF/BBC lawsuit.

COLLABORATION

Are you collaborating with other towns on wastewater planning, education, etc.?

Yes, we are currently collaborating with other towns and the Massachusetts Military Reservation (MMR).

Describe any ongoing, planned, or potential collaboration with other towns.

The Town has collaborated with Mashpee, MMR and other contiguous communities to MMR. We have a MOU with these Towns for possibly joint use of MMR. We attended and participated in a Mashpee Sewer Commission Meeting and have attended meetings in other Towns to discuss wastewater planning.

RESOURCES

List key documents or reports related to wastewater planning produced for the town and share website links to access these documents.

Numerous documents listed on Town web page under water quality:
<http://www.falmouthmass.us/waterq/web%20site/>

List the best place to find more information on wastewater planning for the town.

Numerous documents listed on Town web page under water quality
<http://www.falmouthmass.us/waterq/web%20site/>

BEST PRACTICES AND LESSONS LEARNED

Describe key lessons learned from your town's wastewater planning efforts.

- Keep residents and policy makers informed early and often using a variety of means.
- Obtaining funding to pursue demonstration projects on a parallel track with finalizing the CWMP.
- Hiring a local consultant to DPW and WQMC to coordinate eco-toilet demonstration projects and manage ecotoilets project.

Describe key challenges from your town's wastewater planning efforts.

- Keeping up with alternative technologies and keeping public informed in a relevant manner of science and legal requirements. The issues are complex, controversial and costly.
- Managing multiple wastewater projects and consultants and emerging CCC wastewater guidelines.
- Many are looking for silver bullet and want to delay moving forward. This appears to be the norm for Cape Cod and Falmouth.
- Discharge locations.

Describe key needs to proceed with wastewater planning in your town, excluding funding.
See above.

Name of Wastewater Committee Chair: Eric Turkington
Telephone Number of Wastewater Committee Chair: 5085404854
Email Address of Wastewater Committee Chair: eturkington@gis.net

Name of Wastewater Committee Co-Chair:
Telephone Number of Wastewater Committee Co-Chair:
Email Address of Wastewater Committee Co-Chair:

Name of Town Wastewater Manager (i.e. planning and oversight responsibilities): Gerald C Potamis
Telephone Number of Town Wastewater Manager: 508 457 2543 ext 3091
Email of Town Wastewater Manager: jpotamis@falmouthmass.us

Is the town working with consultants on wastewater planning?
Yes, the town is currently working with consultants.

List consultants that the town is working with on wastewater planning.

- GHD : lead CWMP, pre design consultant for sewers, inlet widening and upgrade and improvements to our main WWTP
- Woods Hole Group :Shellfish project
- CDMSMITH :Permeable Reactive Barrier
- Sciencewares Ecotoilet and omnibus consultant
- Wright Pierce: Oyster Pond CWMP
- Weston and Sampson :New Silver Beach WWTP and collection system (completed)
- Tighe Bond: UST and I/I in Woods Hole

Cape Wastewater Planning Workshop
April 30, 2013

This worksheet will allow participants to share information about their town, including a status update on their actions, experiences, lessons and next steps. Information shared through this worksheet will be shared with workshop participants and be made available to the public.

Your Name and Title: Larry Ballantine, Ph.D.

Town Name: Harwich

TOWN WASTEWATER PLANNING UPDATE

Where are you in the CWMP process? (check all that apply)

- Data collection and analysis
- Awaiting MEP results
- Joint MEPA/DRI
- Needs Assessment
- Technical Assessment
- Alternatives Screening
- Alternative Selection
- Draft EIR/DRI
- Final EIR/DRI

Provide a summary of what your town is doing with regard to wastewater planning.

Based on > 10 years water data, needs assessment, three MEP reports, discussions with towns which share our watersheds and public input, Harwich has prepared and submitted a draft CWMP to MEPA and Cape Cod Commission for review. A town committee is currently working on possible funding mechanisms to advise Harwich Board of Selectmen and town residents.

