



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

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JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

217/524-3301

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

FEB 03 2023

7011 1150 0001 0857 8889

Zion Landfill, Inc.
Attn: Mr. Mark Bingham
701 Green Bay Road
Zion, Illinois 60099-9564

Re: 0978020002 -- Lake County
Zion Landfill
Permit No. 1995-343-LFM
Modification No. 160
Log No. 2022-423
Expiration Date: May 15, 2027
Permit Landfill 811 File
Permit Approval

Dear Mr. Bingham:

Permit has been granted to Zion Landfill, Inc. (formerly known as Veolia ES Zion Landfill, Inc., and then as Advanced Disposal Services Zion Landfill, Inc.) as owner and operator, approving the development and operation of an existing municipal solid waste and non-hazardous special waste landfill all in accordance with the application and plans prepared by CH2M Hill, Inc. Final plans, specifications, application, and supporting documents, as submitted and approved, shall constitute part of this permit and are identified in the records of the Illinois Environmental Protection Agency (the "Illinois EPA"), Bureau of Land, Division of Land Pollution Control by the permit number designated in the heading above.

Permit No. 1995-343-LFM, issued March 21, 1997 approved:

- a. The Significant Modification of the development and operation of this landfill so as to comply with the applicable requirements of Title 35, Illinois Administrative Code (hereinafter 35 IAC), Subtitle G, Parts 811 through 813, pursuant to 35 IAC, Sections 814.104, 814.301 and 814.302;
- b. The development of a vertical expansion on the existing landfill, and horizontal expansion to the existing permitted waste boundaries. The vertical expansion encompasses approximately 25.7 acres above the existing landfill unit known as BFI Site #2. The waste footprint of the lateral expansion is approximately 71.40 acres east and adjacent to the existing waste boundaries. Thus, completion of the existing unit and

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9511 Harrison Street, Des Plaines, IL 60016 (847) 294-4000
595 S. State Street, Elgin, IL 60123 (847) 608-3131

2309 W. Main Street, Suite 116, Marion, IL 62959 (618) 993-7200
412 SW Washington Street, Suite D, Peoria, IL 61602 (309) 671-3022
4302 N. Main Street, Rockford, IL 61103 (815) 987-7760

approved expansion shall result in a single unit with an approximate area of 131.189 acres within its waste boundaries, with a total facility boundary of approximately 191.7 acres, an "in-place" net disposal capacity of approximately 10.97 million cubic yards, and a maximum final elevation of approximately 850 feet above Mean Sea Level (MSL);

- c. The revised final contours of the existing landfill outside the vertical expansion area as shown on Sheet No.7, entitled "Final Grades" of the application Log No. 1995-343; and
- d. Acceptance of special waste streams without individual special waste stream authorizations, in accordance with the special conditions listed in Part III of this permit.

Notes:

- 1. Modification No. 60 to Permit No. 1995-343-LFM issued September 6, 2007 revised final cover slopes on the plateau of the piggyback section of the landfill by adding to the protective cover thickness (comprising exclusively of clean uncontaminated soils). The new maximum final elevation of the landfill as a result of this modification is approximately 864 feet above MSL; and
- 2. The waste footprint of approved in Permit No. 1995-343-LFM was reduced from 131.189 acres to 127.6 acres in Modification No. 111. As described in addendum dated April 22, 2014 to application Log No. 2011-555 (Modification No. 111) this reduction in the waste footprint was necessitated to accommodate Sedimentation Basin 5 located on the east side of expansion approved in Permit No. 1995-343-LFM.

Modification No. 88 to Permit No. 1995-343-LFM issued June 3, 2011 approved the following:

- a. The vertical expansion of the existing landfill. The vertical expansion encompasses approximately 39 acres above the existing landfill unit referred to as Site 2 Expansion and raises the maximum final elevation from 864 feet above MSL to approximately 930 feet above MSL. The vertical expansion increases the waste disposal capacity by approximately 1,720,000 cubic yards. Based on the current waste acceptance rates of 886,000 tons per year (compacted in place density of 2000 lbs/cubic yard) the vertical expansion will extend the operating life of the landfill by approximately 2 years;
- b. Expansion of facility boundaries from 191.7 acres to 318.5 acres. The lateral extent of the waste boundaries remains unchanged;
- c. Revised final cover design. Specifically, the increase of hydraulic conductivity of the low permeability clay layer from 1×10^{-7} cm/sec to 5×10^{-7} cm/sec;
- d. Revision of gas extraction wells and laterals and header piping to accommodate vertical expansion of the landfill;

- e. Modification of the stormwater management plan to account for the vertical expansion of the landfill;
- f. Revised CQA plan, and
- g. Revised closure and post-closure care plan and cost estimates.

Modification No. 111 to Permit No. 1995-343-LFM issued June 13, 2014 approved the following:

- a. The horizontal and vertical expansion of the existing landfill. The horizontal expansion will expand the existing landfill by approximately 26.5 acres to the east. The vertical expansion will increase the final permitted elevation over approximately 23.7 acres of the currently permitted waste disposal unit. The maximum final elevation of the landfill remains unchanged at 930 feet above MSL. The horizontal and vertical expansion increases the waste disposal capacity by approximately 7,233,000 cubic yards. Based on the current waste acceptance rates of 886,000 tons per year (compacted in place density of 2000 lbs/cubic yard) the horizontal and vertical expansion will extend the operating life by approximately 8 years. The extents of the facility boundaries remain unchanged at 318.5 acres;
- b. The lower waste boundaries in the expanded waste footprint (Cells 9 and 10) are shown on Drawing No. D8 (Leachate Collection System Plan). The lower waste boundaries in Cells 9 and 10 approved by this permit are defined by the top of base grades shown on Drawing No. D8 plus 1-foot for the leachate drainage layer. The final waste contours (top of intermediate cover grades) approved by this permit are shown on Drawing No. D12 entitled 'Top of Waste Grading Plan' and top of final cover grades are shown on Drawing No. D13 entitled 'Final Grading Plan';
- c. Revised CQA Plan;
- d. Revised closure/post-closure care plan and cost estimates; and
- e. Acceptance of wastes at the residential drop-off area in accordance with Condition No. II.30 of this permit.

