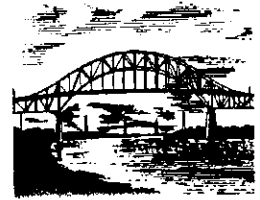


SEP 26 AM 11 48

CLERK'S OFFICE

Cynthia A. Coffin,
Health Agent

**TOWN OF BOURNE
BOARD OF HEALTH**
24 Perry Avenue
Buzzards Bay, MA 02532
Phone (508) 759-0615 x1
Fax (508) 759-0679



**MINUTES
SEPTEMBER 26, 2012**

**Members in attendance: Kathy Peterson, Chairman; Stanley Andrews, Vice-Chairman;
Don Uitti, Secretary; Galon Barlow and Carol Tinkham**

**Support Staff in attendance: Cynthia Coffin, Health Agent; Zack Seabury, Health
Inspector and Lisa Collett, Secretary**

Meeting was called to order at 7:00 P.M.

1. ISWM UPDATE – Dan Barrett – Topics for Discussion

- a. **Beneficial use determination (BUD)** – Mr. Barrett stated that the Beneficial use determination was for materials from the Barnstable Inner Harbor Dredge project. Mr. Barrett stated that the initial soils samples indicated that some of the materials exceeded regulatory limits that would allow it to be used as daily cover at any lined Massachusetts landfill. Mr. Barrett stated that in response to that situation, CLE Engineering, the consulting firm who Barnstable County is using for this project, met with the ISWM staff and agreed to assist with the submittal of a special waste application requesting disposal at the Bourne Landfill. Mr. Barrett stated that taking this material is not unusual for the landfill. Mr. Barrett stated that it is just another soil job. Mr. Barrett stated that during the review of the application, DEP, Division of Solid Waste and Water Quality stated that the material met the Mass Contingency Plan S2-GW2 criteria for use as alternative daily cover at a Massachusetts landfill as authorized through a beneficial use determination. Mr. Barrett stated that it is a long way of getting through the fact that DEP did not feel that the material was special waste. Mr. Barrett stated that the DEP just wants to look at it and write up any special conditions that may need to go with it. Mr. Barrett stated that the problem with the soil is that it had TPH (Total Petroleum Hydrocarbon) and thinks the other was Zinc. Mr. Barrett stated that it was only a very small area so DEP said it is not worth going through the special waste permit hassle. Mr. Barrett stated that the DEP decided to have them go through the Beneficial Use Determination (BUD). Mr. Barrett stated that the DEP has not yet issued its final response to the BUD but indicated that

hopefully it will next week. Mr. Barrett stated that the BUD will contain conditions for both the generator and the landfill. Mr. Barrett stated he will review the permit requirements and respond accordingly. Mr. Barrett stated that the job consists of approximately 500 cubic yards or 500 tons of material covered by the BUD with the potential for more to come if Barnstable decides not to use it to build a sound attenuation berm at their gun range. Mr. Barrett stated that the total project is 9000 cubic yards. Mr. Barrett stated that 4500 of it got to go out to off shore disposal. Mr. Barrett stated that the other 4000 was determined to be usable uplift. Mr. Barrett stated that no one wants to pay to dispose of it at a landfill so they may reuse it on their gun range. Mr. Barrett stated that this 500 tons needs to be used at a landfill for daily cover. Mr. Barrett stated that the reason DEP wanted to have a BUD determination is because it's silty and wet and they want to make sure it is not going to get tracked all over and make a mess at the landfill. Mr. Barrett stated that the reason he is bringing it up is because Ms. Coffin was notified from DEP about special waste. Ms. Coffin stated that she believes that is what it was. Mr. Barrett stated that then the special waste was retracted by DEP. Mr. Barrett stated that he knew it would be, so he did not make a big deal about it. Mr. Barrett stated that the engineering firm chose the right route and took it. Mr. Barrett stated that he agreed with them and told them the landfill would help them out. Mr. Barrett stated that the material is scheduled to come into the landfill around February through April. Mr. Barrett stated he will be looking for some dirt at that point so that is really the only interest for the landfill. Mr. Barrett stated that the thing about dredge jobs is that they take a lot of time for the landfill. Mr. Barrett stated that he can go out into the street and get soils pretty quickly at reasonable rates. Mr. Barrett stated that the Town of Barnstable contacted him and asked if he could help out. Ms. Coffin asked if the state will require additional testing. Mr. Barrett stated that the State has already completed the additional testing. Mr. Barrett stated that this dredge project generated water quality paperwork which is pretty thick. Ms. Peterson asked if anyone had any questions on this particular discussion. Mr. Andrews asked how the materials will be brought into the landfill. Mr. Barrett stated that it will be trucked. Mr. Andrews asked if the materials will be wet. Mr. Barrett stated that yes all dredge projects are wet. Mr. Andrews asked if it will be in sealed containers so there are no worries about the material dripping on the way. Mr. Barrett stated that a couple of contractors have already contacted him asking about the project. Ms. Coffin asked if the trucks are lined. Mr. Barrett stated that there will be plastic liners like in gravel trailers. Mr. Andrews asked how Mr. Barrett will handle the material once it arrives. Mr. Barrett stated depending on where he is at, at that point, he will probably mix it with auto shredded residue or ash and use it on the face as daily cover. Ms. Tinkham asked if the town is addressing the hot spot. Mr. Barrett stated that was correct. Mr. Toomey, from the Pollution Task Force, asked if there was still going to be a wash or rinse station for the vehicles to go through. Mr. Barrett stated that yes, if it is needed. Mr. Toomey stated that there may be materials on the tires and asked if they should be washed. Mr. Barrett