In order to initiate the plan to improve Harwich's pond and embayment water quality in an effective and cost effective manner, the first three phases propose joint projects with Chatham The first is to jointly fund restoration of Muddy Creek Bridge to increase tidal exchange. Next phases will also work with Chatham to utilize their treatment plant, at least in the short-term, for E. Harwich wastewater. This joint effort is financially beneficial to both towns. Later phases anticipate a treatment plant near the town landfill to handle remaining watersheds.

Public discussions continue generally focused on funding (how to attract state/federal funding), potential build-out, associated zoning issues, better control of other nitrogen sources and how technology may influence "adaptive management" to reduce potential costs in the future.

Describe your town's public education and engagement activities/plans related to wastewater issues.

Organizationally, Harwich has established three committees to drive wastewater discussions; Water Quality Task Group with primary responsibility to develop CWMP, Citizens Advisory

Committee to help provide a broad review and input into the CWMP and a Wastewater Implementation Committee to develop funding recommendations.

Harwich has held numerous public meetings many televised on Channel 18. Meeting agendas, minutes are posted on the town website. MEP reports and the draft CWMP are also posted on the town website.

List the town's next steps related to wastewater planning.

- After town-meeting appropriation, continue Muddy Creek Restoration, mitigation studies and Hinkley pond improvement studies.
- Reply to questions from interested parties, CCC and DEP on draft CWMP.
- Continue to seek funding help.

COLLABORATION

Are you collaborating with other towns on wastewater planning, education, etc.?

Yes, we are currently collaborating with other towns.

Describe any ongoing, planned, or potential collaboration with other towns.

Working with Chatham on CWMP phases 1-3. Ongoing discussions with Brewster and Dennis. Have worked with Brewster on Long Pond improvement using alum treatment.

RESOURCES

List key documents or reports related to wastewater planning produced for the town and share website links to access these documents.

Available on the Town website: www.harwichma.virtualltownhall.net

- Agendas & Minutes
- MEP reports
- draft CWMP
- Local Channel 18

List the best place to find more information on wastewater planning for the town.

www.harwichma.virtualltownhall.net

BEST PRACTICES AND LESSONS LEARNED

Describe key lessons learned from your town's wastewater planning efforts.

Involve as many people as possible in the developing plan. Make the process as transparent as possible.

Describe key challenges from your town's wastewater planning efforts.

Educating and informing residents - hard to gain interest until firm appropriations are requested at town meeting. Best scenario would be for a wide ranging discussion before then to adjust plan to inputs and/or answer question and concerns.

Describe key needs to proceed with wastewater planning in your town, excluding funding.
Aid in explaining process and technical details to public, i.e., citizen engagement.

Name of Wastewater Committee Chair: Peter deBakker
Telephone Number of Wastewater Committee Chair: 774-237-0081
Email Address of Wastewater Committee Chair: dbakker.peter@gmail.com

Name of Wastewater Committee Co-Chair:
Telephone Number of Wastewater Committee Co-Chair:
Email Address of Wastewater Committee Co-Chair:

Name of Town Wastewater Manager (i.e. planning and oversight responsibilities): Heinz Proft
Telephone Number of Town Wastewater Manager: 508-430-7532
Email of Town Wastewater Manager: hproft@town.harwich.ma.us

Is the town working with consultants on wastewater planning?
Yes, the town is currently working with consultants

List consultants that the town is working with on wastewater planning.
CDM Smith
David Young
youngDF@cdm.com

Cape Wastewater Planning Workshop
April 30, 2013

This worksheet will allow participants to share information about their town, including a status update on their actions, experiences, lessons and next steps. Information shared through this worksheet will be shared with workshop participants and be made available to the public.

Your Name and Title: Paul Gobell, Sewer Commission Administrator

Town Name: Mashpee

TOWN WASTEWATER PLANNING UPDATE

Where are you in the CWMP process? (check all that apply)

- X Data collection and analysis (Ongoing)
- X Awaiting MEP results (Waquiot Bay (main bay) is draft)
- X Joint MEPA/DRI (Ongoing)
- X Needs Assessment
- X Technical Assessment
- X Alternatives Screening
- X Alternative Selection (Ongoing)
- Draft EIR/DRI
- Final EIR/DRI

Provide a summary of what your town is doing with regard to wastewater planning.

