

CHESTER COUNTY SOLID WASTE AUTHORITY

Combined Work Session & Regular Meeting — Lanchester

April 30, 2015

- 1. Call to Order:** Bob Schoenberger, Chairman, called the April 20, 2015 *Combined Work Session & Regular Meeting* of the Chester County Solid Waste Authority to order at 5:30 p.m.

Authority Members Present

Bob Schoenberger
Peter Knipe
Ramsey G. DiLibero
Peter Marroletti
E. Joel Martin
Vince Carosella

Authority Members Absent

Kim Venzie

Management and Staff Present

Robert A. Watts
Gary Laird
Mike Magrann
Owen Esterly
Terry Devine

Solicitor

Vincent M. Pompo, Esquire

- 2. Chairman's Announcements/Public Comments:**

The Chairman had no announcements.

- 3. Meeting Minutes:** Mr. Marroletti moved and Mr. DiLibero seconded approving the *Combined Session Meeting* minutes of March 26, 2015. The vote was unanimous.

4. **Executive Director's Report. (RAW)**

A. Monthly Activity Report: Mr. Watts said this continues to be tour season and on Wednesday he and Ms. Devine lead a tour for all the third graders attending the Honey Brook Elementary Center. Mr. Watts said an operational issue he was involved with this month was that one of our haulers twice had metal in wood loads that caused our wood processor damage to their grinder. The hauler committed to more vigilance in preventing large pieces of metal in wood loads. Mr. Watts said he and the Chairman again met with representatives of a gasification development project for Chester County in March. Mr. Watts said he, Mr. Schoenberger and Ms. Venzie were present along with the widow and son of former Board Chairman Milt Allen to present a \$2,000 donation in his name to the Coatesville Library in his name. Mr. Watts said Mr. Esterly, Ms. Devine and himself attended a webinar recently on Evaluating Erosion, Sediment and Sedimentation. This was the first in a series of six webinars. Mr. Watts said it was a good refresher and they would probably sign up for additional webinars, but did not believe all six applied to their needs. Mr. Laird is planning to attend an all-day seminar on erosion and sedimentation during May. Mr. Watts said he has changed the status of the property CCSWA owns at 79 Lanchester Road in Honey Brook. We hired a structural engineer and he certified it is structurally sound. Rather than demolish the house we are now developing plans to convert the house into a nature center.

B. Senior Staff Memos: Mr. Watts said the Board members could read the Senior Staff Meeting Minutes contained in Section 4B at their leisure.

C. Solid Waste News: Mr. Watts said the first article in this section was concerning the City of Harrisburg has determined that just 22 commercial accounts owe them about a million dollars. The second article was concerning New York City's plan to achieve Zero Waste by 2030. The next article was concerning the Lancaster Authority's plans to expand their landfill. There were two articles in this section concerning mixed waste processing. There were three articles in this section concerning challenges other PA landfills are facing as they apply for expansions. Chester County has been named as one of the fastest growing areas in the region with 18% growth between 2000 and 2014. Mr. Watts said there was an April 9, 2015 article by Peter Anderson of *Waste 360* in this section which did a very good job in discussing Zero Waste and a new Waste Hierarchy. There was a chart in this section from *Waste 360* that indicates that workers in the waste and recycling industry are the fifth most dangerous occupation – right behind roofers.

D. Correspondence: Mr. Watts said the first correspondence in this section was the appointment of Ms. Venzie to a five year term on CCSWA's Board of Directors expiring June 30, 2020. The second correspondence in this section was a thank you note for a tour Ms. Devine, Mr. Esterly and Mr. Watts gave students from the Lancaster-Lebanon Intermediate Unit Special Education Services. The next was the first page of a monthly report from Cleveland Research Company on solid waste industry trends. Mr. Watts said he is polled each month on trends at the Lanchester Landfill so they send him the report for free. Mr. Watts said the full report is available if Board Members are interested. The next letter in this section is the first page of our application to PADEP with help from

Barton & Loguidice for a minor permit modification for the Phase I of a three Phase Lanchester Landfill Re-Vegetation Plan. The last item in this section was a two page excerpt of an unsolicited proposal from VC Energy Corp – waste gasification plant.

