

CHESTER COUNTY SOLID WASTE AUTHORITY

Work Session — Lanchester

July 23, 2009

1. **Call to Order:** Bob Schoenberger, Chairman, called the July 23, 2009 *Work Session* Meeting of the Chester County Solid Waste Authority to order at 5:33 p.m.

Authority Members Present

Bob Schoenberger
Ramsey G. DiLibero
Peter Marroletti
William H. Shirk

Authority Members Absent

Dante W. Renzulli, Jr. Esquire
Peter Knipe
Vince Carosella

Management and Staff Present

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

Solicitor

James McErlane, Esquire

2. **Meeting Minutes.** Will be approved next week.
3. **Chairman's Announcements.**

The Chairman had no announcements.

4. **Executive Director's Report.**

A. Monthly Activity Report: Mr. Watts said he would like to discuss a few items contained in his monthly report in Section 4A. The first item Mr. Watts discussed was an inquiry from Honey Brook Sewer Authority to see if we could dispose of some effluent for them into the landfill. Mr. Watts has responded to them that would be unlikely because we are not looking to add extra water to the landfills at this time and the PADEP does not allow adding water to the landfills that are not of the current design. Mr. Watts said the Scenic Overlook was host to a Coworkout Event recently. These events are organized by a Chester County company to promote working in the outdoors in unusual settings. The group set up a wireless internet connection and most of the half dozen or so participants spent some of their time working on laptop computers or looking at the scenery. Mr. Watts said he was contacted recently by the owner of a house on Reservoir Road that he is planning to sell his house at auction in the fall and he is covered by the Property Value Protection Plan. Mr. Watts said we currently have six houses rented, one being readied for rental and one on Churchtown Road listed for sale. The only other property CCSWA owns will be discussed later concerning improving the small earth dam on the property.

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. News Articles: This section contained a copy of a *Tri County Record* article on CCSWA allowing free disposal of waste from a fire at a thrift store in Honey Brook. In this section is a recent article on the state legislature taking over a billion dollars over the years from environmental funds to balance the budget.

D. PADEP Press Releases: This section contains releases concerning area and volume expansions at two landfills.

E. Act 90 Annual Report: This section contained a copy of a report by PADEP indicating they had 7,291 applications for waste transporter permits in 2008. They also said that hauler violations continue to decrease.

F. Waste Volume Information: This section contains a report from OTR Global that indicates volumes of waste in the US remain down but show signs of stabilizing.

G. Thank You Letters: This section contained a copy of a letters received for our recent donation to the Twin Valley Recreation Association and the Twin Valley YMCA.

H. Renewable Energy Solutions: This section contains an unsolicited PowerPoint presentation to CCSWA on developing a 3MW Wind Power Project. They suggest the first step is to erect a 200 foot tall metrological tower to gather data for one year. The cost of the tower and instruments was estimated to be about \$83,000. They believe the payback from the wind turbines to be in the 6-10 year range.

I. Interstate Waste Systems: Three of their managers will give a presentation next week.

J. Waste Management: This section contained a copy of recent emails that have been exchanged with PADEP over the Chester County Waste Plan and Waste Management, Inc.

K. Granger Amendments: This section contains the revised version of First Amendment to the Land License Agreement. Mr. Watts said he believed all the changes the Board asked for last month were in the revised agreement. Mr. Watts said Granger was not finished making the requested changes to the Second Amendment to the Landfill Gas Agreement and we might see it at next week's meeting.

5. Operations/Site Development Report:

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 2650 SCFM. The generator is currently down for re-piping in preparation for the second engine.

Weather

We received 5.49" of rainfall in the month of June.

Compost Site

We are accepting leaves, skids, and vegetative wood waste.

Miscellaneous Site Work

Page 2 has a partial list of the routine work for the month. In addition we have built several pads in cell D-3 where new gas extraction well will be installed.

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.

We started select waste placement in Cell D-2 Tuesday July 21st. We anticipate it will take approximate three weeks of select waste placement before all waste can go to the new cell.

Upcoming Projects/Activities

A new gas well will be installed to replace EW-312.

Install recirculation lines and 10 new extraction wells in Cell D-3.

Landfill Inspections

John Pollock (PADEP) was on site June 24, 2009 for an inspection. No inspection written report is available at this time. Joe Cutter (Caernarvon Township Inspectors) was also on site several times during the month. Joe has not given us a written report.