Town's plan is watershed-based and includes areas of bordering Towns. It also addresses potential Zone II impacts of interest to the Mashpee Water District. The Town has an ongoing monitoring program for its two main bays in cooperation with the Mashpee Wampanoag Tribe. The monitoring data are reviewed by SMaST. Planning for the Town includes incorporation and possible expansion of eight privately owned Wastewater Treatment Facilities as well as new facilities. The Town is actively planning expansion of its shellfish propagation program in cooperation with the efforts of the Wampanoag tribe. Possible use of the Massachusetts Military Reserve (MMR) facility has surfaced in the last year.

Describe your town's public education and engagement activities/plans related to wastewater issues.

Town has a web page: www.Mashpeewaters.com and informational displays and materials at Town Hall and the Mashpee Library.

List the town's next steps related to wastewater planning.

Alternatives screening and selection.

COLLABORATION

Are you collaborating with other towns on wastewater planning, education, etc.?

We have jointly funded the Waquoit Bay MEP Report with the Town of Falmouth. We have previously collaborated with Barnstable and Sandwich on DEP Popponesset Bay PILOT Project. We are active on Barnstable's CAC. Barnstable, Sandwich and Falmouth members are appointed to Mashpee's CAC.

Describe any ongoing, planned, or potential collaboration with other towns.

Inter-municipal agreements (IMA) are necessary with Falmouth, Sandwich and Barnstable. A draft IMA for Popponesset Bay has been prepared and provided to Sandwich and Barnstable.

RESOURCES

List key documents or reports related to wastewater planning produced for the town and share website links to access these documents.

Needs Assessment Report
Technology Screening Report
Alternatives Scenarios Report
Draft Alternatives Screening Report
Lombardo Associates Scenario Report.

SMast/MEP reports on Popponesset Bay (final)
Waquoit Bay East(final)
Waquoit Bay System (draft)
TMDLS issued for Popponesset Bay, Waquoit Bay East.

List the best place to find more information on wastewater planning for the town.

www.mashpeewaters.com

BEST PRACTICES AND LESSONS LEARNED

Not currently operating facilities for wastewater treatment.

Describe key lessons learned from your town's wastewater planning efforts.

Watershed planning has been a long-term effort.

Describe key challenges from your town's wastewater planning efforts.

Public acceptance of infrastructure costs.

Describe key needs to proceed with wastewater planning in your town, excluding funding.

- Finalize Plan
- Agree on IMA/MOU's with other Town's and Mashpee Water District
- Acquire properties and facilities.

Name of Wastewater Committee Chair: Thomas Fudala
Telephone Number of Wastewater Committee Chair: 508 539-1400 x 8521
Email Address of Wastewater Committee Chair: tfudala@mashpeema.gov

Name of Wastewater Committee Co-Chair: No such position.

Name of Town Wastewater Manager (i.e. planning and oversight responsibilities): Paul Gobell
Telephone Number of Town Wastewater Manager: 508 539-1400 x 8598
Email of Town Wastewater Manager: pgobell@mashpeema.gov

Is the town working with consultants on wastewater planning?

Yes

List consultants that the town is working with on wastewater planning.

SMAST, GHD, Lombardo Assoc.

Please share additional relevant information related to wastewater planning in your town.

The project work was done with SRF funding

Cape Wastewater Planning Workshop
April 30, 2013

This worksheet will allow participants to share information about their town, including a status update on their actions, experiences, lessons and next steps. Information shared through this worksheet will be shared with workshop participants and be made available to the public.

Your Name and Title: Len Short, Commissioner, Orleans Water & Sewer Commission

Town Name: Orleans

TOWN WASTEWATER PLANNING UPDATE

Where are you in the CWMP process? (check all that apply)

- X Data collection and analysis
- X Awaiting MEP results
- X Joint MEPA/DRI
- X Needs Assessment
- X Technical Assessment
- X Alternatives Screening
- X Alternative Selection
- X Draft EIR/DRI
- X Final EIR/DRI

Provide a summary of what your town is doing with regard to wastewater planning.

