

EXECUTIVE SUMMARY

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This Application is submitted by Zion Landfill, Inc. as owner and operator of the Zion Landfill to demonstrate compliance with Title 35 Illinois Administrative Code (35 Ill. Admin. Code) Part 811, along with all other applicable federal, state, and local regulatory requirements for the proposed Site 2 North Expansion of the Zion Landfill.

Zion Landfill was initially opened in 1976. The current facility consists of two older units that are closed (Site 1 Phase A and Site 1 Phase B) as well as the currently active unit referred to as Site 2 Landfill. The original Site Landfill, referred to as Old Site 2 Landfill, has previously been expanded twice - the Site 2 Landfill Expansion, and the Site 2 East Expansion. Both previous expansions have been permitted by the Illinois Environmental Protection Agency, and the Site 2 Landfill remains open and active.

The Site 2 North Expansion will consist of both a vertical and horizontal expansion. The horizontal expansion will increase the waste unit boundary of the existing Landfill by 62.2 acres and will expand the overall facility boundary 124 acres to the north. The vertical expansion will overlie a portion of the Site 2 East Expansion, vertically expanding over its northeast side slopes. The Site 2 North Expansion will add approximately 12.7 million airspace cubic yards of waste disposal capacity (approximately 14 million tons) to the current permitted Landfill capacity.

The proposed Site 2 North Expansion will enable Zion Landfill, Inc. to continue to meet current and future solid waste needs of the City of Zion, Lake County, and surrounding communities within the proposed service area. Currently the capacity of the Zion Landfill is expected to be depleted during 2028. Based on the capacity of the Expansion and projected annual waste intake, the Site 2 North Expansion is predicted to extend the life of the existing Landfill into 2044.

The proposed Zion Landfill Site 2 North Expansion is detailed within this application. The application includes a comprehensive project narrative and complete geologic and design drawings. All supporting references and calculations are provided in the associated appendices.

Section 1.0 of the application contains the completed IEPA permit application forms, which include the following:

- LPC-PA1
- LPC-PA2
- LPC-PA8
- LPC-PA16
- 39(i) Certification
- Prior Conduct Certification



Section 2.0 is divided into subsections 2.1 through 2.9. These sub-sections demonstrate that the proposed facility meets the requirements of 35 Ill. Admin. Code, Part 811. The following sub-sections are contained within **Section 2.0**:

- Section 2.1 Location
- Section 2.2 Hydrogeologic Investigation
- Section 2.3 Design
- Section 2.4 Stormwater Management Plan
- Section 2.5 Construction Quality Assurance Plan
- Section 2.6 Operating Plan
- Section 2.7 Groundwater Impact Evaluation
- Section 2.8 Environmental Monitoring
- Section 2.9 Closure and Post-Closure Care Plan

Appendices A-S provide additional information which supports the information presented in the above sections and/or complies with IEPA application requirements. An IEPA Compliance Summary Table is located in **Appendix A** to assist in the IEPA's review of this application.