stated no. Ms. Peterson stated that the truck wash spoken about before is for a completely different project, which was for the ash. Mr. Barrett stated that the DEP has not responded to the beneficial use yet and Barnstable has not decided what they want to do yet. Mr. Barrett stated that this is all preliminary and just wanted the board members to be aware.

- b. **Phase IV Liner Project** - Mr. Barrett stated that the Phase IV Liner is complete. Mr. Barrett stated that he submitted an application for an authorization to operate (the ATO permit) and received the approved permit on September 18, 2012. Mr. Barrett stated that he has not yet entered into the new construction of the roads and ramps and they are also in the process of bringing 2A and 3A up to final grade to accommodate the final cap project. Mr. Barrett stated that he anticipates being in Phase IV in the middle of October, 2012. Mr. Barrett stated that he was very happy to receive the permit as quickly as he did. Mr. Barrett stated that the new scales are hooked up and operating. Mr. Barrett stated that the electricity has been connected to the new scale house. Mr. Barrett stated that they will begin using the new facility on Monday, October 1, 2012. Mr. Barrett stated that E.T.L. will be back on site to tear out the old scale and finish up their punch list and hopefully finish up the paving and the rest of the project by November 1, 2012. Mr. Andrews asked if it was correct to state that by the 1st of November there will be new roads, new gates etc. Mr. Barrett stated that everything will be done by October 31, 2012. Mr. Barrett stated that it does depend on weather. There is quite a bit of paving left to be done but that should go quickly. Ms. Coffin stated that she has had some complaints about odors in the morning. Mr. Barrett stated that the odors recently are due to a header failure and a valve failure. Mr. Barrett stated that he found the problem and fixed it but there was probably a 3 day period where he was trying to figure it out. Mr. Barrett stated that the good news is that the section of the header will be replaced as part of the final cap project. Mr. Andrews asked when the new generator will come in. Mr. Barrett stated in the spring 2013. Mr. Barrett stated that the new flare is going to be ordered this fall.
- c. **ISWM request to temporarily move C & D Transfer** – Mr. Barrett stated in August 2012 the deflector shield at the load out bay at the C & D Transfer station failed. Mr. Barrett stated that it became loose after 3 years of steady use and needed repair. Mr. Barrett stated that he planned on this work being done during the winter of 2013 when C & D volumes are at the lowest. Mr. Barrett stated that given the low volume at that time of year he would have been able to do the repair without having to shut down the station. Mr. Barrett stated that the shield was worn to a point where it had to be repaired. Mr. Barrett stated that he decided to ask the DEP for permission to conduct transfer operations outdoors for a period of 5 days. Mr. Barrett stated that in his request he cited the Town's four years of experience with this type of operation prior to opening the transfer station. Mr. Barrett stated that he submitted the request on October 30 and the DEP granted the request in a letter dated September 14. Mr. Barrett stated that he began operations on September 18, 2012 and reopened the station completely with upgrades and