At Town Meeting for the past 6 or 7 years the voters have voted for all warrant articles in favor of going forward with wastewater issues. We have appropriated and implemented road run-off work and the DPW has dramatically altered there lawn maintenance program with slow release organic and lesser volume fertilizers.

Several years ago when the town charter was reviewed and rewritten the authority for wastewater was assigned to the water commission, which is now the Water Sewer Commission.

Describe your town's public education and engagement activities/plans related to wastewater issues.

There have been neighborhood meetings and an educational committee set up by the Town to explain the study and the resulting CWMP.

In addition, a number of NGO's have been created to help explain wastewater to the voters. Some favoring "big pipe" and others favoring "small pipe" systems.

List the town's next steps related to wastewater planning.

In two weeks the Town meeting will vote on a number of wastewater related articles on the warrant and this will determine the direction that the Town will be heading in.

COLLABORATION

Are you collaborating with other towns on wastewater planning, education, etc.?

Yes and no. We have approached our neighboring towns but don't find them as well along in the wastewater planning process. There are members on the Orleans Pond Coalition (OPC) board for these towns in an attempt to keep the channels of communications open.

There has been a collaboration for 10 years between the Town and the OPC. OPC has sponsored a number of public meeting and published a number of booklets and information sheets on wastewater and related subjects.

Describe any ongoing, planned, or potential collaboration with other towns.

We are always hopeful and have the door open for discussions on regionalizing our efforts.

RESOURCES

List key documents or reports related to wastewater planning produced for the town and share website links to access these documents.

Blue Pages, Orleanspondcoalition.org, Orleanscan.org, Orleanswateralliance.org

BEST PRACTICES AND LESSONS LEARNED

Describe key lessons learned from your town's wastewater planning efforts.

Follow the Chatham model. Develop the plan and financing without much fanfare and then present the plan to the town and go to a vote as soon as possible.

Describe key challenges from your town's wastewater planning efforts.

Describe key needs to proceed with wastewater planning in your town, excluding funding.

Name of Wastewater Committee Chair: Gussie McKusick

Telephone Number of Wastewater Committee Chair: 508 255 8178

Email Address of Wastewater Committee Chair: gmckusick@onemain.com

Name of Wastewater Committee Co-Chair: No such position.

Name of Town Wastewater Manager (i.e. planning and oversight responsibilities):

Telephone Number of Town Wastewater Manager:

Email of Town Wastewater Manager:

Is the town working with consultants on wastewater planning?

Yes

List consultants that the town is working with on wastewater planning.

Wright-Pierce

Cape Wastewater Planning Workshop
April 30, 2013

This worksheet will allow participants to share information about their town, including a status update on their actions, experiences, lessons and next steps. Information shared through this worksheet will be shared with workshop participants and be made available to the public.

Your Name and Title: David Mason, Director of Public Health

Town Name: Sandwich

TOWN WASTEWATER PLANNING UPDATE

Where are you in the CWMP process? (check all that apply)

- Data collection and analysis
- X Awaiting MEP results
- Joint MEPA/DRI
- Needs Assessment
- Technical Assessment
- Alternatives Screening
- X Alternative Selection
- Draft EIR/DRI
- Final EIR/DRI

Provide a summary of what your town is doing with regard to wastewater planning.

The Town is currently working to develop its CWRMP. Phase I Needs Assessment, has been completed and Phase II Alternatives Analysis is nearing completion.

Describe your town's public education and engagement activities/plans related to wastewater issues.

The Town has had a number of newspaper articles, done at least three presentations on public access television and conducted a number of workshops.

List the town's next steps related to wastewater planning.

Approval of the Phase II report.

Are you collaborating with other towns on wastewater planning, education, etc.?