E. Groundwater & Stormwater Memo: The first item in this section was an updated spreadsheet of private wells that have been tested for mercury. Mr. Watts said the nine recent wells that have been tested did not detect mercury. Mr. Watts said the owner of one of the two wells that testing has detected mercury has requested a meeting with Mr. Watts and Caernarvon Township Board of Supervisors – no date has been set yet. Mr. Watts said he also included one leachate graph in this section. Last month he plotted all parameters tested against maximum leachate concentrations usually seen at MSW Landfill according to SWANA. Mr. Watts said the only parameter in the Lanchester Landfill's leachate that was above the SWANA maximum (but well below the levels cited in other literature) was ammonia. The first quarter leachate result for ammonia was below the SWANA maximum in the first quarter of 2015. The next item in this section was an April 29, 2015 memo from Golder Associates to Ms. Devine concerning mercury in the ground water at the Lanchester Landfill. Mr. Watts said the entire report was included in this section except for graphs plotting mercury concentrations over time that the Board had seen previously and he would be glad to supply them again to interested members. The conclusion of the report was that leachate was not the source of mercury, but rain water reacting with the rocks below the landfills at Lanchester and releasing metals to the aquifer including mercury. Mr. Watts included in this section a picture of some of the erosion on the IU Landfill from October 7, 1985. Also in this section was a series of pictures showing the clay and PVC cap that was installed in 1988 on the IU Landfill. The next series of pictures in this section were of Sedimentation Ponds 1, 6, 10 and 11 after sediment removal. There was also a picture and illustration in this section concerning how the emergency spillway to Pond 6 is designed. The emergency spillways have not been needed in the 16 years Mr. Watts has been at Lanchester. Mr. Watts said this is a tribute to the overdesign of these sedimentation ponds since they are only designed to hold a 25 year 24hr storm. Mr. Watts said as the water rises in the Sedimentation Ponds it begins to leave the pond through the holes in the riser pipe. If the water continues to rise it will enter the riser pipe through the top as well as the holes in the pipe. If the water continues to rise a few more feet the water will then enter the emergency spillway to prevent erosion of the pond berm that could lead to a berm failure. Berm failure could release a large quantity of water very quickly. The last item in this section was the first part of a three part investigation we have asked the ARM Group to complete for CCSWA. The first part was sampling of soil, sediment and alternate daily cover at the Lanchester Landfill. There were 20 samples taken from around the landfill – a map of sampling locations is included. The conclusion was that only Posi-Shell (a spray on cement product - PADEP approved alternate daily cover) and bottom ash from Evergreen Community Power (ECP) could be potential sources of mercury if not used properly. Mr. Watts said the way Posi-Shell is used at Lanchester would provide little time for rainwater to be in contact with Posi-Shell because it is used on slopes that shed water very quickly. Mr. Watts said they will make sure they handle ECP bottom ash in a way that will minimize any tracking or contact with water.

Sections F and G – the Board entered Executive Session to discuss litigation and property purchase at 6:14 pm and returned to regular session at 6:36 pm.

H. Mission Statement: Mr. Watts said the Board had asked him and Mr. Martin to develop new Mission Statements at their last meeting. Mr. Watts said in this section was our current Mission Statement – which is very long. Mr. Watts said he added to this section the CCSWA Articles of Amendment from December 15, 2011 as a guide to the mission. Mr. Watts said Mr. Martin, Ms. Devine, Mr. Magrann, Ms. Fromnick and himself have Mission Statements in this section for the Board’s consideration.

I. Donation Request – Honey Brook Borough: Mr. Marroletti moved and Mr. Knipe seconded donating \$5,000 to Honey Brook Borough to help pay for their new police cruiser. The vote was unanimous.

