



# pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

NORTHEAST REGIONAL OFFICE

RECEIVED

AUG - 4 2011

August 3, 2011

By         

Mr. Greg Chrin  
Chrin Brothers, Inc.  
635 Industrial Drive  
Easton, PA 18042

Re: Engineer's Monthly Status Report  
Chrin Brothers Sanitary Landfill, Inc.  
Williams Township, Northampton County  
Permit No. 100022

*George  
Fred  
Sally  
Rick  
Joe Black  
Landscape  
Advisory*

Dear Mr. Chrin:

This Engineer's Status Report is for the month of June. This Report is informational only, without deadlines, and a response is required only if objections are taken to the items mentioned. Our monthly meeting was held at the Chrin offices on July 21, 2011.

## A. Pending Permit Applications:

1. Major Permit Modification to expand permit boundary – Chrin's response to DEP's technical deficiency letter was received on June 23. Their letter included responses to the November 2, 2010, letter from Martin and Martin Incorporated (MMI) on behalf of Williams Township. Their response is under review.
2. Minor Permit Modification for MSE Berm at Stage 8 – Approval of this modification is pending. A presentation by Craig Bell of Strata Systems was given today during our meeting. The modification is now under management review.
3. A Form 37 Construction Certification for Stage 7 Protective Cover Increment was received on July 18. Approval was issued on July 27.

## B. Construction Schedule:

1. Working face is currently in Stages 6 and 7, Cells E-4 through E-6. Stages 1, 4, 3C and 5 are also available but are not used at this time.
2. Stage 6-2 construction is under way through September. Stage 6-2 is on the northern edge of Stage 6 where it meets Stage 8. Liner construction for this stage is planned for September. Stormwater from Stage 8 will be handled in Stage 6-2 in the "bowl" area.

3. Liner stone increments in Stage 7 were begun on June 27.
4. Stage 8 pre-construction is continuing. Building 501 demolition is still underway.
5. Temporary cap installation for Zone C was completed on June 24.

**C. Groundwater:**

1. Monitoring 14 groundwater wells and 3 abatement wells.
2. Third quarter sampling (annual) was conducted on July 12, 13, and 14 by Bharat Bham out of the Bethlehem office.

**D. Gas Management:**

1. Total number of landfill gas wells: 122 vertical, 53 horizontal and 17 leachate cleanouts for a total of 192 gas extraction points. No new wells are being added at this time.
2. As of July 21, Flare 3 was operating at 881 scfm and Flare 4 was not operating. Flow to PPL was 1,070 scfm.
3. The landfill gas-to-energy power plant in the Glendon Business Park has been operational since June 6. An official dedication ceremony was held on July 27.

**E. Leachate Management:**

Average daily flow of 40,077 gallons/day was higher than normal due to higher May rainfall and the completion of an additional 1,300 feet of tie-ins.

**F. Site Observations:**

1. Litter – No issues observed.
2. Odor – no offsite odors were detected at the time of this meeting and site tour.
3. Daily cover – no issues observed.
4. Intermediate cover – no issues observed.

**G. Miscellaneous:**

1. A Phase I Investigation Work Plan for the eastern and southern expansion was submitted to DEP in February, 2011. The proposed expansion will add approximately 20 acres to the existing disposal footprint. The Work Plan describes site reconnaissance, a drilling program (five new monitoring wells and one exploratory piezometer), groundwater elevation measurements and groundwater sampling. The plan is under review.
2. Enclosed as part of this Report is a monthly Engineer's Report Summary from Chrin Landfill which includes site operations, radiation monitoring, truck safety, leachate management, and report submittals.

If you have any questions concerning this report, please contact me.