Modification No. 160 is hereby granted to Zion Landfill, Inc. as owner and operator, allowing modification of an existing municipal solid waste and non-hazardous special waste landfill all in accordance with the application and plans provided in Log No. 2022-423. Application Log No. 2022-423 was prepared, signed, and sealed by Douglas W. Mauntel, P.E., signature dated December 22, 2022, of Andrews Engineering, Inc.

The permit application approved by Modification No. 160 consists of the following document(s):

<u>DOCUMENT</u>	<u>DATED</u>	<u>DATE RECEIVED</u>
Original Application	December 22, 2022	December 22, 2022

Modification No. 160 to Permit No. 1995-343-LFM approves the Construction Acceptance Report for the following landfill gas system elements:

- A. The abandonment of landfill gas pipe.
- B. The raising of caisson gas extraction well EW-183.
- C. The installation of landfill gas pipe and air supply lines.
- D. The installation of geomembrane boots and liner patches.
- E. Other landfill gas system appurtenances.

This permit modification letter does not include a reiteration of the currently applicable special conditions to the permit for this facility because issuance of Modification No. 160 does not entail any changes to the special conditions. The special conditions in Modification No. 160 are identical to the special conditions in Modification No. 159, issued January 30, 2023.

Pursuant to Section 39(a) of Illinois Environmental Protection Act (Act) [415 ILCS 5/39(a)] and 35 IAC, 813.104(b), this permit is issued subject to the development, operating and reporting requirements for non-hazardous waste landfills in 35 IAC, Parts 810 through 814, the standard conditions attached hereto, and the following special conditions. In case of conflict between the permit application and these conditions (both standard and special), the conditions of this permit shall govern.

The applicant may appeal this final decision to the Illinois Pollution Control Board pursuant to Section 40 of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period of time not to exceed 90 days by written notice from the applicant and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the request for an extension, please contact:

Illinois Environmental Protection Agency
Division of Legal Counsel
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276
217/782-5544

For information regarding the filing of an appeal, please contact:

Illinois Pollution Control Board, Clerk
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
312/814-3620

Work required by this permit, your application or the regulations may also be subject to other laws governing professional services, such as the Illinois Professional Land Surveyor Act of 1989, the Professional Engineering Practice Act of 1989, the Professional Geologist Licensing Act, and the Structural Engineering Licensing Act of 1989. This permit does not relieve anyone from compliance with these laws and the regulations adopted pursuant to these laws. All work that falls within the scope and definitions of these laws must be performed in compliance with them. The Illinois EPA may refer any discovered violation of these laws to the appropriate regulating authority.

Sincerely,



Jacqueline M. Cooperider, P.E.
Permit Section Manager
Bureau of Land

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Attachments: Standard Conditions

cc: Mike Adam – Lake County Health Department
Douglas W. Mauntel, P.E. – Andrews Engineering, Inc.

STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS
ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
BUREAU OF LAND

August 22, 2001

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

These standard conditions shall apply to all permits which the Agency issues for construction or development projects which require permits under the Bureau of Land. Special conditions may also be imposed in addition to these standard conditions.

1. Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire two years after date of issuance unless construction or development on this project has started on or prior to that date.
2. The construction or development of facilities covered by this permit shall be done in compliance with applicable provisions of Federal laws and regulations, the Illinois Environmental Protection Act, and Rules and Regulations adopted by the Illinois Pollution Control Board.
3. There shall be no deviations from the approved plans and specifications unless a written request for modification of the project, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.
4. The permittee shall allow any agent duly authorized by the Agency upon the presentation of credentials:
 - a. to enter at reasonable times the permittee's premises where actual or potential effluent, emissions or noise sources are located or where any activity is to be conducted pursuant to this permit.
 - b. to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit.
 - c. to inspect at reasonable times, including during any hours of operation of equipment constructed or operated under this permit, such equipment or monitoring methodology or equipment required to be kept, used, operated, calibrated and maintained under this permit.
 - d. to obtain and remove at reasonable times samples of any discharge or emission of pollutants.

- e. to enter at reasonable times and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.
5. The issuance of this permit:
- a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located;
 - b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities;
 - c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations;
 - d. does not take into consideration or attest to the structural stability of any units or parts of the project;
 - e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.
6. Unless a joint construction/operation permit has been issued, a permit for operating shall be obtained from the Agency before the facility or equipment covered by this permit is placed into operation.
7. These standard conditions shall prevail unless modified by special conditions.
8. The Agency may file a complaint with the Board for modification, suspension or revocation of a permit:
- a. upon discovery that the permit application contained misrepresentations, misinformation, or false statements or that all relevant facts were not disclosed; or
 - b. upon finding that any standard or special conditions have been violated; or
 - c. upon any violation of the Environmental Protection Act or any Rule or Regulation effective thereunder as a result of the construction or development authorized by this permit.

JMC\STANDARD CONDITION