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Paulding Dairy
Draft Permit to Install & Draft Permit to Operate

General overview of the farm

Paulding Dairy is an existing facility located at 12593 County Road 71, Paulding, Ohio, in Paulding County, Paulding Township. It is situated in the Auglaize River watershed. The facility is owned by GreenTop Acres, LLC and operated by GreenTop Acres, LLC and Ohio Renewable Holdings, LLC. The dairy has an existing design capacity of 5,501 mature cows that are housed in 8 freestall barns.

There are six existing manure storage ponds with a combined capacity of 83.5 million gallons and two sand settling basins storing manure solids that provide approximately 393 days of storage. A sand lane system is used to recycle bedding material.

General Overview of the draft Permit to Install

Paulding Dairy is proposing to construct an anaerobic digestion facility that would process manure generated by the dairy and other nearby permitted livestock facilities. The anaerobic digestion facility would produce methane biogas and digestate, which is a wet mixture that will be separated into a solid and a liquid. Digestate is rich in nutrients and will be used as a substitute for commercial fertilizers.

The 4-cell digester would be approximately 9.2 million gallons in volume. In addition to the digester, the facility is proposing to construct solid and liquid digestate storage structures.

For solid digestate, a covered storage pad with a capacity of 368,640 cubic feet would be used to provide approximately 29 days of storage for eventual distribution and utilization by others.

For liquid digestate, one pond with a capacity of approximately 10.3 million gallons would provide temporary storage. The liquid digestate would primarily be loaded onto tanker trucks and returned to the facility from which it originated.

No additional animal design capacity is proposed with this draft permit.

General overview of the draft Permit to Operate

Within the draft Permit to Operate (PTO), a complete manure management plan is provided which outlines inspections and monitoring that must be completed by the facility. At the existing maximum animal design capacity, Paulding Dairy will generate an estimated 71.4 million gallons annually of captured storm water, manure, and milking center wastewater and 1,059 tons of manure solids. The solid and liquid manure would be land applied to 1,340 acres in a crop rotation that includes corn, wheat and sorghum silage.

The proposed anaerobic digester would import manure from other nearby permitted livestock facilities and process approximately 183 million gallons of manure annually. Approximately 148



million gallons of liquid digestate would be returned annually to the respective facilities and land applied in accordance with their approved manure management plans. Additionally, approximately 131,000 tons of solid digestate would be distributed to and utilized by others in accordance with ODA rules.

The Permit to Operate, should it be approved, shall be valid for a period of five years, at which time a permit renewal application would need to be submitted for review and public noticed.

An Insect and Rodent Control Plan is included to minimize the presence and negative effects of insects and rodents.

A Mortality Management Plan is required for disposal of dead livestock. Approved methods of disposal are burying, landfilling, burning, rendering and composting. Paulding Dairy plans to utilize rendering as the primary method of disposal.

An Emergency Response Plan is required to ensure accidents or emergencies are handled quickly and efficiently to maintain the safety of the environment, wildlife and water supplies.

Finally, an Operating Record is included that provides all forms and information that must be maintained by the facility to show compliance with ODA's rules and the permit. These records include inspection of the manure storage structures, manure characterization, insect and rodent control, distribution and utilization of manure, and mortality management. The facility and these records are routinely inspected by the Ohio Department of Agriculture to ensure compliance.

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