Sincerely,



Susan E. French  
Environmental Engineering Specialist  
Waste Management Program

Enclosures

cc: Mr. Ellis Boury/CEC Engineering (w/enc.)  
Mr. Scott Brown/Hanover Engineering, Inc. (w/enc.)  
Ms. Deborah Patterson, Williams Township



**CHRIN BROTHERS SANITARY LANDFILL  
ENGINEER'S REPORT SUMMARY  
FOR June 2011**

Date: July 21, 2011

**1. Site Operations:**

a. Average Daily Permitted Volume	<u>1500 Tons</u>	Tons
b. Maximum Daily Permitted Volume	<u>2000 Tons</u>	Tons
c. Permitted Area	<u>108</u>	Acres
d. Permitted Disposal Area	<u>73</u>	Acres
e. Number of Capped Acres	<u>26.4</u>	Acres
f. Number of Temporary Capped Acres	<u>19.7<sup>1</sup></u>	Acres
g. Number of Acres Constructed	<u>70.49</u>	Acres

**2. Radiation Monitoring:**

a. Number of Trucks that Tripped the Radiation Meter	<u>1*</u>
b. Number of Trucks on Hold or Rejected	<u>0</u>

\*Driver had a recent medical test

**3. Truck Safety & Overweight's:**

a. Number of Overweight Trucks	<u>25</u>
b. Number of Trucks Rejected Due to Overweight	<u>0</u>

**4. Leachate Management:**

a. Total Leachate Flow from Combination Sumps/Gravity	<u>1,262,317<sup>2</sup></u>	Gallons
b. Depth Levels	<u>Normal</u>	
c. Leachate Detection/Witness Zone Flow:		
i. WZ5	<u>5.1<sup>2</sup></u>	g/a/d
ii. WZ6	<u>2.7<sup>2</sup></u>	g/a/d
d. Average Daily Flow	<u>40,077<sup>2</sup></u>	Gallons/Day
e. Leachate Hauled Off Site	<u>0</u>	Gallons

**5. Lechate Storage:**

a. Total Influent Storage Capacity	<u>1,306,000</u>	Gallons
b. 25% Influent Storage Capacity	<u>326,500</u>	Gallons
c. Current Wastewater Stored	<u>0</u>	Gallons

**6. Reports Submitted**

a. Form 19 Groundwater Report	<u>6/2/2010</u>
b. Quarterly Progress Report	<u>7/18,2011</u>
c. 2011 Title V Annual Operating Admin fee	<u>6/27/2011</u>
d. May Temp Cap Report	<u>6/8/2011</u>
e. Groundwater Treatment Monthly Report	<u>6/1/2011</u>

<sup>1</sup> This includes 13.2 acres of temporary cap, and 6.5 acres of raintarp.

<sup>2</sup> Note: Chrin completed installation of approximately 6.69 acres of liner open with approximately 1,300 feet of open tie-in's which caused an increase in the monthly flow. May also had above normal rainflows which resulted in the increased leachate flow.



**Chrin Brothers, Inc. Sanitary Landfill  
Twelve Month Tentative Construction Schedule  
From July 2011**

**Pending Permit Application or Permit Actions:**

1. Working Face:
  - Filling Stages 6 & 7, Cells E-4 through E-6 and Stage 1. Stage 4, Stage 3C, and Stage 5 are also available.
2. New Entrance and Scale Location Major Permit Modification
  - Modification Submitted on August 12, 2010
  - Public Meeting held by DEP on March 1, 2011
  - Comments Received on May 25, 2011
  - Comment/Response to be Submitted the Week of June 20, 2011
3. MSE Berm Minor Permit Modification (Stage 8)
  - Modification submitted on December 22, 2010
4. Phase I Investigation Work Plan
  - Submitted on February 5, 2011
5. Temporary Cap "Area C"
  - Installation completed on June 24, 2011
  - No Further Actions Required
6. Stage 7 Protective Cover Increment
  - Construction Completed on July 6, 2011
  - Certification Submitted on July 15, 2011

**Upcoming Projects:**

June 2011 – Temporary Cap "Area C"  
July 2011 – Stage 7 Highwall  
July to September 2011 – Stage 6-2 Construction  
September 2011 – Stage 6-2 Liner Construction  
Ongoing – Landfill Gas to Energy Construction  
Ongoing – Stage 8 Pre-Construction