

# CHESTER COUNTY SOLID WASTE AUTHORITY

## *Combined Work Session & Regular Meeting — Lanchester*

*May 21, 2009*

1. **Call to Order:** Bob Schoenberger, Chairman, called the May 21, 2009 Combined *Work Session & Regular Meeting* of the Chester County Solid Waste Authority to order at 5:34 p.m.

Authority Members Present

Bob Schoenberger  
Dante W. Renzulli, Jr. Esquire  
William H. Shirk  
Peter Marroletti  
Vince Carosella

Authority Members Absent

Peter Knipe  
Ramsey G. DiLibero

Management and Staff Present

Robert A. Watts  
James M. Gorney  
Gerald A. Myer  
Gary Laird  
Owen R. Esterly  
Teresa A. Devine

Solicitor

Vincent M. Pompo, Esquire

2. **Meeting Minutes:** The minutes of the April 23, 2009 *Work Session* and the April 30, 2009 *Regular Session Meeting* will be approved next month.
3. **Chairman's Announcements.** (BS)

The Chairman said he is cancelling next week's *Regular Meeting* due to the lack of a quorum.

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

**A. Monthly Activity Report:** Mr. Watts said he would like to discuss a few items contained in his monthly report in Section 4A. Mr. Watts said the Local Municipal Involvement Process Meeting was hosted at the Caernarvon Township Office by PADEP last week. We negotiated to 600 days of PADEP review time of the Area E Landfill expansion application. Steve Nichols (Caernarvon Township Supervisor) expressed his concern for continuing to host one of Chester County's primary disposal options.

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

**C. Newspaper Articles:** This section contained two articles by Joe Fenstermacher who recently became the Republican candidate for Honey Brook Township Supervisor. This section also contained an article by *Bloomberg.com* stating that landfill gas and waste to energy will play an important part in trying to meet the Presidents goals on “green-energy”. This section also contained an article on the PA Senate’s version of the budget. They are proposing additional cuts to environmental funding and the article also pointed out that over the last seven years \$784 million dollars has been diverted out of environmental funds into the General Fund to balance the budget.

**D. PADEP Press Releases:** This section contains a copy of the recent release on Pennsylvania’s proposed nutrient reductions to help clean up the Chesapeake Bay.

**E. SWANA Updates:** This section contained a copy of memos from International SWANA staff on federal energy legislation and how it may affect the waste industry.

**F. Thank You Letter:** This section contained a copy of the thank you letter from our recent donation to the Caernarvon Historical Society.

**G. SRBC Agreement:** This section contains a copy of the latest version of the Draft Settlement Agreement.

**H. PA Legislation:** There was three new House Bills that may affect the waste industry submitted in May. HB 594 would develop a program for the disposal of and education concerning home-generated medical sharps. HB 1069 on County Fees has come out of committee.

**I. Granger Second Amendment:** Our latest version of this contract amendment was discussed. The Board asked Mr. Watts to include a provision in the contract to allow CCSWA to take over adjusting the landfill gas well field and flare operations if there are notices of violation.

**J. PADEP 1<sup>st</sup> Quarter Disposal Tonnage:** Mr. Watts said this information was just posted to their web site today so he has not had time to completely evaluate it. Mr. Watts said Chester County disposed of 123,738 tons of waste in the first quarter of 2008 in Pennsylvania facilities. The same quarter this year only 101,622 tons were disposed off.

5. **Operations/Site Development Report. (GAM)**

**A. Monthly Activity Report:** The following is the report for Operations/Site Development.

**Landfill Gas Collection/Odor Control**

Mr. Myer reported the current gas flow is approximately 2600 SCFM. The generator has been running constantly at 1,500 KW.

**Weather**

We received 4.32” of rainfall in the month of April.

**Compost Site**

We are accepting leaves, skids, and vegetative wood waste. W. D. Zwicky was on site and processed 99.19 tons of skids to be recycled. Deamer Trucking has been hauling leaves off site for composting.

**Miscellaneous Site Work**

Page 2 has a partial list of the routine work for the month.

**Man-Hours**

Page 3 shows how the man hours were spent for the month.

**Equipment and Current Events**

We continue to monitor the landfill perimeter for odors. Orders have not been a problem but, we received an odor complaint today (Thursday May 21) through PADEP from a resident on Reservoir Road. Three odor control misters were running at the time due to well drilling which was taking place in the vicinity of EW-312. After receiving the complaint three additional odor control units were activated. The perimeter was checked with no odor present and no additional complaints were received.

Brubacher Excavating is on site repairing erosion at the toe of slope in cell D-3

**Upcoming Projects/Activities**

Brubacher Excavating to correct/repair erosion problems and help prepare slopes for Hydro-Seeding.

