

# CITIZEN'S ADVISORY BOARD

Cherry Island Landfill

July 11, 2016

## Notes

The July 11, 2016 meeting of the Citizen's Advisory Board (CAB) convened at approximately 5:15 p.m. at the Cherry Island Landfill (CIL), 1706 E. 12<sup>th</sup> Street, Wilmington.

Attendees:

### CAB

Vince D'Anna  
James E. Parker II  
Sandra Smithers  
Darius J. Brown

### DSWA

Richard Watson  
Lynsey Kocenko  
Uriel Mendonça

### DNREC

Brad Richardson  
Mark Lyon

One (1) member of the public: Karen Hartley-Nagle

### ***Introductions***

Mr. D'Anna introduced Lynsey Kocenko as CIL's Facility Manager and first time at the CAB meeting.

### ***Department of Natural Resources and Environmental Control (DNREC) Update***

Mr. Richardson presented DNREC's update on their activities at CIL.

Mr. Richardson reported that during the 2<sup>nd</sup> quarter of 2016, there were no odor complaints, no fires or prohibited waste reported and DSWA issued no citations for yard waste during the quarter.

DSWA is in the process of renewing their permit to operate CIL, which has been reviewed by DNREC. DSWA submitted a final and completed draft of the Application to DNREC on April 27. On May 20, DNREC issued a public notice announcing that the completed application was available for the 15-day public review. In addition, DNREC notified 30 individuals who expressed specific interest in CIL. These were inclusive of the CAB members, local and state politicians and local community leaders. During the 15-day public review, there were no requests for a public hearing. There was one (1) comment submitted by the City of Wilmington. The existing permit expires 9/30/16. However, as there were no requests for a

public hearing, the 60-day clock to issue a new permit began on 6/6/16, therefore it is anticipated that the permit should be renewed by 8/5/16.

The City of Wilmington's comment came from Ms. HariNarayan (Huddy) Grandy, Assistant City Solicitor, on behalf of the Public Works Department. The City is concerned with the mud and dirt track-out impacting the storm water system on 12<sup>th</sup> Street. DNREC has been working with DSWA and the City to address the problem.

Mr. D'Anna inquired if this issue was raised by the City before the Permit Application?

Mr. Richardson responded "No".

During the April 2016 CAB meeting, the board voted and passed the Motion to accept proposed permit language which will reduce the number of mandated CAB Meetings to semi-annually. The proposed language also allows for the CAB to increase or decrease the number of meetings by a quorum of the voting members without having to modify the permit and the meetings shall not be decreased to less than one (1) meeting per year. In addition, the CAB will eventually have to re-draft their Charter in relation to the permit language. This however should be done after the permit is renewed.

DSWA has been working on sedimentation and erosion issues on the landfill. DSWA has also been working on repairing the liner system on the east side of the landfill. All damages to the liner have been repaired and the liner re-covered with the proper thickness of material. With Mark Lyon onsite daily, DNREC has been monitoring these situations on a continual basis as well as other daily operations.

In conclusion, Mr. Richardson reported that according to onsite inspections during the 2<sup>nd</sup> quarter, DSWA has controlled odors, litter and dust on site and off as required by permit.

### ***CIL Update***

Ms. Kocenko reported, in addition to Mr. Richardson's update, on July 5, the City of Wilmington's Waste Water Treatment Plant (WWTP) was able to get both engines running. The previous weekend they were up to 560 cubic feet per minute (cfm) with Engine 1. Unfortunately they are currently having some issues with their programming and Engine 2 is not working. They hope to have it in operation by the end of July or beginning of August. Once they get both in operation they should be able to use 1,000 to 1,200 cfm. The landfill currently generates approximately 2,700 to 3,000 cfm and approximately 1,500 cfm is sent and used by Croda in New Castle. When the WWTP takes 1,000 to 1,200 cfm a small remainder will be flared.

Mr. D'Anna inquired what revenue does DSWA make on the landfill gas?

Mr. Watson, responded that he did not have concrete numbers as it is tied to the price of natural gas, but will research for the CAB.

Ms. Smithers requested the information be included in the meeting notes.

*In light of Ms. Smithers' request, Mr. Watson researched and resulted in the following:*

*Cherry Island Renewable Energy (CIRE), the subsidiary of Cummins, Inc., is required to pay DSWA the minimum amount of approximately \$1,000,000 per year. If DSWA can provide a larger amount that CIRE can process and in turn sell to their customers, that amount would increase accordingly. For the past few years, they have only been able to sell the minimum required amount. DSWA has been collecting approximately 50+ percent more gas than CIRE has been able to sell, but with the expectation that the City of Wilmington's Wastewater Treatment Plant will consistently need most of this excess gas in the immediate future, the revenue hopefully can increase.*

*Although this is a lot of revenue for DSWA, it is also a large expense for us to install and operate the gas collection system. Presently we spend approximately \$1,800,000 per year to do so. Our main purpose to collect landfill gas is for safety (to prevent explosive hazards) and for air emissions and odor control. Getting enough Revenue to offset most or potentially all of the expense is an important but secondary goal.*

Mr. Richardson inquired if DSWA just has the one contract with Cummins?

Mr. Watson responded that the contract is with Cummins. They have their own pricing for their customers and likewise Cummins makes the engines that burn the landfill gas and they sell the engines.

Mr. Watson further explained that the fortunate thing here at CIL is that hydrogen sulfide is a lot lower here than at our other two landfills in southern Delaware.

Mr. D'Anna inquired why is it lower here?