Not as of yet. Once the Phase II report has been approved by the Board of Selectmen, we hope to engage the neighboring Towns in discussions.

Describe any ongoing, planned, or potential collaboration with other towns.

This has not yet begun.

RESOURCES

List key documents or reports related to wastewater planning produced for the town and share website links to access these documents.

Needs Assessments Report, Interim Wastewater Report – www.sandwichcleanwater.com

List the best place to find more information on wastewater planning for the town.

www.sandwichcleanwater.com

Best Practices and Lessons Learned

Work in progress

Describe key lessons learned from your town's wastewater planning efforts.

Work in progress

Describe key challenges from your town's wastewater planning efforts.

Not having the MEP reports for the northern estuaries.

Describe key needs to proceed with wastewater planning in your town, excluding funding.

MEP reports

Name of Wastewater Committee Chair: Michael Zylich

Telephone Number of Wastewater Committee Chair: 508 888-4200

Email Address of Wastewater Committee Chair: contact via David Mason, please see below

Name of Wastewater Committee Co-Chair: None

Telephone Number of Wastewater Committee Co-Chair:

Email Address of Wastewater Committee Co-Chair:

Name of Town Wastewater Manager (i.e. planning and oversight responsibilities): David Mason

Telephone Number of Town Wastewater Manager: 508 888-4200

Email of Town Wastewater Manager: dmason@townofsandwich.net

Is the town working with consultants on wastewater planning?

Yes

List consultants that the town is working with on wastewater planning.

Wright-Pierce

Cape Wastewater Planning Workshop
April 30, 2013

This worksheet will allow participants to share information about their town, including a status update on their actions, experiences, lessons and next steps. Information shared through this worksheet will be shared with workshop participants and be made available to the public.

Your Name and Title: Kevin Kuechler, Chairman, Water Resources Oversight Committee

Town Name: Truro

TOWN WASTEWATER PLANNING UPDATE

Where are you in the CWMP process? (check all that apply)

- Data collection and analysis
- Awaiting MEP results
- Joint MEPA/DRI
- Needs Assessment
- Technical Assessment
- Alternatives Screening
- Alternative Selection
- Draft EIR/DRI
- Final EIR/DRI

Provide a summary of what your town is doing with regard to wastewater planning.

Truro currently relies heavily on enforcement of Title V as primary mechanism for regulating wastewater.

Describe your town's public education and engagement activities/plans related to wastewater issues.

- Voluntary nitrate testing of tap water: Began 5 years ago. About 50% of town has submitted at least one sample.
- MEP sampling: Three years of sample collection conducted almost entirely by Town volunteers
- CWMP: Phase 1 began one year ago. Have engaged Town through newsletters and public presentations.

List the town's next steps related to wastewater planning.

CWMP Phase 2 will begin in the Fall. This will involve more intensive interaction with the public.

COLLABORATION

Are you collaborating with other towns on wastewater planning, education, etc.?

No, we are not currently collaborating

Describe any ongoing, planned, or potential collaboration with other towns.

There will likely be some collaboration with Provincetown, since 100% of their public water comes from wells in Truro.

RESOURCES

List key documents or reports related to wastewater planning produced for the town and share website links to access these documents.

Too early -- check in with us in the Fall.

List the best place to find more information on wastewater planning for the town.

Too early -- check in with us in the Fall.

BEST PRACTICES AND LESSONS LEARNED

Describe key lessons learned from your town's wastewater planning efforts.

Describe key challenges from your town's wastewater planning efforts.

Describe key needs to proceed with wastewater planning in your town, excluding funding (e.g. more information on alternative nitrogen management strategies, citizen engagement, etc).

Name of Wastewater Committee Chair: Kevin Kuechler

Telephone Number of Wastewater Committee Chair: 617 827-0297

Email Address of Wastewater Committee Chair: kkuechler@comcast.net

Name of Wastewater Committee Co-Chair:

Telephone Number of Wastewater Committee Co-Chair:

Email Address of Wastewater Committee Co-Chair:

Name of Town Wastewater Manager (i.e. planning and oversight responsibilities): Pat Pajeron

Telephone Number of Town Wastewater Manager: 508 349-7004

Email of Town Wastewater Manager: healthag@truro-ma.gov

Is the town working with consultants on wastewater planning?

