

**CHITTENDEN SOLID WASTE DISTRICT  
EXECUTIVE BOARD MINUTES  
CSWD OFFICE, REDMOND ROAD  
January 20, 2010**

**EXECUTIVE BOARD PRESENT:** Bert Lindholm, Paul Stabler, Steve Goodkind, Michelle DaVia

**CSWD STAFF PRESENT:** Tom Moreau, Amy Jewell, Dan Goossen, Susan Chapman,  
Brian Wright

**OTHERS PRESENT:** Ed DeVarney, Gas-Watt Energy, LLC  
Don McCormick, Tony Barbagallo, Carbon Harvest Technologies

**AGENDA ITEM:**

1. Approve minutes of October 21, 2009 –Board Action Requested: Approve Minutes
2. Phase 3 Landfill Gas Utilization Contract - Board Action Requested: Recommendation of Contract Amendment
3. Compost Program: a) Compost Relocation Budget  
b) Compost Delivery Dump Truck - Board Action Requested: Approve purchase
4. MRF a) Tip Fee Adjustment / b) Use of projected surplus for carts and/or rate stabilization fund
5. Carbon Harvest – presentation on potential South Burlington Project for Organics
6. Board meeting time
7. Other Business
8. Program Updates
9. Executive Session – MRF Contract Negotiations

**Agenda # 1. Approve minutes of October 21, 2009. MOTION by B. Lindholm, second by M.Davia Approved –all Ayes.**

**Agenda # 2.** B. Wright informed the Board that CSWD has a contract with Ed DeVarney to construct and operate a landfill gas-to-electricity generating plant at the Phase III Landfill. Ed borrowed \$15,000 at 6% interest and has paid that loan off two weeks ahead of schedule. B. Wright referred to item 2 on the memo that notes that the contract has certain deadlines for completion and one of them is to have all three gensets up and running by January 18, 2010 and this has not been met. CSWD is proposing that the Executive Board approve Amendment #4 to the contract so that until the facility is operating at a level of minimum monthly generation of 32,400 KWh, Ed will pay CSWD \$324/month as a minimum monthly payment for the use of the land and landfill gas. B. Wright said that while T. Moreau had mentioned issuing a Request for Interest (RFI) to see if there is any other party interested in this project but Brian noted that with 17 months left on his contract, he recommends waiting. T. Moreau said the Executive board could choose passing Amendment 4 or has the right to end the contract now and Mr. DeVarney would have pull everything out or he could sell it to someone else. T. Moreau noted that D. McCormick from Carbon Harvest has expressed interest in this project.

Ed DeVarney commented that each time he meets with the Executive Board he has made progress and the news is better each time. He said the loan was paid back 10 days early with interest and he is moving forward with necessary items that have to be implemented for completion of the project. He noted that the three terms that come to mind when deciding whether to issue and RFI at this point in the project and after everything he has done up to this point would be “*mildly punitive*”, “*softly malicious*”, and “*an exponential*

*vote of no confidence*”. He closed in saying that he did not feel that an RFI would be useful for CSWD. S. Goodkind asked what happens to the gas that isn’t being used. E. DeVarney said that it is being flared. T. Moreau reminded E. DeVarney to tell CSWD when he is not utilizing the gas for power generation so that we know that our flares need to be running. **Motion by Michelle DaVia, Second by Bert Lindholm to accept Amendment #4 to the Phase III Landfill Gas to Energy Project Facility Construction and Operating Agreement as presented.**  
**Approved – All Ayes. Motion passes.**

**Agenda #3. Compost Program – a) Compost Relocation Budget** – T. Moreau informed the Board that CSWD is very serious about finding a site and making this work for the community. He noted that following the review of over 60 sites trying to narrow it down to a few that would work has been challenging. Problems and concerns include considering the proximity to neighbors, state vs. town road, roads that allow truck traffic, farmers land that are in “Current Use”, Land Trust issues, odor issues, and power issues to name a few. B. Wright handed out a cost estimate to develop a compost site with several options. T. Moreau noted that CSWD’s preferred sites come down to CSWD’s own property on Redmond Road and the Livak site in Richmond. He said that the site should not have a lot of neighbors to prevent issues with traffic and potential odor complaints. T. Moreau reviewed the financial numbers prepared by B. Wright and discussed the pro’s and con’s of each of the listed locations. He said that the Livak site has a poor quality road that is closed during mud season. T. Moreau reviewed the selection process, the legal issues, and the design and permitting. The Board saw various maps of the two locations and discussed the logistics of those two sites.

T. Moreau said that he had talked to Tim Casey about the sand issue if CSWD were to use our Redmond Road property. He explained that HS&G currently takes about 10,000 c.y. of sand per year off of the site. CSWD staff and the Exec Board reviewed the map of the CSWD property to show the sand pit, where the wetlands are located, and where the proposed compost site could be located. T. Moreau said that the initial phase of the compost facility would be enclosed. The issue of leachate removal was discussed for the CSWD property, which included hauling some leachate away.

T. Moreau noted that regardless of the new location, new rules will require that manures and incoming food waste be covered. The proposed building (about 50’ x 220’) for the initial composting phase would be located on a paved area of about one acre. He noted this could be done without effecting HS&G’s sand. The Livak property in Richmond is the other top location but does have its share of issues, including a road issue in the spring and the ACT 250 reclamation issues. Politically, Richmond is in favor of the project but would want Kenyon Road paved between U.S. Route 2 and the site entrance – about 3/10ths of a mile.