Mr. Watson, explained that there's a lot more construction debris and drywall at those landfills with a lot of gypsum in it and gypsum makes hydrogen sulfide gas. There's a big expense to treat the hydrogen sulfide gas. At our southern landfill which has the most construction debris, we're spending approximately \$1,000,000 a year to treat the landfill gas.

Mr. D'Anna inquired if it would be more beneficial to have a separate industrial landfill?

Mr. Watson responded that such a landfill is a huge expense, but to Mr. D'Anna's point, we are segregating the material from the regular waste. We really want to treat for odor control,

so we really want to pre-treat or better yet, keep it from getting into the landfill. We're fortunate here at CIL that we have lower levels.

Ms. Kocenko continued reporting that DSWA has two (2) gas lines that were put in place when we were sending gas to Calpine. They're no longer in use, but the bridge on hay road is being reconstructed by DelDOT. We have requested that those two gas lines be kept in place, in case we ever have to use them in the future.

Ms. Kocenko informed the attendees that DSWA just concluded a waste characterization study statewide. DSM Environmental Services, Inc. and MSW Consultants were the companies used to conduct the study. Once the study is completed statewide, they will issue a report, which should probably be issued in September.

Ms. Smithers inquired as to what is the purpose of this report and will you compare this report to the last?

Mr. Watson explained that it's for planning purposes. Also we share this information with the Recycling Public Advisory Council (RPAC). RPAC calculates the State's overall recycling. The study will show us the impact of the 2010 legislation to create universal recycling and see how effective that law has been. We will actually have a way of measuring it and then we will see where we are now and where we can go in the next five (5) years. So, yes the new report will be compared to the last.

A discussion ensued regarding recycling.

Ms. Kocenko inquired if the Board has ever been to the Delaware Recycling Center (DRC) and the Materials Recovery Facility (MRF)?

The members responded "No"

Ms. Kocenko, suggested a tour of the DRC on the next meeting date after which the Board can meet at the DRC.

### ***Next Meeting***

The next meeting is scheduled for Monday, 10/3/16 at the Delaware Recycling Center. The tour of the MRF will be at 3:00 p.m. and the meeting will follow.

Meeting adjourned at approximately 5:45 p.m.

**DSWA Cherry Island Landfill Summary for the Citizens Advisory Board**  
**Prepared by Brad Richardson, DNREC Solid & Hazardous Waste Management Section**  
**July 11, 2016**

1. During the 2<sup>nd</sup> quarter of 2016 and the preceding two calendar years, DSWA has recorded no complaints in their Odor Complaints Log for Cherry Island Landfill (CIL). The last odor complaint was reported in 2013.
2. There were no fires reported at CIL during the 2<sup>nd</sup> quarter of 2016.
3. No prohibited wastes were reported as received at the landfill during the 2<sup>nd</sup> quarter of 2016.
4. During the 2<sup>nd</sup> quarter of 2016, DSWA issued no citations for yard waste at the working face.
5. DSWA is in the process of renewing CIL's permit to operate. As such, the Department reviewed the CIL Permit Renewal Application and submitted comments to DSWA on February 29<sup>th</sup>. The Department received the final and completed draft of the Application from DSWA on April 27<sup>th</sup>. On May 20<sup>th</sup> the Department issued a public notice announcing the completed application's availability for the 15-day public review. Additionally, personalized notifications were sent to approximately 30 individuals who have specific interest in CIL: CAB members, local and state politicians and local community leaders. There were no requests for a public hearing submitted to the Department during the 15-day public review. There was one comment on the application, which was submitted by the City of Wilmington. The existing permit's expiration date is **September 30, 2016**. However, with the issuance of the application's public notice with no requests made for a public hearing, the 60-day clock to issue a new permit for CIL started running on June 6<sup>th</sup>. Therefore, the permit should be renewed on or before August 5, 2016.

The City of Wilmington's comment came from Ms. HariNarayan (Huddy) Grandy, Assistant City Solicitor, on behalf of the Public Works Department. The City's concern is the degree of mud and dirt track-out impacting the storm water system on 12<sup>th</sup> Street. The Department has been working with both DSWA and the City to address this problem via additional permit language; i.e., including language in the permit directing DSWA to minimize track-out, conduct daily inspections of the 12<sup>th</sup> Street storm water system, and communicating with the City's Public Works Department when sediment accumulation is observed in their storm sewer system.

6. During the previous CAB meeting, on April 4, 2016, the board voted and passed the Motion to accept the proposed permit language which will reduce the number of mandated CAB Meetings to semiannually. The proposed language also provides that the board may further increase or decrease the frequency of the CAB meeting by a quorum of the voting board members without having to modify the permit (so long as the frequency shall not be reduced to less than one meeting per year).

Additionally, the CAB will eventually have to re-draft their Charter to bring it into agreement with the permit language. This should be done after adoption of the renewed permit.

7. DSWA has been working on sedimentation and erosion issues on the landfill. Also, related to the erosion issues, DSWA has been working to repair the liner system on the eastside of the landfill. The barrier material which buffers the synthetic liner from the eventual MSW had been eroded when the “raven” tarp was torn in a high-wind event. The removal of the “raven” tarp allowed subsequent heavy rains to wash out the barrier material. DSWA has since repair all damages to the liner and re-covered the liner with the proper thickness of barrier material. With Mark Lyon on-site daily, DNREC has been monitoring these situations on a continual basis as well as the other daily operations.
8. According to our on-site inspections during the 2<sup>nd</sup> quarter of 2016, DSWA has controlled odors, litter and dust both on site and off in accordance with the conditions of their solid waste facility permit.