Yes, the town is currently working with consultants

List consultants that the town is working with on wastewater planning.

Weston & Sampson

Cape Wastewater Planning Workshop
April 30, 2013

This worksheet will allow participants to share information about their town, including a status update on their actions, experiences, lessons and next steps. Information shared through this worksheet will be shared with workshop participants and be made available to the public.

Your Name and Title: Ned Hitchcock, Wellfleet Comprehensive Wastewater Planning Committee

Town Name: Wellfleet

TOWN WASTEWATER PLANNING UPDATE

Where are you in the CWMP process? (check all that apply)

- Data collection and analysis
- Awaiting MEP results
- Joint MEPA/DRI
- Needs Assessment
- Technical Assessment
- Alternatives Screening
- Alternative Selection
- Draft EIR/DRI
- Final EIR/DRI

Provide a summary of what your town is doing with regard to wastewater planning.

The committee is focused on ensuring the best water quality possible at the lowest possible cost. We are moving toward fulfilling all the requirements for a genuinely comprehensive plan. We have completed, with the help of our consultants the Environmental Partners Group, the Interim Needs Assessment and Alternatives Analysis Report and await our MEP report.

It the meantime we have moved forward with efforts to remediate water quality in the harbor area. These include the Oyster Propagation Project, which is an area in the Marina with compromised water quality in which a two acre area has been set aside, heavily cultched, and currently closed to any shellfish harvesting. Monitoring and evaluation of improvement of water quality continues and is being studied by the Provincetown Center for Coastal Studies and faculty and students from UMass Boston. Further, there is the Mayo Creek Restoration Project. This would reopen a former salt-water marsh and allow better flushing and consequent reduction of both pollutants and nutrients. Finally, at our Town Meeting this week, the Town approved a project to install composting toilets at Baker Field, a town area devoted to playing fields, a beach, skateboard park and other recreational features. Baker Field backs up to Mayo Creek and faces the harbor across Mayo Beach.

We also actively support the Herring River Restoration project, which is a joint effort of Wellfleet, Truro and the Cape Cod National Seashore.

Describe your town's public education and engagement activities/plans related to wastewater issues.

We have conducted over 16 formal public events over the past 3 years including many forums related to planning the various projects, involving local news outlets regularly, publishing a septic best practices brochure which has been widely circulated throughout the town and sponsored a documentary event at WHAT Theatre. The seaclam shell and oyster shell recycling program sponsored by the committee and the Town recycling committee, recently won an award for Municipal Innovation from MassRecycle, and our consultants (EPG) won a national engineering award for their work on the oyster reef project.

List the town's next steps related to wastewater planning.

We await the long overdue MEP.

COLLABORATION

Are you collaborating with other towns on wastewater planning, education, etc.?

We have many collaborators, among them are Barnstable County and the Extension Service, UMass Boston, Provincetown Center for Coastal Studies, NOAA, USDA, SPAT/Wellfleet Oysterfest and the Mass Oyster Project.

We have had informal discussions with Eastham. The Town, through the Herring River Project, also works with Truro, although there is relatively little concern about the shared areas of the watershed.

Describe any ongoing, planned, or potential collaboration with other towns.

Nothing formal is planned at this time. When we get the MEP, we will be able to determine with whom and how much we need to plan.

RESOURCES

List key documents or reports related to wastewater planning produced for the town and share website links to access these documents.