B. Recommendation For Pond Rehabilitation at 279 Boot Jack Road: The Authority Staff reported a concern with the pond on Authority property at 279 Boot Jack Road. The pond's spillway may not perform properly during a major storm event. The existing stand/overflow pipe is in a deteriorated condition, there is no emergency spillway and water has topped the pond's berm in the past (before purchase).

Owen Esterly, Facility Engineer has been in contact with PADEP concerning this matter. PADEP has determined the area downstream from the pond to be a wetland. If the work can be performed without wetland encroachment we would only need a letter of approval to proceed from PADEP.

A work plan has been developed by CCSWA Staff and Brubacher Excavating to rehabilitate the pond without encroachment into the wetland. Brubacher Excavating has estimated the equipment rental cost and performing the work through the rental rate sheet previously awarded by the Authority to be \$15,836.00. CCSWA would purchase all of the material at an estimated cost of \$2,164.00 making the total estimated cost of the project \$18,000.00.

Vince Pompo has stated he has no problem proceeding with the project using this approach.

After discussion a motion to proceed with the project after receiving PADEP approval is received was made by Mr. Ramsey DiLibero and seconded Peter Marroletti. The motion carried by a unanimous vote.

6. Facility Engineer's Report:

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

- Ludgate Engineering Corporation performed various surveys during this report period including: construction surveying for the Cell D3 Landfill Gas System Expansion; survey of current LFG extraction well elevations in Area C; drafting assistance for the Flare Station Relocation Permit Drawings; and completion of the 2008 Annual PADEP Report Survey.
- During this report period, SCS Engineers provided Construction Phase Engineering (office support) Services on the Cell D3 Landfill Gas System Expansion including: the review of submittals; responding to requests for information. SCS also developed a construction drawing and well schedule for the addition landfill gas extraction wells in Area C.
- The Annual Leachate Recirculation Monitoring Report for 2008 was completed by Sanborn, Head and Associates during this period. During this period: the Report was reviewed by Staff. Comments were compiled and issued to the Consultant.
- The Authority Staff is performing field inspection and Construction Quality assurance functions on the Cell D3 Landfill Gas System Expansion. Construction progress was limited to mobilization and preparation tasks. The drilling subcontractor has not yet arrived on site.
- Adding a fifth monitoring well near the original location of EW-312 is to be completed after the drilling subcontractor arrives on site. Monitoring results were received and reviewed by Staff. Limited vacuum was introduced to six existing Area C LFG extraction wells in order to expected landfill gas.
- The Minor Permit Modification for the relocation of the existing landfill gas flare station was sent to PADEP on July 8, 2009.
- On June 30, 2009 I sent a letter to Mr. Joel Sipe of PADEP, Division of Dam Safety concerning the use of slip lining methods to rehabilitate the existing outfall pipe and avoid an encroachment into wetlands. I am currently awaiting a response to my letter. I will telephone Mr. Sipe next week to check on the status of his review.

- On or about June 18, 2009 four letters were received from Geosyntec Consultants concerning request for additional compensation. The letters remain under review. A copy of the July 20, 2009 response letter was presented to the Board. The letter describes the Consultants lack of actual labor and expense records.
- The remainder of the July 2009 Engineers Report was presented to the Board.

B. Geosyntec Consultants – Status Report: The July 21, 2009 Project Status Report from Geosyntec Consultants was presented to the Board. PADEP has scheduled a public meeting for September 1, 2009 concerning the Area E Permit Application.

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

D. Keystone Engineering Group – Status Report: The July 16, 2009 Monthly Progress Report from Keystone Engineering Group, Inc. was presented to the Board. We are near the completion of the Storage Tank project.

E. Storage Tank Replacement – Final Change Order: Change Order No. 1 for the Leachate Storage Tank Replacement Contract was presented to the Board. This change order addresses contract additions and deletions such as: addition of the early completion incentive for T-115; the sludge disposal deduction; the stone access ramp deduction; the allowance deduction; and the contingency deduction. Change Order No. 1 results in an \$8,815 increase to the contract amount. Approval of Change Order No. 1 was recommended by Peter Marroletti with a second by Ramsey DiLibero. The motion passed.

F. Blazosky Associates – Status Report: The July 17, 2009 Progress Report from Blazosky Associates, Inc. was presented to the Board.