Discussion was held on potential issues with both the Livak & CSWD locations including complaints from neighbors. T. Moreau said that he would bring this to the full board for discussion and CSWD will most likely recommend borrowing money from the MRF RIR for construction. He referred to the spreadsheet line 65 that this project could cost between \$540,000 and \$660,000. CSWD Staff would ask the board if they will transfer this money out of savings and most of that money will be in FY 11. M. DaVia recommended only including the Livak & CSWD information on the revised spreadsheet for the full Board to avoid confusion and P. Stabler recommended compressing some of the line items. T. Moreau said he would be meeting with Joyce Livak on the following day. P. Stabler asked that Tom contact Rick McGuire, Joe Duncan, and Mike Coates.

### **Compost Program – b) Compost Delivery Dump Truck**

D. Goossen reviewed the existing lease agreement between CSWD and the Intervale Center for equipment being leased for the operation of the Intervale Compost Products. The Intervale Center is agreeing to sell the truck to CSWD for \$30,000. Kenworth has given CSWD a price of \$30,000 for trade in value. By paying them the \$30,000 and purchasing the truck outright CSWD will avoid paying \$18,579.81 in monthly

payments and believe the truck will be worth more than the \$11,420 that would have been remaining. **Motion by Bert Lindholm, second by Michelle DaVia, to authorize CSWD Staff to purchase the 2006 Kenworth T300 Dump Truck from the Intervale Center for the price of \$30,000. Approved – All Ayes. Motion passes.**

D. Goossen noted that there would be other pieces of equipment that would come up for sale over the next several months.

**MRF #4** – T. Moreau explained that last month CSWD went to the full Board to discuss rebates and the board was not favorable towards rebates. Following the review of this year's budget and the FY 11 Budget, CSWD staff will be recommending that the tip fee be lowered from \$20/in-district (of which \$10/ton is subsidized by the SWMF) - \$25/out-of-district to \$7 in-district and \$12 out-of-district. CSWD will recommend that the rate is changed effective February 1, 2010. S. Goodkind asked about the difference between the decreases for in and out of district. T. Moreau noted that each goes down \$13, it's just not as apparent because there is a subsidy for in-district already. B. Wright said he would send letters to the haulers notifying them of the rate change. P. Stabler suggested discussing this with the full board and send the letter following the full board meeting.

**Agenda # 5 – Carbon Harvest – presentation on potential South Burlington Project for Organics - Don McCormick & Tony Barbagallo from Carbon Harvest** – D. McCormick presented a Power Point to the Executive Board. He explained that Carbon Harvest is interested in working with CSWD on future projects. He summarized that Carbon Harvest has expertise in developing renewable energy systems that take waste and turn it into valuable products. He explained that where most companies that do this might make energy, Carbon Harvest looks at all the best options and uses those products for energy, plants, fish and fuel. He noted that they are in the midst of the Brattleboro project and are also interested in the South Burlington Landfill. D. McCormick explained that Carbon Harvest does not do this alone, but partners with experts from various groups including SHA, Native Energy, New Generation, and UVM Rubenstein School to name a few. He noted that because of Vermont's "Feed-in Tariff" program, there is a critical timing issue with the South Burlington project that requires certain agreements be in place in the next six months. Carbon Harvest develops local renewable energy from waste and creates a viable business that enhances the community and would like to work with CSWD for organic waste diversion programs in the future.

D. McCormick explained the Landfill Gas project, which is a of combined power and heat system to magnify what is being produced and that in order to make the cost of infrastructure work, there is more than just an energy value but also needed heat. Carbon Harvest also includes agricultural integrations to the project, which uses waste heat and recycled water for aquaponics. He noted that the algae component is a new frontier of using the algae to produce biofuel and feed products. He showed a slide of the flow diagram of the landfill gas (methane) to power plant, which then goes to power grid, but also power plant heat goes to green house and also heat to algae culture that then goes to biodiesel. Discussion was held on the issues of materials going into compost. D. McCormick noted that it is unknown whether there would be a troublesome contaminant for compost. He noted that the UVM Rubenstein School would work on the algae piece. He summarized that the goal of Carbon Harvest is to squeeze every potential waste out of a project to make a resource. He noted that they would also like to work with CSWD on solving the biosolids component so that it does not go into a landfill. T. Barbagallo noted that Carbon Harvest has interest in working with CSWD at the Environmental Depot, where existing space and paved pads are not being used and could be used to put a an anaerobic digester. There are existing pads at the Depot that aren't being used that could hold the large heavy tanks. T. Barbagallo explained that there is a lot to discuss in working together including where the capital comes from, who operates it, and how the risk is shared. D. McCormick thanked the Board for their time.

**Agenda # 6 - Board meeting time** – A. Jewell summarized that the majority of Board members were in agreement with moving the board meeting to 6:00 but that this would go to the full board for approval.

**Agenda #7. Other Business** – J. Holliday briefly discussed the legislative issues that she had been involved with. T. Moreau asked that she put this in a memo to discuss to the full board.

**Agenda #8. Program Updates** – no discussion

**Executive session –Motion by Michelle DaVia, second by B. Lindholm to enter into executive session to discuss the MRF contract negotiations. Motion Carried. Entered Executive Session at 7:00 p.m.**

**Motion by B. Lindholm, Second by Michelle DaVia to come out of executive session and reconvene the regular meeting. Reconvened meeting at 7:07 p.m.**

### **ADJOURNMENT**

**MOTION by Bert Lindholm, SECOND by Michelle DaVia, to adjourn the meeting. VOTING: unanimous; motion carried.**

The meeting was adjourned at 7:07 p.m. .