Powerpoint Overview:

http://www.wellfleetma.org/Public_Documents/wellfleetMA_webdocs/WCWMC%20Integrated%20Plan.pdf

Interim Plan:

http://www.wellfleetma.org/Public_Documents/wellfleetMA_webdocs/Wellfleet%20CWMP%20Draft%20Interim%20report_08%2007%2012.pdf

Plan Appendices:

http://www.wellfleetma.org/Public_Documents/wellfleetMA_webdocs/InterimReportFINAL_June20%202012_Appendices.pdf

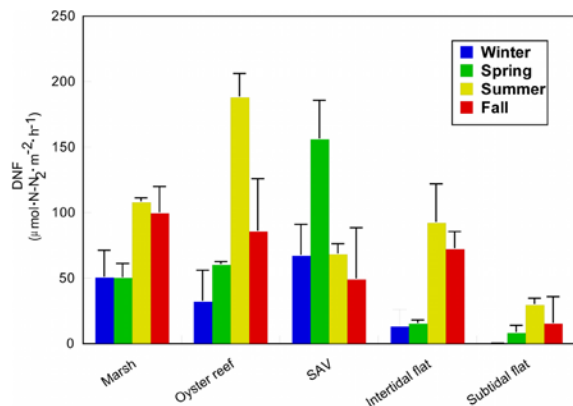
Public Hearing Comments:

http://www.wellfleetma.org/Public_Documents/wellfleetMA_webdocs/Wellfleet%208.20.12%20Public%20Meeting%20Summary%20and%20Comments_FINAL.pdf

List the best place to find more information on wastewater planning for the town.

Extensive Bibliography in Wellfleet Public library (over 300 references). Cites 1,3,4, 9 & 10 contain extensive references of their own and provide excellent summaries of some of the most recent work within the field.

- 1) Oysters as a TMDL Best Management Practice Lynnhaven River(VIMS/Army Corps)2011
- 2) Valiela et al., Salt Marsh Denitrification 1978
- 3) Merrill/Cornwell, Role of Oligohaline Marshes in Estuarine Nutrient Cycling 2002
- 4) Siemas Fierra, Nutrient Enrichment and the Role of Salt Marsh 2007
- 5) Ernest Ingersoll, The Oyster Industry, National Dept of Fish and Wildlife 1882
- 6) Cloern, Does Benthos control Phytoplankton in San Francisco Bay 1982
- 7) Economic Impacts of Mass Restoration Projects, MADER 2012
- 8) Dibble et al., Economic Value of Estuarine Fish and Shellfish (NOAA) 2008
- 9) Peters, Grabowski et al. Estimated Enhancement of Fish Production from Oyster Reef Restoration 2003
- 10) Beck et al. The Identification, Conservation and Management of Estuarine Marine Nurseries for Fish and Invertebrates 2001
- 11) Beck et al. Oyster Reefs At Risk Recommendations for Conservation, Restoration and Management (NOAA/TNC) 2011
- 12) Piehler Smyth, Denitrification of Alternatives and Replacement cost of N 2011



Best Practices and Lessons Learned

- Be polite to authorities.
- Be active in community outreach and use a variety of resources.

Describe key lessons learned from your town's wastewater planning efforts.

Costs of green remediation alternatives are quite low relative to brown alternatives, provide immediate environmental improvement and seem to be receiving positive public support.

Describe key challenges from your town's wastewater planning efforts.

To qualifying our nutrient removal processes and obtain regulatory acceptance of the alternatives we have developed.

Describe key needs to proceed with wastewater planning in your town, excluding funding
Additional time and support to further qualify alternatives for performance, cost and transferability.

Name of Wastewater Committee Chair: Alex Hay

Telephone Number of Wastewater Committee Chair:

Email Address of Wastewater Committee Chair: alex@macsseafood.com

Name of Wastewater Committee Co-Chair: Curt Felix

Telephone Number of Wastewater Committee Co-Chair:

Email Address of Wastewater Committee Co-Chair: cfelix@planktonpower.net

Name of Town Wastewater Manager (i.e. planning and oversight responsibilities): Hillary Greenberg-Lemos

Telephone Number of Town Wastewater Manager: 508-349-0308

Email of Town Wastewater Manager:

Is the town working with consultants on wastewater planning?

Yes

List consultants that the town is working with on wastewater planning.