G. Access Roadway – Pavement Repairs: The proposed improvements to the access roadway were discussed with the Board. A preliminary budget and drawing were presented. Consideration was requested for construction of these improvements before the end of the year. The Board directed that bids for the work be obtained.

7. Water Management's Report:

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

JUNE HIGHLIGHTS:

- June 2009 landfill leachate 555,165 gallons (includes gas condensate)

Leachate by area breakdown:

Area C	136,186 gallons
Area B	153,196 gallons
Area D-1	196,276 gallons
Area D-3	49,444 gallons
Granger gas condensate	20,063 gallons

Year to date landfill leachate 2,656,611 gallons

- June 2008 landfill leachate 403,235 gallons
- June 2009 Rainfall 5.49"

LEACHATE INVENTORY UPDATE: (As of July 1, 2009)

T-101 Leachate Storage Tank	- 220,000 gallons	capacity – 850,000 gallons
T-115 Leachate Storage Tank	- 0 gallons	capacity – 0 gallons
<u>T-100 Equalization Tank</u>	<u>- 105,000 gallons</u>	<u>capacity – 110,000 gallons</u>
Total Leachate Inventory	- 325,000 gallons	capacity – 960,000 gallons

Total percent of storage utilized - 33.8%

LEACHATE COLLECTION SYSTEMS –

The Leachate collection system is 100% operational.

RECIRCULATION SYSTEM

- 274,100 gallons was recirculated during the month of June 2009. Recirculation for the month was into the leachate blankets.

Recirculation to date: 7/1/2009

Trench #	Recirculated (gal)	Maximum (gal)
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
Total	11,588,550 (gal)	21,681,836 (gal)

Remaining Trench Capacity – 10,093,286 gallons

<u>Blanket #</u>	<u>Recirculated (gal)</u>	<u>Maximum gallons/year</u>
1	242,353	1,250,000
2	228,133	1,250,000
3	215,611	1,250,000
4	176,200	1,250,000
Total	862,297 (gal)	5,000,000 (gal)

UFRO Research and Development June 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 should lower the cost per processed gallon considerably. This will also be major progress towards Lanchester's future onsite management of all generated leachate.

- A Purchase Order in the amount of \$3500.00 was issued to Thomas Pullar, P.E. with The EarthRes Group on 6/22/2009 for consulting services related to the UFRO Treatment Plant through put improvements.
- Thomas Pullar, P.E. from the EarthRes Group and Peter Hutwelker Senior Technician with Environmental Systems & Equipment Services were on site 6/2/2009 and began the initial investigation. The two spent most of the day on site reviewing records and understanding the process.
- Peter Hutwelker took a sample of leachate after the gravity bed filter and was of the opinion that thin wall UV treatment may be possible.
- The EarthRes Group is also exploring the option of chlorination followed by de-chlorination ahead of the UF unit along with the use of a biocide.
- Also on site for a visit and tour of our treatment plant was Patrick Stanford Vice President of Engineering with ROCHEM Membrane Systems and Bernie Reider Northern Regional Manager for ROECHEM. Patrick was very knowledgeable and offered his expertise and opinion whenever needed.

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 6.2 gpm and the RO system is operating at an average flow rate of 8.0 gpm. The plant is averaging approximately **1,785 gpd** for the month of June 09.

- New UF membranes were installed in early July and this has increased the supply of filtrate to the RO unit by double. Consumable components, bag filters and RO cartridges have decreased from two change outs a week to about once a month.

The RO unit produced – **59,030** gallons of permeate during the month of June 2009

MONTHLY COST ESTIMATE	\$3,952.42	
Monthly Deprecation		\$8,294.27
Monthly Electric	\$1,395.00	
Total	\$5,347.42	
Cost Per Gallon	\$0.10	\$0.25

GROUND WATER INVENTORY UPDATE: 7/1/2009

Ground Water Storage Pond – 681,824 gallons 85.2 % of capacity

Total Ground Water received for June 2009 – 652,395 gallons

NPDES PERMIT COMPLIANCE-

NPDES PERMIT DMR PA 0082791 for Outfall 001 CONESTOGA RIVER dated December 2003 – The NPDES DMR Outfall 001, 100 and Outfall 101 for June 2009 will report full compliance with the new 2009 NPDES Permit. All Monitored Parameters were below required discharge limits.

