

COMMONWEALTH OF MASSACHUSETTS

Barnstable, ss.

At the regular meeting of the County Commissioners held in the Barnstable County Superior Court House on the twenty-seventh day of May, A.D. 2015.

Board of the Barnstable County Commissioners:

Chair Sheila Lyons	Present
Vice Chair Mary Pat Flynn	Present
Commissioner Leo Cakounes	Present

Staff Present:

Michael Brillhart	County Administrator
Michelle LaCasse	On-call Finance Assistant
Bob Lawton	Interim Finance Director
Tom Cambareri	CCC Watershed Management Director
Scott Michaud	CCC Hydrologist
Angela Hurwitz	B.C. IT Department Contractor
William Clark	Director of Cooperative Extension
Maggie Downey	Cape Light Compact Administrator

List of Documents:

- Weekly Actions taken by the County Administrator dated May 15-22nd
- Containments of Emerging Concern in Water Supply dated May 27, 2015 presented by Tom Cambareri, Cape Cod Commission. This document will be available on the Barnstable County Meeting Center Web page.

Chair Lyons called the meeting to order at 1:01 p.m.

The Commissioners recited the Pledge of Allegiance followed by a Moment of Silence.

I. Public Comment

Chair Lyons asked if there is any public comment to which no public comment was made.

II. Discussion and Potential Vote Regarding the Transfer of Funds for the Aquaculture Research Corp (ARC) Conservation - Town of Dennis Project

Michael Brillhart, County Administrator, explained the ARC project was approved as a capital improvement for FY16 bond issuance and that the County is working with the Town of Dennis on a grant agreement to get the funding in place. He asked Cooperative Extension Director Bill Clark to give an update on the status of the grant.

Bill Clark noted the state would like to close before June 30th, therefore in FY15.

Bob Lawton, Interim Finance Director, explained the Town of Dennis agreement states the County will distribute funds in the second week of July and the agreement will not impede the proposed state June 30th closing. He explained the state wishes to expend in FY15; however, our funding is in FY16. He commented that the Town of Dennis is able to wait a few weeks in to July for the funds.

Bill Clark pointed out the other pending matter is to approve both the Conservation Restriction and Purchase & Sale, which he said Bob Troy has approved and will have final documents by the end of the week.

Commissioner Cakounes suggested having approval of both the P&S and Conservation Restriction on the agenda next week and to send both documents to the Assembly of Delegates for approval. He further suggested this timing would allow for the documents to be handed to the Assembly of Delegates on June 3rd giving ample time for posting a meeting and voting by June 17th. Additionally, Commissioner Cakounes suggested scheduling a Commissioners meeting on June 17th at 5:00pm to finalize documents after the Assembly meeting.

III. Presentation by the IT Department on the Results of the Satisfaction Survey by Angela Hurwitz, IT Department

Due to technical difficulties, the IT department presentation was tabled until the next meeting.

Angela Hurwitz gave a quick background of the survey and mentioned the Department Satisfaction Survey was originally sent out in 2012 and scored high remarks. She added that the survey was sent out again this year to compare the established categories and to also add additional categories.

Recess taken at 1:15p.m., reconvened at 1:20p.m.

Due to technical difficulties it was decided to table the presentation for the next Commissioners meeting.

IV. Update on the Water Quality Monitoring at the Fire & Rescue Training Academy by Tom Cambareri, Cape Cod Commission (CCC)

Tom Cambareri of the CCC presented a PowerPoint "Contaminants of Emerging Concern in Water Supplies - Barnstable County Response", dated May 27, 2015, which will be available on the Barnstable County meeting center web page.

Mr. Cambareri explained his presentation today is on water quality as it relates to Perfluorinated compounds and the Fire Training Academy and noted the results will go beyond the Fire Training Academy to an overall county response.