repairs on Tuesday, September 25, 2012. Mr. Barrett stated that during that period there were 60 mile an hour winds but is happy to report no problems. Mr. Andrews asked if there are any tell tale signs to say if it is failing quickly. Mr. Barrett stated that there were signs but he was trying to get through because the transfer station has been incredibly busy this year. Mr. Barrett stated that between fiscal year 2011 and fiscal year 2012 there was 2500 tons more. Mr. Barrett stated that this fiscal year he predicts to be ahead another 3 or 4 thousand tons. Mr. Barrett stated that he knew it had to be fixed but he was just trying to nurse it through to get to the proverbial slow down time but just didn't make it. Mr. Andrews asked if this is common among transfer stations. Mr. Barrett stated it does just kind of wear out.

- d. **Phase 2A/3A Final Cover Project** – Mr. Barrett stated major modification corrective action design has been submitted and ISWM has received conditional approval from DEP to move ahead. Mr. Barrett stated that this project encompasses 12.5 acres and will include 6 new vertical gas wells along with associated appurtenances. Mr. Barrett stated that all the headers are going to be relocated in their final position. Mr. Barrett stated that the bids opened on August 8. Mr. Barrett stated that the project was subsequently awarded to RC&D Inc. out of Pawtucket RI. Mr. Barrett stated that he hopes to have construction begin this fall focusing on the installation of the remaining gas collection wells for this section. Mr. Barrett stated that the paperwork is being finalized and the preconstruction meeting has been scheduled for October 9, 2012. Mr. Barrett stated that at the meeting he will finalize the construction schedule and he will then report back to the Board of Health regarding key dates, including gas system work. Mr. Barrett stated that he has proposed, and DEP is reviewing, the installation of an effluent distribution system that will take spent reagents from the scrubber system and put them back into the landfill under the cap. Mr. Barrett stated that any new proposals take time for the DEP to review and approve. Mr. Barrett stated that what he is talking about is the liquid that comes off the scrubber with the elemental sulfur in it. This would be pumped into the leachate system. Mr. Barrett stated that if he gets approval on this he is going to run it to a dedicated line to the tank so as not to stop the leachate line. Mr. Barrett stated that he has also been looking into the effect on the gas wells for hydrogen sulfide production. Mr. Barrett stated when you run the scrubber, you run it a little bit more then what is actually needed to accomplish so there is un-re-active materials. Mr. Barrett stated that if you put that back onto the landfill, it kills the bugs that create the hydrogen sulfide. Mr. Barrett stated that the DEP wanted to know if it would have an effect on the bugs that create the methane so they tried it on a very small area and it worked. Mr. Barrett stated that the DEP's interest in this is there are a lot of other places that are contemplating doing this same thing. Mr. Andrews stated in regards to the 2A/3A final cap there has policies and procedures in place and this is a contractor that has not been here before. Mr. Andrews stated that the board has become accustomed to ET&L because they know the policies and procedures for drilling wells, opening up the trenches, putting the pipes in etc.