0 gallons from the effluent equalization tank (Outfall 100) of treated permeate and 0 gallons of groundwater (Outfall 101) was discharged to (Outfall 001). A total of 0 gallons was discharged to the Conestoga River during June 2009.

8. Compliance Officer’s Report:

A. Monthly Activity Report: Ms. Devine mentioned that quarterly ground water monitoring continues. There were no radiation alarms since the last meeting. Ms. Devine mentioned that results of semi-annual storm water samples had been submitted to the DEP. Ms. Devine stated that she checked water levels in onsite wells, and conducted perimeter gas monitoring since the last meeting. There were no issues to report. Ms. Devine also informed the Board that the Annual Operations Report was submitted to the DEP by June 30th as required. Lastly Ms. Devine informed the Board that she submitted an application to DVIT for a risk control grant in the amount of \$ 3000. The grant will partially reimburse the Authority for the cost of a fire suppression system that was installed in a 966 loader.

9. Recycling Coordinator's Report:

A. Monthly Activity Report: Ms. Fromnick provided a list of the meetings and events attended during the past month. Ms. Fromnick noted the first Friday HHW event collected over 52 thousand pounds of hazardous material, almost half of which was computers and TV's and serviced over 425 vehicles. The SWA also hosted two well attended USDA funded recycling workshops. Due to Buck's County administrative postponements, the City of Philadelphia will release the 2010-2012 HHW RFP. A pre-bid meeting is scheduled for August.

B. Correspondence: In: Of particular importance, was the DEP approval announcement of the 2008 recycling coordinators grant reimbursement.

Out: Mentioned of particular importance was the Process and Marketing of Recyclables invitation to bid and the mercury thermostat collection program. Information was sent to all municipalities and heating and air-conditioning companies. Ms. Fromnick also submitted the CCSWA May Electronics Collection Act 190 Reimbursement Application.

C. Projects: Three Chester County Waste Watcher winners will be recognized at the PROP Conference in Scranton: CAT Pickering Campus, Siemens Medical Solutions USA, Inc. and Phoenixville Borough. Local recognition is also being arranged. The 2006 and 2007 Chester County Recycling Performance Grant awards were provided.

9. Business Manager's Report.

A. June 2009 Monthly Tonnage Report: Mr. Gorney presented the Tonnage Report for June 2009, indicating that the tonnage of 27,513.03 was 1.1% under budget and was higher than June 2008 by 2.3%.

B. June 2009 Accounts Receivable: Mr. Gorney stated that receivables day sales outstanding increased from 33.48 days in May 2009 to 34.90 days in June 2009. Mr. Gorney stated that the decrease was due to faster payments from several accounts.

C. June 2009 Financial Statement: Mr. Gorney presented the Financials for June 2009 stating that we had a gain of \$448,065 for the month. Retained Earnings are at \$38,195,065. The funds invested totaled \$33,005,774.70 at month end. The interest earned in June 2009 was at a rate of 1.85% down from the 1.89% in April 2009. The rate decreased due to the rollover of funds to lower interest rates.

D. June 2009 Vendor Check Register Report: The Vendor Check Register was presented to the Board. The checks for June 2009 totaled \$499,496.86.

E. Large Dollar Check Approvals: Mr. Gorney presented the June 2009 Large Dollar invoices totaling \$311,646.62 consisting of the attached schedule 10E. Mr. DiLibero made a motion to accept the Large Dollar Invoices as presented; Mr. Shirk seconded the motion. The motion was carried by a unanimous vote.

F. Act 101 – 2nd Quarter 2009: Mr. Gorney presented the 2nd Quarter 2009 Act101Payment for July 2009 totaling \$796,835.96 consisting of the attached schedule 10F. Mr. DiLibero made a motion to accept the 2nd quarter 2009 Act101 Payment for July 2009 as presented; Mr. Marroletti seconded the motion. The motion was carried with a unanimous vote.

G. Collateral Bond Rollover - \$3,444,000.00: Mr. Gorney presented the rollover of the \$3,444,000.00 of Treasury Notes maturing on 8/15/09. Mr. DiLibero made a motion to accept the Collateral Bond Rollover as presented; Mr. Marroletti seconded the motion. The motion was carried with a unanimous vote.

There being no further business, the meeting was adjourned at 7:33 p.m.

Prepared by,

Peggy A. Cunius