He listed the talking points of his presentation as follows:

- Fire Training Academy Cleanup History
- Perfluorinated Compounds
- Hydrogeologic Assessment Findings
- Public supply impacts of PFC and 1-4 Dioxane
- Recommendations

Mr. Cambareri displayed an aerial photo of BC Fire Academy in the 1970's showing the building and the pits. He explained the pits used for training were ignited with oil and extinguished with a variety of material and agents. He pointed out Flint Rock Pond and then showed a map of the property in the 1980's and last a current map of the property.

Referring to a Cape Cod Times article from July 10, 1986 titled "Ground water tainted by fire training fuel," Mr. Cambareri explained the study and cleanup of the spill. He talked about the site in relation to down gradient water supply with water flow east to west.

His next slide showed monitoring wells put in the early 1990's and a plume of petroleum compounds. He pointed out the extent of the contamination. In 1993, he noted the state of MA adopted a contingency plan about rules, regulations and laws for cleanup and that cleanup at the site had been done according to the state plan along with MA DEP regulations and oversight; therefore, he noted a highly regulated approach was used at the time.

Mr. Cambareri further explained that during clean up in 1993 it was also found that Cape Cod Potato Chips was responsible for a chloroform contamination plume. He explained the County worked with a firm Wesson & Sampson on a dual containment treatment system, which won an American Society Civil Engineers award in 1994. Mr. Cambareri noted the plumes were cleaned up, although noting that petroleum is known to leave residual soil contamination; therefore, it has been monitored quarterly since 1990 until 2 years when monitoring changed to semi-annually monitoring.

Next Mr. Cambareri explained in 2002, a plume of MTEB from an old car in the area was found and cleaned using existing wells. He then referred to a perchlorate plume found in 2007, which the Commissioners at the time appropriated \$275,000 to pump and treat the plume, which impacted 2 Mary Dunn well fields. He indicated new pump systems were designed in conjunction with the structure in place at the time.

Commissioner Cakounes asked where the perchlorate came from to which Tom explained it was from use of marine and road flares that the fire academy had collected as a central Cape location, which were then used to ignite straw on fire.

Mr. Cambareri continued his presentation and explained a slide titled "Hydrogeological cross section showing perchlorate in the groundwater (ppb) Jan. 29, 2007." He showed pictures of the wells used in cleanup and also pictures of new Siemens technology that was used at the time.

Mr. Cambareri moved on to explain Silent Spring Institute and their work done in conjunction with the CCC in 2009 in testing water supplies. He noted 20 wells were sampled and contaminants of emerging concern (CEC's) were found, which would include contaminants from antibiotics, sweeteners, personal care items, pharmaceuticals and PFOS/PFOA that do not breakdown. He noted that PFOS/PFOA's have health concerns and this testing was the first indication that this may be a concern cape wide and also nationwide. Mr. Cambareri showed a slide from the Society of American Military Engineers that listed manufacturing products that PFOA and PFOS can be found in from diverse manufacturing processes, making surface treatments, and making performance chemicals. Examples of such item include carpet, non-stick cookware, oil surfactants, foams, etc.

He continued with a background and overview of the Society's fire training protection and spill response. He pointed out the Society's working hypotheses that any fire training academy operable between 1970 and 2000 has a high likelihood of PFOS/PFOA contamination in the surrounding solids and groundwater. AFFF's are also used in spill response/fire prevention materials and are still used today. He reviewed the toxicity of PFC's nationally and showed a slide with PFC in Blood Serum, which he noted has been trending down overtime.

Mr. Cambareri explained in 2013 the EPA began an unregulated contaminant monitoring rule which started the assessment of CEC's nationally in water supplies. Districts serving over 10,000 were

required to submit water samples. With the first results in 2014, he indicated Silent Spring announced a high level of PFS's in Hyannis, particularly around airports, fire training areas and other land uses.

He explained the chronology of the issue from 2009 through 2014 and noted that in 2013 the UCMR data findings did not show any exceedances of health advisories and this information was shared with the Town of Barnstable. Further, Mr. Cambareri reviewed the hydrogeological assessment done for 30 wells at the cost of \$30k on Flint Rock Pond and Mary Dunn well fields, which also included an evaluation of the existing treatment systems. He indicated carbon filtration experts were hired, which was all coordinated with the Town of Barnstable and DEP.