Mr. Andrews stated that there is the preconstruction meeting on October 9, 2012 and hopes this is highlighted with a lot of emphasis so that all the policy and procedures are followed. Mr. Andrews stated that he does not want to see someone new coming in and not following the policies and procedures. Mr. Barrett stated that at the pre-bid meeting, he went over in depth all the policy and procedures with all the contractors that were bidding. Mr. Barrett stated that he did sit down with RC&D because they are a new contractor and did extensive research on them to see what they have done before and what their success rate was. Mr. Barrett stated that he does not anticipate any changes on anything. Mr. Barrett stated that he did due diligence on investigating who RC&D is to make sure they are adequate for the job. Ms. Coffin asked how long of a project this will be. Mr. Barrett stated that as usual with these caps, they try to do all the gas and piping work in the winter. Mr. Barrett stated that this is a little bit different and it is a bigger project. Mr. Barrett stated that he asked the DEP how they would feel about deploying plastic and not covering it. Mr. Barrett stated that the DEP is ok with that temporary solution. Mr. Barrett stated that it will probably take the better part of next year to complete this project. Mr. Barrett stated that it is a 12.5 acre project. Mr. Barrett stated that he will get as much done as possible this fall and keep working until the weather gets bad. Mr. Andrews stated that this is a weather sensitive project so when it starts to snow, they need to stop working on it. Mr. Barrett stated that it all depends on how bad the weather gets. Mr. Andrews stated that he plans on starting at the north end and working south. Mr. Barlow stated that when the DEP wants to do an experiment at the landfill, especially on a 12 acre site, he would like DEP to talk to the board of health before they do it only because there have been bad experiences with these experiments particularly when they relate to the production of odorous gas. Mr. Barrett stated that it is duly noted to try to inform the board before hand. Ms. Peterson stated that the board wants daily sign off sheets just as before that can be opened at any given moment. Ms. Peterson stated that the board wants to know who is working on them and who is signing off on them from the ISWM department. Mr. Barrett stated that was no problem and it is standard procedure. Mr. Andrews stated that this is a big piece and also a troublesome piece. Mr. Barrett stated that over the years the degradation of hydrogen sulfide production is about 40% a year and he has found this to be the case in this situation. Mr. Barrett stated that the effluent is not a huge problem for him because the inlet concentration of hydrogen sulfide are low compared to what he started out with. Mr. Barrett stated he is hoping that one day he will be able to shut the scrubber off. Mr. Barlow stated that the board is very pleased with the whole situation over at the landfill and it is all going well. Mr. Barrett stated that the DEP is pleased on how ISWM gets things done that is why they keep coming to him with these projects but he certainly would not do anything to jeopardize this operation. Mr. Barrett stated that this is something he is very proud of.

- e. **Update status of RFP Review Process** – Mr. Barrett stated that the working group sub-committee has reviewed the proposals and has finalized any

recommendations in preparation for a formal presentation of its findings to the Selectmen. Mr. Barrett stated that work has begun to select a specialized legal council to guide the town through the intricacies of the pending agreement if an award is approved. Mr. Barrett stated that assuming an award is granted, it appears at this time, that the Board of Health will most likely conduct its review in the late spring or early summer of 2013. Mr. Barrett stated that this is a moving process. Mr. Barrett stated ISWM and a proposed vendor will first move through the various regulatory agencies seeking approval on preliminary permits. Mr. Barrett stated that this process will give DEP, MEPA and the Cape Cod Commission the opportunity to review preliminary plans and make changes that they see necessary insuring that by the time these plans get to the Board of Health, they will be close to being complete and ready for final review. Ms. Peterson stated that she wants to be very clear that she does not want the Board of Health to read something in the newspaper that they were not aware of in regards to this process. Mr. Barrett stated that he agreed and that is why he is discussing this tonight. Mr. Barrett stated that the board will see the initial stages of the permit process. Mr. Barrett stated that will be to the board's benefit. Mr. Barrett stated that he will come back often and update the board as much as the board wants him to. Mr. Barrett stated that by that time, the working group will be reconvened and Mr. Andrews will be back on board, after the review of the sub-committee and the potential award. Mr. Barrett stated that it has kind of handcuffed him a little bit that the whole working group could not be part of the process of the proposals; therefore the Board of Selectmen were a bit out in the cold and did not know what was going on, the Board of Health was out in the cold because they too did not know what was going on. Mr. Barrett stated that once he has something to bring forward and the Selectmen approve it, then Mr. Andrews is back in the game and everyone is on the same page again. Mr. Barlow stated that Mr. Andrews only gets information and brings it back to the Board of Health. Mr. Barlow stated that Mr. Andrews is not the person that will make the decisions for us. Mr. Barrett stated that he understood but the board is seeing things in the newspaper etc that Mr. Andrews has not been a part of and are things that are still just preliminary. Mr. Barrett stated that during the lawyer process, the site assignment was mentioned and the only reason it was mentioned is because Mr. Guerino and the Selectmen wanted to make sure that whoever they selected knew something about Boards of Health and site assignments. Ms. Peterson stated that the attorney Mr. Barrett is referring to will not have anything to do with the Board of Health. Ms. Peterson stated that the Board of Health will be interviewing their own attorney. Mr. Andrews asked if that is the town's attorney for dealing with the contracts. Mr. Barrett answered yes he will be doing the site lease and the contracts. Mr. Andrews stated that later the board of health will have their attorney for the site assignment. Mr. Barrett stated yes. Ms. Peterson stated that there will actually be two attorneys. Ms. Peterson stated that one will be for the site assignment and one will be for the hearing officer. Mr. Barrett stated that when they get to the site assignment process, it will be the decision of the

departments as to whether or not they have legal counsel. Mr. Barrett stated that they may not need legal counsel at that point. Mr. Barrett stated that the Board of Health will have someone representing them and ISWM will be on the other side of the table as the proponent but he may or may not have someone and if he does it may not be Mr. Carlton because of budget issues. Mr. Mulvey asked about the leachate pit. Mr. Barrett explained how it all works for Mr. Mulvey. **No action need be taken at this time**