5. Operations/Site Development Report.

A. Monthly Activity Report: Mr. Watts said we recorded 2.68” of rain in February. CDS processed almost 700 tons of wood during this period. We did not use any water for dust control in March and only used 246 gallons of the odor neutralizers. In this section is the inspection report from Vision Engineering for Caernarvon Township and their Host Inspector were in this section. Also included in the section was one page of the PADEP inspection for March. Mr. Watts said unless the Board directs him otherwise he plans to only include any comments in this section by the PADEP inspector when there are no violations. The inspection reports had no violations or concerns. Mr. Watts said included in this section were graphs of cost of daily cover, diesel fuel use, landfill gas production, contracted labor and average overtime hours by month per operation’s employee. Mr. Watts said the cost of cover was reduced this month by EPC bottom ash and not buying much daily cover. Mr. Watts said new this month is a report that is available from our Caterpillar Dealer via their VisionLink service. This service is available to six of our Caterpillar equipment – two compactors, two bulldozers and two loaders. This report compares our equipment usage to other landfills in their service area – Most of PA and some of MD and WV. Mr. Watts said our equipment idled on average 7% less than other’s equipment in the region. Mr. Watts again said it is hard to find a perfect benchmark for landfill equipment because each day and each landfill have many different factors that affect equipment use. Mr. Watts said for example our loader use is probably not similar to what other landfills use their loaders for – we do not have a borrow pit like most landfills that use the loaders to load trucks with soil – we use our loaders to spread cover and at our compost area.

6. Facility Engineer's Report. (ORE)

A. Monthly Activity Report: The Monthly Engineer's Report for the April 2015 Board Meeting was presented to the Board. The following items were discussed.

- A Request for Proposal (RFP) for design, bidding; and construction phase engineering services needed for the 2015 Final Cover System construction was prepared. The RFP was sent to prospective consultants and published on the Authority's web page beginning on March 30, 2015. Pre-proposal meetings with prospective consultants were held on April 14 and 17, 2015. A cost proposal summary table is furnished later in the agenda. .
- Severson Environmental Services (SES) submitted another iteration of landfill gas system Record Drawings for the Area E Stage 2 Construction. These drawings are now under review by the ARM Group. A final punch list has been drafted. SES has not yet verified or confirmed that the work is 100% complete.
- The Construction Certification Report and the PADEP Form 37 for the Cell D3 Alternative Final Cover Construction remain under PADEP's review. Monthly monitoring of the demonstration facility remains in progress.
- A topographic survey drawing needed for the 2015 Final Cover System design was prepared. There are two areas of the landfill that require additional filling before the final design can proceed.
- Work on the Annual Leachate Recirculation Report for 2014 remains in progress.
- A kick-off meeting for the 2015 Financial Assurance update was held on April 6, 2015.
- The remainder of the report was presented for the Board's review.

B. Area E, Stage 2 – Monthly Status Report: ARM's Monthly Construction Progress Report dated April 22, 2015 concerning Area E; Stage 2 was presented to the Board. The report included a correspondence update and a status report concerning the final payment application.

C. Severson Correspondence: SES correspondence during the period was presented to the Board as follows:

- Nonconforming Work Notice #13 (NWN #13);
- SES letter to CCSWA dated April 2, 2015 regarding NWN #13;
- CCSWA letter to SES dated April 6, 2015 regarding NWN #13;
- Attorney Sargent's letter to Attorney Pettit dated April 15, 2015 regarding NWN #13;
- SES letter to CCSWA dated April 20, 2015 regarding NWN #13;
- Attorney Pettit's letter to Attorney Sargent dated April 20, 2015 regarding Contract No. 13-418C-E2;
- ARM's letter to SES dated April 23, 2015 regarding NWN #13;
- Attorney Pettit's letter to Attorney Sargent dated April 27, 2015 regarding NWN #13;
- Attorney Sargent's draft letter to Attorney Pettit dated April 30, 2015 regarding SES/CCSWA.

D. ARM – Monthly Status Report: The Monthly Status Report from the ARM Group dated April 13, 2015 was presented to the Board.

E. 2015 Final Cover System – Engineering Proposals: The Cost Proposal Summary Table dated April 27, 2015 regarding the 2015 Final Cover System design, bidding and construction phase engineering services was presented to the Board. Five proposals were submitted. Two of the proposals included exceptions to the Authority’s Standard Consulting Agreement. The Request for Proposals explicitly states that “the Authority’s policy does not allow for any exceptions or modifications to this agreement form.” The three other proposals did not take exceptions to the agreement form and remain under review.

