



DEPARTMENT OF PUBLIC HEALTH
CITY OF CHICAGO

June 2, 2022

Mr. Richard J. Vamos, Ph.D., P.E.
DAI Environmental
27834 North Irma Lee Circle
Lake Forest, Illinois 60045

**Subject: Application for Liquid Waste Handling Facility Permit
Green Era 83rd Street, LLC, 650 W. 83rd Street
Deficiency Letter and Request for Additional Information**

Dear Mr. Vamos,

The Chicago Department of Public Health ("the CDPH") received Green Era 83rd Street, LLC.'s ("the Applicant") permit application dated February 11, 2022 ("the Application") to operate a liquid waste handling facility at 650 W. 83rd Street ("the Facility"). Pursuant to Section 11-4-1660 of the Chicago Municipal Code ("Code"), CDPH convened a public hearing to receive community input regarding the Application on May 12, 2020. CDPH also solicited written public comment on the permit application between April 15, 2022, and May 16, 2022.

Based on CDPH review pursuant to requirements set forth in for the rules for Landfills, Liquid Waste Handling Facilities and Transfer Stations last updated April 3, 1998 ("the Rules") and Section 11-4-1525 of the Code, it has determined the Application to be incomplete and substantially deficient. To consider the Application complete, and for CDPH to render a final decision, you must submit the following information below:

1. Pursuant to 8.4.4.9 of the Rules, provide the locations of all fire suppression equipment, including fire extinguishers, and all flammable material storage areas.
2. Pursuant to 8.4.7.3 of the Rules, provide calculations demonstrating the peak electrical and gas demands for the proper operation of the liquid waste handling facility.
3. Pursuant to 8.4.9.1 of the Rules, provide description and specifications of the fencing surrounding the three sides of the Facility (e.g., height, material, screening, etc.).

4. Pursuant to 8.4.14 of the Rules, provide a demonstration that traffic generated by the Facility will not significantly affect existing traffic flows, and that the points of ingress and egress are designed according to Illinois Department of Transportation or Chicago Department of Transportation standards. Such demonstration shall include, but not be limited, to:
 - a. a stacking plan of all trucks and vehicles during the Facility's peak AM and PM traffic hour;
 - b. a listing of roads and highways designated for use by traffic generated by the liquid waste handling facility; and
 - c. a demonstration that traffic generated by the liquid waste handling facility will not interfere with the flow of traffic or exceed the intended level of service of any public way. Such demonstration shall include:
 - i. traffic counts taken in hourly intervals at all ingress/egress points during the anticipated operating hours of the liquid waste handling facility. The entire operating period shall be represented in this traffic count study and shall identify the peak hours of traffic volume occurring in the morning and afternoon. The traffic counts shall include classification of vehicles.
 - ii. a description of the measures taken to reduce the impact of the liquid waste handling facility generated traffic on the existing traffic flows.
5. Pursuant to 8.4.19 of the Rules, the Application must include a complete copy of the Environmental Assessment prepared pursuant to the Chicago Zoning Ordinance. Confirm that Terracon's Phase I Environmental Assessment, the Comprehensive Site Investigation Report, Remediation Objectives Report, and Remedial Action Plan constitute said Zoning-required assessment. If not, please provide the correct report(s).
6. Pursuant to 8.4.20 of the Rules, provide the locations of monitoring wells at the Facility designed to detect releases from the waste handling operations. Such information shall include, but not be limited to:
 - a. drawings indicating the location of all monitoring wells and piezometers;
 - b. the construction details of the above wells and piezometers;
 - c. a narrative explaining that the horizontal and vertical spacing of well screens are capable of detecting releases at the Facility; and
 - d. a description of monitoring well abandonment procedures which detail any backfilling or sealing to prevent the abandoned well from serving as a potential contaminant pathway.
7. Pursuant to 8.4.21 of the Rules, provide a comprehensive hydrogeologic investigation of the site and the surrounding area. Such investigation shall include all pertinent information required under 8.4.21.1 through 8.4.21.8 of the Rules.
8. Pursuant to 8.5.8 of the Rules, provide a demonstration that the building's HVAC system can maintain adequate negative pressure to prevent odors from escaping the building untreated. Such

demonstration shall include sensitivity calculations of inward facial velocities ranging from a conservative scenario assuming all doors and windows open, versus a more likely situation of only a limited number of overhead doors open to accommodate daily peak deliveries and shipments.

9. Pursuant to 8.510 of the Rules, provide a ground water monitoring plan addressing all the information requirements set forth in paragraphs 8.5.10.1 through 8.5.10.7 of the Rules.
10. Pursuant to 10.6 of the Rules, provide the following information for the Phase I and Phase II biogas flares, thermal oxidizer, odor control exhaust, and all vent stacks from the biomass and digester tanks:
 - a. location in Universal Transverse Mercator (UTM) coordinates,
 - b. stack diameter in meters,
 - c. stack height in meters,
 - d. exit temperature in Kelvin,
 - e. exit velocity in meters per second, and
 - f. PM 2.5 emission rate in grams per second.
11. Pursuant to 11.8 of the Rules, provide a secondary containment plan that retains the volume of the largest tank plus precipitation from a 25-year, 24-hour rainfall event, using the latest Illinois State Water Survey Bulletin 70 precipitation data. The secondary containment installation shall allow for the complete and timely removal of any spilled waste or other materials.

The Applicant may propose using the basement and detention pond for secondary containment storage. However, such proposal shall demonstrate that the required secondary-storage volume will be fully contained within the property, and at a minimum include the following information:

- a. a topographic map depicting the flow paths of liquids or material from the spill source to all receiving collection points, and the extent of inundation of the property from a spill equal to the required secondary containment volume;
 - b. a written approval from the Chicago Department of Buildings authorizing the complete flooding of the basement for temporary secondary containment storage;
 - c. a description of procedures to promptly close off all detention pond outlets in an event of a catastrophic spill; and
 - d. a cost estimate, detailed procedures, and timeline for the prompt removal of all spilled and contaminated materials, as well as the thorough cleaning of impacted surfaces and equipment.
12. CDPH requires certain information to assess potential noise impacts to surrounding residences. Pursuant to 11-4-1520(A)(30) of the Code, provide the following information for each and every outdoor mechanical equipment/device, including but not limited to air pollution control devices, blowers, fans, pumps, motors, and generators:

Green Era 83rd Street, LLC

June 2, 2022

Page 4

- i. brief description, make and model number;
- ii. physical dimensions in meters,
- iii. sound power and octave band, or sound pressure reading and measurement distance,
- iv. location in UTM coordinates, and
- v. installation height in meters.

The CDPH may require further additional information based on your responses to this information request, or to address specific neighborhood concerns. If you have any questions regarding this deficiency letter, please call me at (312) 745-3136.

Sincerely,



Renante Marante
Environmental Engineer III
Permitting and Inspections Program