2. **OTIS PLUME UPDATE** – Mr. Karson, from the Air Force Center and the Environment stated that this is the annual plume update for the base. Mr. Karson stated that it is required that he appear on a yearly basis to update the board with the latest information. Mr. Karson stated that nothing much has changed in the past year. Mr. Karson stated that he is still treating several groundwater plumes out on the base. Mr. Karson stated that there are 80 source areas that are part of the program and those just have monitoring wells. Mr. Karson stated that he is at the point now where most of his program is operations and maintenance for the different systems that are in place. Mr. Karson stated that this does include 3 wind turbines that have been constructed over the year. Mr. Karson stated that there is still the residential well verification program, which he is directly involved with as the project manager. Mr. Karson stated that he submitted a report to the board explaining all his research in Cataumet for private wells. Mr. Karson stated that he is required to draw a zone around the existing plumes and if any property is within the footprint of the plume or within a certain distance, he has to contact the property owners. Mr. Karson stated that out of 467 parcels, 71 have all been identified. Mr. Karson stated that 2 of these wells have been identified as the sole source of water for their properties. Mr. Karson stated that as part of his research and analysis, he tested both properties and they were fine. Mr. Karson stated that there were 47 properties that listed the well as non-functional. Mr. Karson stated that 9 of the properties he has contacted and none of them have reactivated their well. Mr. Karson stated that all the information he has compiled regarding these properties are readily available to the Board of Health. Ms. Coffin asked if the 47 wells Mr. Karson is referring to stay as irrigation wells is there still a concern since they are not for potable water. Mr. Karson stated that if the well is reactivated then he will need to do a technical evaluation. Ms. Coffin asked if deactivated meant no use, whether portable or non-portable. Mr. Karson stated that this was correct. Mr. Karson stated all 467 parcels will be re-evaluated as part of the 5 year reviews. Mr. Karson stated that the next review is due the end of 2013. Mr. Karson stated that CS 19 plume is in the area where explosives were used, these were called RDX explosives. Mr. Karson stated that there is a map provided showing where all these wells are located. Mr. Karson stated that at this point at CS19, there is a well which is just outside the leading edge of the plume and the plume is moving from the base towards Bourne. Mr. Karson stated that this plume is below the reporting limit for RDX. Mr. Karson stated that he does not expect it to migrate out to Route 28. This plume is monitoring only, it is not being treated. Mr. Karson stated that the Landfill 1 plume is a solvent plume and he is not sure where the source area is. Mr. Karson stated this too is the same and there are still operating 60 wells. Mr. Karson stated that the levels are not very high. Mr. Karson stated that everything west of Route 28 with solvent concentrations of TCE and PCE are less than 20 parts per billion, which has been this