Next, Mr. Cambareri moved to the findings of the hydrogeological assessment. He showed a map of 10 borings sites started in March 2015 and also explained they looked at pond sediments and 30 soil samples. He reported the results showed fairly high concentrations of PFO's and were detected in each of the 7 wells. He spoke of one well that was high due to use of propane and foam materials. Next, he showed a graph of the PFC's in the soil concentrations, which reported concentrations less than the EPA standard of 6.0mg/kg., with the highest found at 4.9mg/kg. However, Mr. Cambareri pointed out Groundwater Health Advisory standards are much, much lower at .002mg/l.

Next, Mr. Cambareri spoke of the pond at the academy and the PFO material found in pond sediments, soil and groundwater from runoff. He mentioned in 1998 there was a CCC advisory written suggesting installing drainage, which was never done. He then presented results from each well site.

Mr. Cambareri showed a slide of groundwater samples explaining that PFO material positively sticks to soil and also has a negative part so it stays around a long time and once in groundwater it goes with ground water flow. He referred to cleanup at the military base where these compounds can also be found and that it is now being discovered nationally, as it wasn't known until recently.

Next he showed a slide of Hydrogeologic cross section showing PFO's in groundwater and he also presented the results from groundwater sampling of PFOs from Nov. 2013 and May 2014. He pointed out results highlighted in red that indicated a higher result than the health advisory, and he further explained Mary Dunn #2 has been climbing and Mary Dunn #1 has been holding steady.

Introducing a new issue, Mr. Cambareri explained he is working with the Town of Barnstable regarding 1-4 Dioxane, which has also been found in Eastham private wells down gradient of the old Eastham landfill. He showed a slide listing uses of 1-4 Dioxane including some household materials, laundry detergent, antifreeze production, de-icing fluids, resin production, PET plastics production and photographic film recycling. He reviewed the data of 1-4 Dioxane in groundwater sampling from Nov 2013, May 2014 and March 2015 and noted where results fell below and also above reporting limits. He noted that Mary Dunn was evaluated again and results were all found below the limits. He indicated the DEP is looking at the data, which is considered low risk and explained there is not an accepted treatment for 1-4 Dioxane. Last, he indicated the Town of Barnstable, in order to limit risk, has targeted PFC well cleanup and diluting Dioxane with water from Yarmouth.

Mr. Cambareri discussed other PFOS sources including firefighting foam use at airports.

Mr. Cambareri moved on to present his recommendations including:

- Data gap assessment;
- Short term measure for groundwater capture and treatment using wells we have;
- Hot spot treatment;
- Evaluate source removal and in-situ treatment; and
- Continue to work with DEP and Town of Barnstable

He estimated FY15 costs at \$15,000 for the data gap assessment and then reviewed the FY16 issues including:

- Groundwater capture and treatment
- Hot spot treatment;
- Operation and maintenance;
- Monitoring and Assessment;
- Soil Treatment Pilot;
- Storm water management;
- Barnstable negotiations; and
- Lab capabilities for PFC's (negotiated a \$250 rate per sample with outside labs and need to evaluate if we can do onsite.)

Chair Lyons asked the commissioners and audience if there are any questions.

Commissioner Cakounes asked for the depth of contamination in plumes on Slide #9 to which Tom answered are at 30 ft. into water table.

Commissioner Cakounes asked if testing has been done on the academy site from the other side of the pond up gradient, such as the soil

and groundwater at the airport, and suggested it could be feeding the pond. Mr. Cambareri responded he plans to test Barnstable Fire District wells, which were studied by Silent Spring in 2009 and were found not significant. He further explained part of data gap assessment will be to evaluate these conditions, which he does not believe will be a dominant part.

Commissioner Cakounes asked if there are any known old landfills in the area to which Tom responded there was an old junkyard in the airport area; however, he explained since the airport is cross gradient it would not affect the Mary Dunn wells, noting it may affect other wells such as the airport & Marr wells.

There was discussion of immediately handling the runoff into the pond at the site. Commissioner Cakounes announced the current practice of the fire academy is to not use flares, diesel fuel, and to his knowledge, foam has not been used since 2009.

The Commissioners thanked Mr. Cambareri for his extensive work on the report.

Vice Chair Flynn noted there are Town of Barnstable representatives in attendance and spoke of the need for cooperation from all parties, Town of Barnstable, County Commissioners and CCC. She suggested the need for a group of leaders from each party to plan and set the goals and to perhaps approach the state. Vice Chair Flynn asked if the Town of Barnstable Counsel in attendance would like to make a comment and it was discussed the parties need to figure out a joint effort moving forward.

Chair Lyons asked if the cost of remediating the academy property since 1986 has been totaled and if there is a cost estimate for the

future. Mr. Cambareri responded the County has spent \$760,000 (1989-present), which includes \$300k in revenue for the cleanup of the Cape Cod Chips plume. He explained he is at the beginning stage of gathering future costs estimates and is targeting short term measures and will need to decide on longer term remediation costs.

Chair Lyons asked if the Town of Barnstable plan is set for the summer to which Tom replied to his knowledge they are moving forward.

Chair Lyons asked if the public has any questions.

Seth Taylor from Chatham asked if there has been any action taken at the state level to stop using firefighting foams and whether there are any substitutes that pose less of a problem. Mr. Cambareri responded that fire commissioners are working with the state and that PFO concentration in foams has been reduced.

Seth Taylor from Chatham spoke of conflicting information regarding Flint Rock Pond and questioned if PFO's are water soluble, then what is causing them to collect in sediment and not flow out with water into down gradient. Mr. Cambareri responded that he is just beginning to look at these results and he was surprised of the high concentration level of 1.6 parts per billion found in the water and also in the sediments in Kettle Hole Ponds and that there is still more research needed.

Seth Taylor from Chatham asked for clarification on how contamination is moving out of pond water and collecting in the sediments, since the use of firefighting foam was stopped in 2009. He also stated his concern for needing to understand the dynamics and mechanism of how it's carried before solving the problem. Mr. Cambareri responded it could be concentration gradient due to the findings and explained

Moved to Executive session at 2:29p.m. and reconvened in Open Session at 2:58p.m.

Motion made by Commissioner Cakounes to approve the request of Mark Zielinski's medical leave as previous approved on Apr 29th extended to June 17th. Employee shall work two to three days a week and be allowed to use donated sick time as adapted by the commissioners on July 2014, 2nd by Vice Chair Flynn, approved 3-0-0.

V. Minutes

Motion made by Commissioner Cakounes to approve the minutes of May 6, 2015 regular meeting. 2nd by Vice Chair Flynn, approved 3-0-0.

VI. Commissioners Actions

Commissioner Cakounes asked, as a courtesy, if Cape Light Compact (CLC) approved the vacation carry over for CLC employees. Maggie Downey, Cape Light Compact Administrator said vacation carry over is approved by the Commissioners and explained a current employee's request.

Commissioner Cakounes asked for clarification on why appointments (below) are dated back to 2013 and through 2018. Michael Brillhart clarified that these appointments are continued appointments.

Motion made by Commissioner Cakounes to approve the following Summary of Actions, 2nd by Commissioner Flynn. Approved 3-0-0.

CONTRACTS

- 1) Execute the Subordination of HOME Mortgage in the amount of \$10,000.00 for Sheila Parenteau.

BID AWARDS

- 2) Award a Bid for a qualified contractor to assist the Department of Human Services in coordinating the "Massachusetts Opioid Abuse Prevention Collaborative" (MAOPC) to Jessica McHugh as the responsive, responsible bidder offering the most advantageous proposal.
- 3) Award a Bid for the Supply and Delivery of Water Chemicals for Water Departments in Barnstable County for the period of July 1, 2015 - June 30, 2016 to the following vendors as the responsive, responsible bidders offering the lowest prices: Borden & Remington Corp., Univar USA Inc., George S. Coyne Chemical Co., Inc., NBC Distributors.

