

*Mark
Ray
George
Rick
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Ron
LAC*

August 22, 2016

Chrin Brothers Sanitary Landfill
c/o Mr. Greg Chrin
1225 Industrial Drive
Easton, PA 18042

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

Dear Mr. Chrin:

This Engineer's Status Report is for the month of July. 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 Thursday, August 18.

A. Pending Permit Applications:

1. A minor permit modification was received on September 30, 2014, to reconstruct Stages 3D and 3E and is under review.
2. A major permit modification for the eastern site expansion was received on November 9, 2015 and is under review.
3. A Form 37 construction certification for Stage 8, Increment 3, construction was received on June 30 and was approved on August 2.

B. Construction Schedule:

1. Working face is currently in Stages 4 and 5, Cells E1 to E6, and Stage 8, Increment 3 (special waste). Average amount of waste accepted is approximately 800 to 900 tons/day.
2. Hydroseeding on slopes behind the 501 maintenance building was done on July 16.
3. Work on extending the MSE berm at Stage 8 is on schedule to start on or about September 1. Stormwater channels, gas and leachate piping under the next section of wall (especially in and around P.S. 5) are completed. A new leachate valve vault is complete.

C. Groundwater:

1. The monitoring plan includes 18 groundwater wells and 3 abatement wells.

D. Gas Management:

1. At the time of our meeting, Flare 3 was operating at 807 scfm. Flares 1 and 4 were not operating. Flow to PPL was 1066 scfm.
2. There are currently 145 vertical wells, 16 horizontal collectors, and 50 leachate cleanouts/perimeter drains.
3. Construction to upgrade to a larger (10 inch) header at the eastern end of the landfill, Stage 7 area is complete.

E. Leachate Management:

1. Total leachate flow from the landfill was 1,037,618 gallons for July, and average daily flow was 33,472 gallons/day. All of the leachate flowed directly to the local wastewater treatment plant.
2. The PS-6 secondary flow, from the witness zone pump, was 279,000 gallons for July. Approximately 8,704 gallons of leachate were pumped in July from the three vertical pumps (PS-6R).
3. All flows from PS-6 and PS-6R went to PS-1.

F. Site Observations:

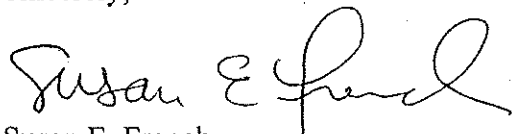
1. Litter – No issues observed.
2. Odor – No issues observed.
3. Daily cover – No issues observed.
4. Intermediate cover – No issues observed.
5. Posi-Shell[®] Areas – No issues observed.
6. Stormwater Controls – No issues observed.
7. Waste Removal Operations – Work continues in the slide area. Pace of waste removal is about 1,200 to 1,400 CY/day. One excavator and five trucks were being used during the time of our visit. Waste from the slide area is being disposed in Stages 4 and 5 on the back side of the landfill, with some going into Stage 8. Approximate total waste excavation/ relocation figures in the slide area as of the July 30 topographic survey are:
 - Phase I – Approximately 120,100 CY (100%+ complete)(no change)
 - Phase II – Approximately 41,141 CY (96% complete)(no change)
 - Phase III – Approximately 217,000 CY (97% complete)
 - Phase IV – Approximately 50,760 CY (96% complete)(no change)
 - Phase V – Approximately 144,204 CY (41% complete)For July, about 28,400 CY were removed from Phase III and V areas, above their target volumes of 12,000 to 19,000 CY/month.

G. Miscellaneous:

Enclosed as part of this report is the monthly Engineer's Report Summary from Chrin Landfill for July, which includes site operations, radiation monitoring, truck safety, leachate management, and report submittals.

If you have any questions or comments concerning this report, please contact me at (570) 826-2064.

Sincerely,



Susan E. French
Waste Management Program

Enclosure

cc: Tom McMonigle, P.E., Chrin Landfill (w/enclosure)
Jan Hutwelker, P.E., EarthRes Group (w/enclosure)
Ms. Jennifer Smethers, Williams Township Manager (w/enclosure)
Mr. Rich Adams, Williams Township (w/enclosure)
Mr. Ronald Madison, Maser Consulting P.A. (w/enclosure)



CHRIN BROTHERS, INC.

**CHRIN BROTHERS SANITARY LANDFILL
ENGINEER'S REPORT SUMMARY
For July 2016**

Date: August 18, 2016

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>24.5¹</u>	Acres
g. Number of Acres Constructed	<u>71.09²</u>	Acres

2. Radiation Monitoring:

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

3. Truck Safety & Overweight's:

a. Number of Overweight Trucks	<u>44</u>
b. Number of Trucks Rejected Due to Overweight	<u>0</u>

4. Leachate Management:

a. Total Leachate Flow from Combination Sumps/Gravity	<u>1,037,618</u>	Gallons
b. Depth Levels	<u>Normal</u>	
c. Leachate Detection/Witness Zone Flow:		
i. WZ5	<u>10.8</u>	g/a/d
ii. WZ6	<u>NA</u>	g/a/d
d. Average Daily Flow	<u>33,472</u>	Gallons/Day
e. Leachate Hauled Off Site	<u>0</u>	Gallons

5. Leachate 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>10.3</u> ft. = <u>206,000</u>	Gallons

6. Reports Submitted

a. Quarterly Progress Report	<u>Q2 2016 report submitted on July 18, 2016</u>
b. Groundwater Treatment Monthly Report	<u>8/1/2016</u>

¹ This includes 18 acres of temporary cap, 4.8 of which were installed in December, and approximately 6.5 acres of raintarp.

² This includes Stage 6-2's 0.6 acres installed in December.