way for quite a number of years. Mr. Karson stated that the plume continues to move from the source area and he has a treatment area which continues to dilute and degrade. Mr. Karson stated that he continues to see increasing levels within the plume. Mr. Karson stated that at the landfill cap where three cells that were capped, the 102nd Battalion Wing is planning on sending out a proposal next month for solar panels to be erected on this site to help mitigate their electrical costs. Mr. Karson stated that the last thing he would like to touch upon is the progress at Red Brook Harbor and Squeteague Harbor. Mr. Karson stated that the map shows sampling locations and the results which are done annually. Mr. Karson stated that this is associated with the landfill plume that migrates towards the harbors. Mr. Karson stated that the testing at Red Brook Harbor for PCE has resulted in non-detection, below the recording limit for TCE; and surface water testing at Squeteague Harbor also resulted in non-detection or below the limit for recording. Mr. Karson stated that the seep sampling at Squeteague Harbor indicates just the ground water coming up. Mr. Karson stated that the PCE was detected at 2.7 micrograms per liter. Mr. Karson stated that he has reviewed the historical results of this particular location and believes; going back about 7 or 8 years, the highest level was back in 2008 which were 2.9. Mr. Karson stated that it is not anything to be concerned about. Mr. Karson stated that this is up and down, it fluctuates. Mr. Karson stated that it has not really changed over the years. Ms. Peterson stated that in the future she wants Mr. Karson to give the material prior to the meeting so that the board members have time to review the information given. Ms. Peterson stated that the information must be submitted to the Board of Health office by noon on the Thursday before the meeting. Mr. Karson stated he would do that. Ms. Coffin asked if there were any issues related to shellfish in regard to the seeps. Mr. Karson stated that back in 2004 he did a very extensive analysis and found that there were no concerns. Mr. Karson stated that the state also is keeping an eye on these levels. Mr. Toomey asked if the 2.7 is a high level. Mr. Karson stated that no, it is not a very high level. Mr. Karson stated that the drinking water levels are at 5 parts per billion and this is much lower. Mr. Karson stated that he anticipates no problems out in this area. Mr. Karson now turned the discussion over to Pam Richardson. Ms. Richardson stated that she works for the impact area of groundwater study program. Ms. Richardson stated that she is through the Army National Guard's Clean-Up Program. Ms. Richardson stated that there are only a couple of things she would like to discuss and one of them is the demolition area 1 plume. Ms. Richardson stated that there has been treatment on this plume in 2004. Ms. Richardson stated as a result of the testing, she has seen the plume start to collapse upon itself. Ms. Richardson stated that there are a number of extraction wells and they are working as they should be. Ms. Richardson stated that last year there was a portion of the plume that was going off base and in May of 2011 she started treatment at the base boundaries that was designed to stop additional contamination from going off base. Ms. Richardson stated that the system has been operating for about a year and is working as designed. Ms. Richardson stated that the regulatory agencies, for the past year, have been defining what additional contamination is in an area that includes property owners. Ms. Richardson stated that she has been working with the property owners to access to drill monitoring wells in this area. Ms. Richardson stated that in the Williams Avenue area there are homes there and it is not easy to find areas to drill. Ms. Richardson stated that she has worked with the receiver of the Pocasset Mobile Home Park and got onto the parcel that is south of the

park to install some monitoring wells within the near future. Ms. Richardson stated that now she is evaluating with regulatory agencies if additional treatment is needed for this portion of the plume. Ms. Richardson stated that not only does she monitor town water but also residential water use to make sure that there are no private or potable wells in this area. Ms. Richardson stated that this study should be complete within a month or so and will send copies of the reports to the Board of Health. Ms. Richardson stated that there are a couple of ways in place that she can track and make sure that no one is accessing the water. Mr. Andrews asked how deep the plume was that goes off base. Ms. Richardson stated that she is not sure but thinks about 150 feet deep. Ms. Richardson stated she will find the answer and forward it to Mr. Andrews. Ms. Richardson stated that most of the plumes are pretty deep into the aquifer. Ms. Tinkham asked if there is testing in the pond. Ms. Richardson stated that there are some monitoring wells near the pond and at some point they will be testing the pond itself. Ms. Richardson stated that the plume is much deeper than the pond. Mr. Uitti asked if the pond is named Picture Lake. Ms. Richardson stated yes and she is also referring to Lily Pond. **Ms. Peterson and Mr. Barlow thanked both Mr. Karson and Ms. Richardson for coming. No action need be taken at this time.**

3. **APPROVE THE MINUTES – Dated July 25, 2012 – Mr. Barlow made a motion to approve. Mr. Uitti seconded the motion. All in favor with one abstention.**
4. **APPROVE THE MINUTES – Dated August 8, 2012 – Mr. Andrews made a motion to approve. Ms. Tinkham seconded the motion. All in favor.**

Mr. Andrews made a motion to adjourn. Ms. Tinkham seconded. It was unanimous. The meeting adjourned at 8:02 PM.

Respectfully taped and typed by,

Lisa M. Collett
Secretary

Reviewed and approved by

Cynthia A. Coffin
Health Agent

Kathleen Peterson _____

Stanley Andrews

Stanley D. Andrews

Galon Barlow

Galon Barlow

Don Uitti

Don Uitti

Carol Tinkham

Carol P Tinkham

cc Board of Selectmen/Town Clerk