Environmental Partners, Center for Coastal Studies, UMass Boston

Cape Wastewater Planning Workshop
April 30, 2013

This worksheet will allow participants to share information about their town, including a status update on their actions, experiences, lessons and next steps. Information shared through this worksheet will be shared with workshop participants and be made available to the public.

Your Name and Title: George R. Allaire, P.E. Director of Public Works

Town Name: Yarmouth

TOWN WASTEWATER PLANNING UPDATE

Where are you in the CWMP process? (check all that apply)

- Data collection and analysis
- Awaiting MEP results
- Joint MEPA/DRI
- Needs Assessment
- Technical Assessment (except Bass River)
- Alternatives Screening
- Alternative Selection
- Draft EIR/DRI
- Final EIR/DRI

Provide a summary of what your town is doing with regard to wastewater planning.

With pressure building on local businesses along Route 28 by MA DEP during request for septic system repairs to install wastewater treatment facilities the town began a formal wastewater planning effort in 2003. The formal planning effort allowed DEP to allow businesses to place fund in escrow for the eventual wastewater solution developed thru the planning effort. A formal Integrated Water Resources Planning Committee was appointed and a consultant selection process undertaken wherein CDM (now CDM-Smith) was chosen as the wastewater consultant. A needs assessment was completed based on traditional methods such as high water tables, soils, lot size etc., while we gathered samples in the estuaries and awaited the MEP reports for Lewis Bay, Parkers River and Bass River.

Wastewater collection technologies were explored such gravity, low pressure and vacuum systems and a hybrid collection system using all 3 were chose as the collection/conveyance means. Wastewater treatment technologies were reviewed and considering the substantial flow variations between summer and winter months, a sequencing batch reactor was the chosen as the treatment technology. The committee meetings were recorded and televised, to engage and inform the public on wastewater matters. Annual town meeting appropriated funds for these planning efforts over several years totaling over \$400,000.

Following 5 years of planning, the Town meeting approved the cost of borrowing \$3.1 million for the design and permitting of phase 1 of the collection/conveyance and treatment plant including disposal on April 8, 2008 annual town meeting. Town meeting was also advised, during the

permitting and design funding discussion that a subsequent funding measure of approximately \$49 million would follow in 2 years for the actual construction of phase 1 of the wastewater system. This design/permitting borrowing measure was also approved at the subsequent ballot, so some town support was evident. We began the design and permitting process and got to 90% plans and joint review by the Cape Cod Commission and the MEPA office of our Comprehensive Wastewater Management Plan (CWMP). The Board of Selectmen approved the plan (3-2), as they were motivated by the possible 0% interest loan from the DEP. The Selectmen appointed a Wastewater Implementation Committee, consisting of environmental committee persons and business leaders, to conduct more public outreach with excellent public attendance. While most public response acknowledged the need for wastewater improvements, most felt they could not afford the solution.

MEPA approved the CWMP plan with conditions and we went to Special Town meeting in September 11, 2011 seeking \$55 million to actually build the first phase of 5 phases of the collection and treatment system. The proposal was to pay for the cost via taxes and assessments with a total cost of \$300 million. The cost of assessments would be spread out over 20 years and the 5 phases would take 25 years to complete. The collection and treatment did not include the Bass River area as the MEP report was received late in the process.

The resounding vote at the special Town meeting said **NO!** At which point all planning stopped on this matter including completion of the CWMP approval thru the CC Commission.

RESOURCES

Executive Summary Yarmouth Wastewater Plan

<http://www.yarmouth.ma.us/DocumentCenter/Home/View/1663>

Index page for other wastewater documents: Frequently asked Questions, cost calculation per household, plans etc. <http://ma-yarmouth.civicplus.com/index.aspx?nid=519>

Name of Wastewater Committee Chair: none active

Name of Wastewater Committee Co-Chair: none active

Name of Town Wastewater Manager (i.e. staff person with planning and oversight responsibilities): George R. Allaire

Telephone Number of Town Wastewater Manager: 508-398-2231 ext 1291

Email of Town Wastewater Manager:

Is the town working with consultants on wastewater planning?

No

List consultants that the town is working with on wastewater planning.