PERSONNEL MATTERS

- 4) Approve the request from Stephan Wollenburg, Cape Light Compact Energy Efficiency/Power Supply Planner for unpaid vacation leave of up to 10 day, effective June 1, 2015.
- 5) Approve the request from Paul Niedzwiecki, Cape Cod Commission to carry over thirty (30) vacation days into FY16 due to work overload.
- 6) Approve the FY15 Vacation Carry Over Request for Barnstable County Employees.

APPOINTMENTS

- 7) Approve the appointment of Kathy Quatromoni as representative and Michael Trudeau as alternate to the Cape & Islands District Attorney's Office Consortia, Barnstable County Health and Human Services Advisory Council, for the term of October 17, 2013 - May 31, 2018.
- 8) Approve the appointment of Paula Schnepf as representative to the Cape & Islands Regional Network on Homelessness Consortia,

Barnstable County Health and Human Services Advisory Council,
for the term of October 17, 2013 - May 31, 2018.

- 9) Approve the appointment of Paul Melville as representative and Teriann Polumbo as alternate to the Cape Cod Family Resource Center - Family Continuity Consortia (New Consortia), Barnstable County Health and Human Services Advisory Council, for the term of October 17, 2013 - May 31, 2018.
- 10) Approve the appointment of Paul Melville as representative and Teriann Polumbo as alternate to the Cape Cod Family Resource Center - Family Continuity Consortia (New Consortia), Barnstable County Health and Human Services Advisory Council, for the term of October 17, 2013 - May 31, 2018.
- 11) Approve the appointment of Beverly Costa - Ciavola as representative to the Children's Cove Consortia, Barnstable County Health and Human Services Advisory Council, for the term of October 17, 2013 - May 31, 2018.
- 12) Approve the appointment of Brenda Vazquez as representative and Deirdre Arvidson as alternate to the Community Health Network Area 27 (CHNA 27) Consortia, Barnstable County Health and Human Services Advisory Council, for the term of October 17, 2013 - May 31, 2018.
- 13) Approve the appointment of Madeline Noon as representative and Chris Hottle as alternate to the Councils on Aging Serving Together (COAST) Consortia, Barnstable County Health and Human Services Advisory Council, for the term of October 17, 2013 - May 31, 2018.
- 14) Approve the appointment of Ellen McDonough as representative to the Elder Services of Cape Cod & Islands Consortia, Barnstable County Health and Human Services Advisory Council, for the term of October 17, 2013 - May 31, 2018.

- 15) Approve the appointment of Krystin St. Onge as representative and Joe Carleo as alternate to the Tri-County HIV/AIDS & Hepatitis C Consortium of Cape & Islands Consortia, Barnstable County Health and Human Services Advisory Council, for the term of October 17, 2013 - May 31, 2018.
- 16) Approve the appointment of Cheryl Frye - Cromwell as representative and Rita Gonsalves as alternate to the Wampanoag Tribal Health Center Consortia, Barnstable County Health and Human Services Advisory Council, for the term of October 17, 2013 - May 31, 2018.

VII. Commissioner Reports

Commissioner Cakounes requested the following items for next week's agenda:

- Language to make appointment, Fire Academy;
- Resignation letter from TICK committee Chair including a draft thank you note for her extensive work;
- Discussion of hiring temp administrator;
- Possible report from Building Needs Committee;
- Review of sick bank policy before July - future agenda; and
- ARC P&S and conservation restriction.

Commissioner Cakounes spoke of a letter received from the Bristol County Commissioners for recent use of the dredge and suggested a letter be drafted in response.

Motion to adjourn by Commissioner Cakounes, 2nd by Vice Chair Flynn,
approved 3-0-0.

Adjourned at 3:14p.m.

Respectfully submitted,
Michelle LaCasse, Finance Assistant

Attest:


County Clerk

The foregoing records have been read and approved.


Sheila R. Lyons

Chair


Mary Pat Flynn

Vice-Chair


Leo Cakounes

Commissioner