7. Water Management’s Report. (GAL)

A. Monthly Activity Report: The following is the report for Water Management.

Leachate Storage Balance

	Month of March 2015	<u>Gallons</u>
Beginning of Month Leachate in Storage		465,000
Metered Leachate Flow from Landfill		936,500
System / Meter Variance for Month (calculated)		72,056
subtotal of Gallons Available for Disposal		1,473,556
Leachate Hauled Offsite		(541,000)
Leachate Treated		(59,580)
Leachate Recirculated to Landfill		(125,476)
End of Month Leachate in Storage		747,500
	Meter Variance 7.69%	

LEACHATE STORAGE UPDATE: (As of March 31, 2015)

T-101 Leachate Storage Tank	-330,000 gallons	capacity – 850,000 gallons
T-115 Leachate Storage Tank	-307,500 gallons	capacity – 850,000 gallons
<u>T-100 Equalization Tank</u>	<u>-110,000 gallons</u>	<u>capacity – 110,000 gallons</u>
Total Leachate Storage	-747,500 gallons	capacity –1,810,000 gallons

Total percent of storage utilized - 40 %

LEACHATE COLLECTION SYSTEM:

- Currently the Leachate collection system is 100% operational. Monthly maintenance is being performed, cleaning strainers and impellers on pumps and paddle wheels on flow meters.
- Data including leachate levels, pumping rates, and flow totalizer numbers are collected Daily Monday through Friday.

RECIRCULATION SYSTEM

- Recirculated mainly into the Area C recirculation blankets during the month of March 2015.
- Area D Recirculation Blankets were test run for two days. After sitting unused for several years while waiting for the landfill to be built several components needed to be replaced

Recirculation to date: 3/31/2015 Trenches:

<u>Trench</u>	<u>Recirculated (gal)</u>	<u>Maximum (gal)</u>
E	1,793,912	2,631,930
F	3,130,621	3,682,875
G	3,263,425	5,066,750
H	1,366,965	5,687,500
Total	14,283,692 (gal)	21,681,836 (gal)

Remaining Trench Capacity – 7,472,834 gallons

Recirculation Blankets:

- 87,500 gallons recirculated into the area C blankets

<u>Area C Blankets</u>	<u>Recirculated (gal)</u>	<u>Maximum gallons/year</u>
2	146,187	1,250,000
3	142,719	1,250,000
4	151,145	1,250,000
Total	440,230(gal)	3,750,000 (gal)

- 37,976 gallons recirculated into the area D blankets

<u>Area D Blankets</u>	<u>Recirculated(gal)</u>	<u>Maximum gallons/year</u>
1	30,685	1,250,000
2	21,000	950,000
3	17,491	825,000
Total	69,176	3,025,000

LEACHATE TREATMENT PLANT (UFRO SYSTEM)

The UFRO ran 21 days during March. The plant processed 59,580 gallons this month averaging 2,837gpd.

GROUND WATER INFLOW/STORAGE UPDATE: 3/31/2015

- Ground Water Holding Pond – 714,000 gallons 89 % of capacity.
- The Ground Water Holding Pond Outfall 101 maintained a manageable level during March 2015 with a small discharge.
- Analytical testing for arsenic and lead was performed this month and results came back non-detect. Analytical is attached.
- Water from this Groundwater Holding Pond is available for Contractors as well as CCSWA staff for dust control.
- Total Ground Water received for March 2015 – 66,740 gallons.

NPDES PERMIT:

NPDES PERMIT DMR PA 0082791 for Outfall 001,100, and 101 CONESTOGA RIVER dated March 27, 2009 – The NPDES DMR Outfall 001, 100 and Outfall 101 for March 2015 has reported full compliance with the 2009 NPDES Permit. All Monitored Parameters were below required discharge limits. 423,600 gallons from the effluent equalization tank (Outfall 100) of treated permeate and 49,100 gallons of groundwater (Outfall 101) Ground Water Holding Pond, was discharged to (Outfall 001). A total of 472,700 gallons was discharged to the Conestoga River (Outfall 001) during March 2015.

