

April 17, 2023

VIA EMAIL

Mr. David Pannucci, Region Engineer
Bethlehem Landfill Company
2335 Applebutter Road
Bethlehem, PA 18015
email: david.pannucci@wasteconnections.com

Re: Bethlehem Landfill Company (BLC)
Northern Realignment
Application# 100020-A203
APS#1033510, AUTH#1345418
And
Permit Renewal
Application# 100020-A221
APS#1062023, AUTH#1393755
Lower Saucon Township, Northampton County

Dear Mr. Pannucci:

Your application for a major permit modification for the Northern Realignment and your permit renewal application are hereby approved. This approval is based on the information in the application entitled "Northern Realignment Major Modification" received by the Department on December 14, 2020. Supplemental information was received on the following dates: February 18, 2021, February 19, 2021, November 9, 2021, February 25, 2021, August 22, 2022, January 23, 2023, February 21, 2023, and March 15, 2023 and the permit renewal application received on April 25, 2022.

Enclosed as part of this approval is a permit modification Form 13-A. Any conditions stated on the Form 13-A modifies and replaces permit conditions regarding your operating permit. All other items and conditions from your permit shall remain in force and effect.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa. C.S., Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717-787-3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800-654-5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in Braille or on audiotape from the Secretary to the Board at 717-787-3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.

IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717-787-3483) FOR MORE INFORMATION.

If you have any questions concerning this permit modification, please contact me at (570) 826-2201.

Sincerely,

Roger Bellas

Roger Bellas
Environmental Program Manager
Waste Management Program

Enclosure: Form 13-A

cc: Kevin Bodner, Martin and Martin, Inc. (via email: knbodner@yahoo.com)
Lower Saucon Township (via email: manager@lowersaucontownship.org)
Northampton County Council (via email: lheffner@northamptoncounty.org)
Lehigh Valley Planning Commission (via email: SRockwell@lvpc.org)

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

FORM NO. 13-A
MODIFICATION TO SOLID WASTE DISPOSAL AND/OR PROCESSING PERMIT

Under the provisions of Act 97, the Solid Waste Management Act of July 7, 1980, Solid Waste Permit
Number 100020 issued on (date original permit was issued) April 16, 1990 to
(permittee) Bethlehem Landfill Company (BLC)
(address) 2335 Applebutter Road
Bethlehem, PA 18015

is hereby modified as follows:

1. This permit modification is being issued pursuant to the Pennsylvania Solid Waste Management Act of July 7, 1980, and the Municipal Waste Management Regulations effective September 14, 2002.
2. This permit modification authorizes the following:
 - BLC shall be permitted to construct and conduct waste disposal activities in cells NR-1, NR-2 and NR-3 as proposed in the approved application.
 - Cell 4E construction sequencing shall be amended to take place after completion of Cell NR-3.
 - BLC shall be permitted to construct the approximately 3,600 linear foot mechanically stabilized earthen wall as proposed in the approved application.
 - BLC shall be permitted to place a minimum of 12-inches of approved protective cover material within this expansion area.
3. This permit modification is based on the information in the application package received by the Department on December 14, 2020 entitled "Northern Realignment Major Modification". Supplemental information was received on the following dates: February 18, 2021, February 19, 2021, November 9, 2021, February 25, 2021, August 22, 2022, January 23, 2023, February 21, 2023, and March 15, 2023. The application included the following documents:
4. The permit modification application, as prepared by Martin and Martin, Inc., included the following documents:

VOLUME I

1. Form GIF – General Information Form
2. Phase 1 Narrative
3. Form A – Application for Municipal Waste Permit
4. Form B – Professional Certification
5. Form B-1 – Application for Certification
6. Form HW-C – Compliance History
7. Form I – Facility Plan
8. Form 7 – Hydrogeologic Information – supplemental Information
9. Form F – Soils Information
10. Form 3 – Map Requirements
11. Form G(a) – Air Resources Protection – Dust Emissions Estimate and Control Plan

12. Form G(b) – Air Resource Protection – NMOC Emissions Estimate and Control Plan
13. Form 25 – Leachate Management
14. Form K – Gas Management
15. Form 28 – Closure
16. Revised Bonding Calculations
17. Form 46 – Relationship Between Municipal Waste Management Plans and Permits