Backfill and cap the excavated area in the vicinity of EW 312

**Landfill Inspections**

John Pollock (PADEP) was on site April 16, 2009 for an inspection. A copy of John's report is included. Joe Cutter (Caernarvon Township Inspectors) was also on site several times during the month. A copy of his report is included.

6. **Facility Engineer's Report. (ORE)**

**A. Monthly Activity Report:** The Monthly Engineer's Report for May 2009 was presented to the Board. The following tasks were mentioned.

- Leachate Tank Replacement work is still in progress.
- The Cell D3 Landfill Gas System Expansion is currently scheduled to begin in June 2009.
- Monitoring Well Installation Project near EW 312 has been added to the list.
- Various surveys were performed during this report period by Ludgate Engineering Corporation.
- A proposal was requested from SCS Engineers for Construction Phase Engineering (office support) for the Cell D3 Landfill Gas System Expansion. Maintaining the intent of the design engineer provides the Authority with a higher level of assurance that the construction work will conform to the project requirements. The design engineer will also function as the initial interpreter of the design documents. This practice reduces the potential for claims, disputes and other matters relating to the acceptability and performance of the construction work. For these reasons it was recommended that the Authority be represented by the design engineer during the construction phase. Authority Staff will perform the field inspections and prepare the certification report.
- The Monthly status reports from the Authority's other consultants were referenced.
- At the April 23, 2009 Work Session, the Authority Board authorized the implementation of the Drilling Plan for the EW 312 Pyrolysis/Combustion Investigation. Accordingly, three quotations for obtained for the specified drilling services. The lowest cost proposal was received from SCS Field Services in the amount of \$24,038. A purchase order was prepared and issued for the work.
- The requirements of the Authority's Leachate Recirculation Monitoring Plan were reviewed with the Board, including an explanation of the Plan's various tasks and personnel assignments. The Plan requires an Annual Leachate Recirculation Report. Preparation of the Report by an independent third party will provide the Authority with a higher level of assurance that a landfill stability failure will not occur as a result of the ongoing leachate recirculation operation. Outside assistance is also needed to prepare the AUTO CAD drawings that appear in the report. For these reasons, three consulting proposals to prepare the Annual Recirculation Monitoring Report were requested. The lowest cost proposal for this work was submitted by Sanborn, Head and Associates in the amount of \$8,500.

- Preparation of the Minor Permit Modification for the relocation of the existing landfill gas flare station remained in progress during this period.
- Discussions with Geosyntec Consultants concerning their claim about regulatory changes and design enhancements during the preparation of the Area E Application for Permit Modification continued during the period. The areas of discussion were reviewed and several figures were presented. The Consultant's entitlement to additional compensation under the contract was questioned. The Chairman suggested that the Consultant be asked to put the matter in writing for review and consideration.
- The Permit Modification Application for the Area E Expansion was submitted to the PADEP on or about February 26, 2009. PADEP's LMIP Meeting was held on Wednesday, May 13, 2009 at 10:00 A.M. in the Caernarvon Township Municipal Building. PADEP should now begin their review of the documents to determine administrative completeness.

**B. Geosyntec Consultants – Status Report:** The May 19, 2009 Project Status Report from Geosyntec Consultants was presented to the Board. The Report included additional details concerning the matter of out of scope services.

**C. ARM – Status Report:** The May 15, 2009 Status Report from the ARM Group Inc. was presented to the Board.

**D. Keystone Engineering Group – Status Report:** The May 18, 2009 Progress Report from Keystone Engineering Group, Inc. was presented to the Board. Construction photographs of the storage tank work were attached. The contract provided an incentive payment for early completion of T-101. The Contractor, Eastern Environmental Contractors, completed T-101 early and is eligible for an early completion bonus in the amount of \$67,000. It was recommended that the Board amend the original contract amount accordingly. A motion to increase the contract amount by \$67,000 was made by Vince Carosella with a second by Peter Maroletti. The motion passed.

**E. Blazosky Associates – Progress Report:** The May 15, 2009 Progress Report from Blazosky Associates, Inc. was presented to the Board.

**F. Leachate Recirculation Monitoring – Annual Report:** The proposal from Sandborn, Head and Associates (SHA) for Engineering Services to prepare the Annual Leachate Recirculation Monitoring Report was presented to the Board. It was recommended that the Board accept the proposal for the lump sum amount of \$8,500. A motion to accept the proposal was made by William Shirk with a second by Vince Carosella. The motion passed.

**G. Cell D3 LFG System Expansion – Construction Phase Engineering:** The proposal from SCS Engineers for Construction Phase Engineering (office support) on the Cell D3 Landfill Gas System Expansion was presented to the Board. It was recommended that the Board accept the proposal in the amount of \$12,000. A motion to accept the proposal was made by Peter Maroletti with a second by Vince Carosella. The motion passed.

**7. Water Management’s Report. (GAL)**

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

**APRIL HIGHLIGHTS:**

- April 2009 landfill leachate 549,753 gallons (includes gas condensate)

Leachate by area breakdown:

Area C	167,638 gallons
Area B	128,985 gallons
Area D-1	177,272 gallons
Area D-3	55,081 gallons
Granger gas condensate	20,777 gallons

Year to date landfill leachate 1,470,054 gallons

- April 2008 landfill leachate 520,325 gallons
- April 2009 Rainfall 4.90”

**LEACHATE INVENTORY UPDATE:** (As of May 1, 2009)

T-101 Leachate Storage Tank	- 220,000 gallons	capacity – 650,000 gallons
T-115 Leachate Storage Tank	- 0 gallons	capacity – 0 gallons
<u>T-100 Equalization Tank</u>	<u>- 97,000 gallons</u>	<u>capacity – 110,000 gallons</u>
Total Leachate Inventory	- 317,000 gallons	capacity – 760,000 gallons

Total percent of storage utilized - 36%

**LEACHATE COLLECTION SYSTEMS –**

The Leachate collection system is 100% operational.

**RECIRCULATION SYSTEM**

- 214,153 gallons was recirculated during the month of April 2009. Recirculation for the month was into the leachate blankets.

**Recirculation to date: 5/1/2009**

<u>Trench #</u>	<u>Recirculated (gal)</u>	<u>Maximum (gal)</u>	
A	-----	-----	This Trench is closed
B	-----	-----	This Trench is closed
C	1,278,937	1,888,720	
D	1,184,715	1,783,398	
E	1,367,401	2,631,930	
F	2,716,003	3,682,875	
G	2,858,093	5,066,750	
H	1,059,457	5,687,500	
<b>Total</b>	<b>11,588,550 (gal)</b>	<b>21,681,836 (gal)</b>	

Remaining Trench Capacity – 10,093,286 gallons

<u>Blanket #</u>	<u>Recirculated (gal)</u>	<u>Maximum gallons/year</u>
1	93,770	1,250,000
2	94,099	1,250,000
3	81,710	1,250,000
4	44,601	1,250,000
<b>Total</b>	<b>314,180 (gal)</b>	<b>5,000,000 (gal)</b>

**UFRO Research and Development April 09**

Water operations has been involved with investigations to determine the best and most effective means to increase the throughput of the Ultra Filtration Skid and achieve the design flow of 17.5 gpm. The eventual solution of the UF throughput will allow the Reverse Osmosis Skid to operate at its design flow of 10.6 gpm or 15,000 gpd. This design condition will be 5 times the current production rate and will lower the cost per processed gallon considerably. This will also be major progress towards Lanchester's future onsite management of all generated leachate.

The following is the initial leg work moving towards a solution.

- Pre treatment options are being reviewed. Discussions are under way to determine if the best filter media is being utilized.
- An onsite meeting is set up with Tom Pullar, P.E. from the Earth Res Group Inc. for Wednesday 5/27/2009 to discuss a potential solution and options. Our discussion will center on pre treatment.
- The major discussion concerning filter media is being focused on two areas, pore size and surface area. We will be conducting in situ testing of different filter media, primarily multiple layer media.

- UF disposable 7 layer filter bags have been ordered and received. Testing will begin ASAP to determine if this bag design will help with the UF flux rate. The filter media has a smaller pore size of 70 µm as compared to the 100 µm currently being used. This should allow for a less turbid filtrate feed to the UF membranes. The 7 layer design allows for a 7 times greater increase in surface area of the bags.
- Options are being discussed concerning the filter roll media currently being used at the pre treatment skid.
- Ultra Filtration Membranes as applied to leachate filtration.
- After testing it was determined that the authority is using the most suitable UF membrane.

*Recommendation* – At this time I would recommend that the Authority purchase two new UF Membranes of the existing design. The membranes currently in use are the original components and they are potentially compromised. The cost for these UF Membranes is \$4,650.00 ea.

### **LEACHATE TREATMENT PLANT (UFRO SYSTEM)**

- The UFRO Treatment System is currently operational and is performing ok. The UF system is operating at an average of 5.5 gpm and the RO system is operating at an average flow rate of 8.0 gpm. The plant is averaging approximately **1,734 gpd** for the month of April 09.

The RO unit produced – **52,022** gallons of permeate during the month of April 2009

MONTHLY COST ESTIMATE	\$3,229.72	
Monthly Depreciation		\$8,294.27
Monthly Electric	\$1,395.00	
<b>Total</b>	<b>\$4,624.72</b>	
<b>Cost Per Gallon</b>	<b>\$0.09</b>	<b>\$0.25</b>

8. **Compliance Officer's Report (TAD)**

**A. Monthly Activity Report:** Ms. Devine mentioned that the second quarter of ground water monitoring had been completed in early May. Ms. Devine mentioned there were four radiation alarms since the last meeting. Three alarms were for WWTP sludge from North Coventry Municipal Authority. One load was household trash from West Caln Township. All isotopes were I-131. All loads were landfilled. Ms. Devine mentioned that she talked with Dave Allard at PADEP Bureau of Radiation regarding the loads from North Coventry. Bureau of Radiation personnel visited North Coventry's WWTP and checked the entire site for radiation. The only radiation was found in the sludge load in the roll-off container. It was confirmed it was I-131. It was recommended that North Coventry purchase a hand held meter so they can check the loads before sending them for disposal at the landfill. Ms. Devine also mentioned there were a number of groups at the landfill for tours in the past month. Ms. Devine also mentioned that in response to a SWANA request, she forwarded some site stack test and gas test results to the EPA for consideration in development of AP-42 default values for landfill gas constituents

9. **Recycling Coordinator's Report (NJF)**

**A. Monthly Activity Report:** Ms. Fromnick provided a list of the meetings and events attended during the past month. An HHW Event planning and site visit was conducted at the new CAT Brandywine Campus. In addition to several school presentations, Ms. Fromnick was a speaker at the Downingtown Area Chamber of Commerce, Chaired the Chester County Chamber Recycling Committee and the County Office Recycling Committee and ran the Authority's Electronics and Shredding Event and the County HHW Event. The Electronics and Shredding Event collected 23,972 pounds of electronic waste and 7,500 pounds of paper. Of the 314 attending vehicles, 38% were from Caenarvon/Lancaster County. Also noted were the many hours and efforts contributed by the master composter volunteers during Earth Month.

**B. Correspondence: In:** Requested signed HHW Intergovernmental Agreements were received for distribution. Also received were Downingtown Chamber and Lionville Middle School thank you letters and the CAT Pickering HHW Event Record of Operations and invoice.

**Correspondence – Out:** Fromnick submitted the 2008 Recycling Coordinators grant application, 2008 municipal reports for verification, municipal enforcement class schedules and registrations, the OJR HHW press release, Chamber meeting minutes and paint disposal instruction flyers to all environmental groups.

**C. Projects:** Of the projects listed, it was noted that through our efforts the County received 5 free, recycled plastic park benches from Giant Foods and work continues on the development of a new Process and Marketing Contract.

10. **Business Manager's Report.** (JMG)

**A. April 2009 Monthly Tonnage Report:** Mr. Gorney presented the Tonnage Report for April 2009, indicating that the tonnage of 25,331.87 was 9.6% under budget, and was 10.5% lower than April 2008.

**B. April 2009 Accounts Receivable:** Mr. Gorney stated that receivables day sales outstanding increased from 34.54 days in March 2009 to 35.11 days in April 2009. Mr. Gorney stated that the increase was due to slower payments from several accounts.

**C. April 2009 Financial Statement:** Mr. Gorney presented the Financials for April 2009 stating that we had a gain of \$392,704 for the month. Retained Earnings are at \$37,291,316. The funds invested totaled \$31,339,239.95 at month end. The interest earned in April 2009 was at a rate of 1.96% down from the 2.08% in March 2009. The rate decreased due to the rollover of funds to lower interest rates. Mr. Marroletti made a motion to accept the April 2009 Financials as presented; Mr. Carosella seconded the motion. The motion was carried by a unanimous vote.

**D. April 2009 Vendor Check Register Report:** The Vendor Check Register was presented to the Board. The checks for April 2009 totaled \$1,255,664.83. Mr. Shirk made a motion to accept the April 2009 Check Register as presented; Mr. Renzulli seconded the motion. The motion was carried by a unanimous vote.

**E. Large Dollar Check Approvals:** Mr. Gorney presented the May 2009 Large Dollar invoices totaling \$362,349.74 consisting of the attached schedule 10E. Mr. Shirk made a motion to accept the Large Dollar Invoices as presented; Mr. Renzulli seconded the motion. The motion was carried by a unanimous vote.

**F. Collateral Bond Rollover:** Mr. Gorney presented the rollover of the \$825,000.00 of Treasury Notes maturing on 6/30/09. Mr. Marroletti made a motion to accept the Collateral Bond Rollover as presented; Mr. Carosella seconded the motion. The motion was carried with a unanimous vote.

The meeting was adjourned at 7:32.

Prepared by,  
Peggy A. Cunius