8. Compliance Officer's Report. (TAD)

A. Monthly Activity Report: Ms. Devine reported that the Board had hired ARM as the new hydrogeologists and that they had submitted a draft 2014 Annual Ground Water Report. It has been reviewed and we should have the final report soon.

Ms. Devine reported that there were eight radiation alarms in the past month. All were I-131 and all were landfilled.

Ms. Devine stated there were no odor complaints to report.

Ms. Devine also reported the enclosed flare was operated for 10.7 hours in the past month and the utility flare operated.5 hours.

Ms. Devine also reported that Chester County Solid Waste Authority employees have worked 839 days without a lost-time accident, the last being in December 2012.

Ms. Devine informed the Board that the IU sumps had recently been pumped and we collected the first of four samples of the IU site leachate for testing in support of a delisting petition.

Ms. Devine reported that a number of school groups were on-site for tours.

Ms. Devine also mentioned that she met with a youth group from a church located in Denver, Pa on Easter morning, on top of the landfill for their sunrise service.

B. Exceedence Reports: Ms. Devine also informed the Board that the 1st quarter results for 2015 were recently submitted to DEP, and that she had MCL exceedance reports for the wells and the leachate locations attached to her report.

C. Inspection Report: Ms. Devine met Dept. of Ag, DEP and Caernarvon Township HMI inspectors on-site for various site inspections. The Department of Ag. Inspection report was attached to her report.

D. Perimeter Landfill Gas Testing 1st Quarter: A report of the 1st quarter perimeter gas monitoring event. There were no exceedences to report.

9. Recycling Coordinator's Report (NJF)

A. Monthly Activity Report: Mr. Watts said Ms. Fromnick had the night off and he if Board Members had any questions he would try and answer or they could contact Ms. Fromnick directly.

10. Business Manager's Report. (MPM)

A. March 2015 Financial Statement: Mr. Magrann presented the Financials for March 2015 stating that Net Income was \$325,867, which was 26.5% (\$117,564) below the Budgeted amount for the month, and 23.8% (\$260,897) below Budget for the year. Retained Earnings at the end of March 2015 were at \$64,455,364. The funds invested totaled \$41,306,250 at month end. Mr. Marroletti made a motion to accept the Financial Statements as presented; Mr. DiLibero seconded the motion. The motion was carried by a unanimous vote.

B. March 2015 Accounts Receivable: Mr. Magrann stated that receivable days outstanding decreased from 41.02 days in February 2015 to 36.44 days in March 2015. In addition, Rental Property Collections was higher than Expected Net Rentals Due by \$2842 in March 2015.

C. March 2015 Tonnage/Customer Information: Mr. Magrann presented the Tonnage Report for March 2015 of 23,492 tons which was 2.30% below budget for the month and was 3.97% higher than the March 2014 tonnage received. The March 2015 Y-T-D tonnage received was 6.04% lower than the March 2015 Y-T-D budgeted tonnage and 1.14% lower than the March 2014 Y-T-D actual tonnage.

D. March 2015 Check Register Report: The Vendor Check Register for March 2015 was presented to the Board by Mr. Magrann. The checks totaled \$254,377.13. Mr. Marroletti made a motion to accept the Check Register as presented; Mr. Carosella seconded the motion. The motion was carried by a unanimous vote.

E. Large Dollar Check Approvals: Mr. Magrann presented the Large Dollar Invoices (from March 27, 2015 to April 30, 2015) totaling \$212,681.91. Mr. Marroletti made a motion to accept the Large Dollar Invoices as presented; Mr. Carosella seconded the motion. The motion was carried by a unanimous vote.

F. PADEP Quarterly Payment Summary – 1st Quarter 2015: Mr. Magrann presented a request to approve Mandated and Non-Mandated 1st Quarter, 2015 Act 101 Fees totaling \$886,838.70. Mr. Marroletti made a motion to accept the Act 101 Fee Summary as presented; Mr. Martin seconded the motion. The motion was carried by a unanimous vote.

The meeting was adjourned at 8:03.

Prepared by,
Peggy A. Cunius