VOLUME II

18. Form 24 – Liner System Phase II

VOLUME III

19. Form D – Exclusionary Area Criteria/Environmental Assessment Process for Municipal Waste Management Facilities

VOLUME IV

20. Form I – Erosion and Sedimentation Control

5. The information submitted with the renewal application, received on April 25, 2022 was reviewed and considered in this major modification approval.
6. The permittee shall provide to the Department, within 90 days of issuance of this permit modification, additional bond to increase the total to \$17,450,109.
7. This modification allows the permittee to continue operation of this facility per the approved application and the existing terms and conditions of this permit until April 17, 2033.
8. The permittee shall provide to the Department, within 90 days of issuance of this permit modification, an electronic copy of the final comprehensive application, including full sized drawings and revisions in their correct sections. Also, provide 1 reduced set of final drawings as part of this submission.
9. The permittee shall provide in each annual report submitted; a breakdown of the approved benefits realized for this expansion along with a description addressing details for each. The approved benefits are as follows:
 - a. Recycling Drop-off Containers
 - b. Free White Goods Disposal
 - c. Host Fees
 - d. Operating Expenditures
 - e. Capital Expenditures
 - f. Direct Employment
 - g. Emergency Management Services
10. For each partial lift that the permittee does not intend to place additional waste material for six (6) months, intermediate cover must be installed.
11. The permittee shall implement enhanced monitoring and nuisance managements practices as described in their approved Nuisance Minimization and control Plan (NMCP). These enhanced monitoring and nuisance management practices includes amongst other things, the collection of monthly surface emission monitoring (SEM) data, the logging of collected data into mapping software to color code SEM data for evaluation, and monthly evaluation of the data and observations collected during these monthly SEM events to evaluate and assess the effectiveness of the landfill gas collection system. All reports and accompanying memos shall

be sent to the Department as they are completed each month.

12. The permittee shall not begin waste disposal in the approved Northern Realignment expansion area until the renewable natural gas facility, approved by the department on August 11, 2020, is fully operational.
13. The permittee shall not begin waste disposal in the approved Northern Realignment expansion area until all final capping has been completed in the locations noted in the Notice of Violation letter issued by the Department on April 29, 2020.
14. The permittee shall implement a sediment basin cleanout plan for all sediment basins within the permit boundary. The plan shall include the installation of sediment basin cleanout markers in all sediment basins which shall be regularly monitored. If sediment levels reach the designated cleanout level, the sediment basin must be completely cleaned out to restore the original design dimensions within 30 days. All cleanout dates shall be recorded.
15. The permittee shall update and submit to the Department the Groundwater Sampling and Analysis Plan for the landfill for approval. This shall be submitted every five years or sooner if site conditions warrant.
16. Groundwater Monitoring Reports shall include all field logs, Form 19s, Form 50s and Form 52s in the same document and shall be submitted within 60 days of sampling or 15 days after completion of analysis whichever is sooner.
17. Construction of the facility shall be in accordance with the approved landfill sequencing plans. A minor modification application is required to deviate from the approved sequencing plans.
18. The permittee shall submit a construction schedule ten (10) days prior to the commencement of construction. This schedule should be updated as needed to accurately reflect the progress of the construction activities.
19. The permittee shall notify the Department upon commencement and completion of each phase of construction listed below. The completed phase of construction shall be certified using the department's Form 37 – Certification of Facility Construction Activity submitted by a registered Professional Engineer.

The construction certification phases include the following:

- a. Construction of each stage of the Northern Expansion area which includes construction of a new liner system in the following construction segments:
 - i. Construction of subbase;
 - ii. Construction of liner and leachate detection zone;
 - iii. Construction of protective cover and leachate collection system.
- b. Completion of the MSE investigative boring to include the data obtained and supporting analysis of the data verifying the suitability of the subgrade for construction of the MSE wall. The permittee shall enlist the assistance of a qualified geotechnical engineer to estimate construction induced settlement based on the pressures the MSE wall will exert on site soils. The permittee shall not commence construction of the MSE wall without approval via Construction Certification from the Department.

c. Construction of each section of MSE wall.

20. Construction of the MSE wall shall include safety features and structures, including warnings, a permitter fence, and guardrail along the top of the wall.
21. Waste streams with approved Form U's will be considered active as long as the waste stream has been received within 5 years and the generator has submitted the Form 26R with analysis as appropriate. Waste streams that are inactive will require a new Form U to be submitted.
22. A list of active Form U's shall be submitted as part of the permit renewal application.

This modification shall be attached to the existing Solid Waste Permit described above and shall become a part thereof effective on (date) April 17, 2023.

Roger Bellas

FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION