

DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL SERVICES DIVISION
Field Office 3, Spencer

SITE SURVEY REPORT

DATE: September 29, 2020

TO: Thabit Hamoud, WWS, WQB, ESD, DNR, Des Moines

FROM: Tom Roos, Environmental Specialist Sr., Field Office 3

RE: Site Survey – Gelita USA, Inc. Wastewater Treatment Facility (NPDES #9700101)

BACKGROUND

Gelita USA, Inc. manufactures food grade and pharmaceutical grade gelatin and other food grade collagen peptide products using pork skin and cattle bone byproducts. Wastewater from this facility consists of process wastewater, boiler blowdown, and non-contact cooling water. Treatment at this facility consists of three dissolved air flotation (DAF) units for pretreatment and a five cell lagoon system with a total of eighteen surface aeration in cells 1(15 aerators) and 4 (3 aerators). Wastewater is either discharged via the effluent pumping station to the Missouri River via outfall 003 or recirculated back through the lagoon for additional treatment.

The proposed improvement project will be broken down into two phases. Phase I improvements will include removal of organics, inert material and FOG from the waste stream in order to reduce concentrations in the influent waste stream to the treatment facility. Phase II improvements are yet to be determined and will be based on the results of Phase I, but will likely include one or more of the following processes: anaerobic pretreatment, improvements to the existing aerated lagoon system, activated sludge, fixed film aerobic treatment, or other proprietary technologies.

Phase I improvements will be within the existing footprint of the facility. For the most part, Phase II will be within the existing footprint of the treatment facility but may extend farther to the southeast of the lagoon site.

The site of the proposed facility upgrades is located in Section 18, T8N-R47W, Woodbury County, Iowa.

OBSERVATIONS

On September 28, 2020, a survey was conducted to determine if the site of the proposed improvements complies with the separation distance requirements in subrule 567 IAC 64.2(3). During the survey the following observations were made:

- The site of the proposed improvements appear to be greater than 1000 feet from all inhabitable residences, commercial buildings, or other inhabitable structures.
- The site of the proposed improvements appear to be greater than 1000 feet from all public wells.
- The site of the proposed improvements appear to be greater than 400 feet from all private wells.
- The site of the proposed improvements appear to be greater than 400 feet from all lakes and public impoundments.
- The site of the proposed improvements is not within the flood plain of any stream.
- The site of the proposed improvements appear to be greater than 25 feet from property lines and rights-of-way.

CONCLUSIONS & RECOMMENDATIONS

This site survey was conducted using the maps provided by Gelita's consultant. The site of the proposed wastewater treatment facility improvements appear to meet all of the separation distances required by subrule 567 IAC 64.2(3). Due to the fact the final Phase II facility location has not been determined, prior to construction, the consulting engineer must verify the location of the proposed improvements meet all separation distance requirements.

Tom Roos

INSPECTOR: Tom Roos

DATE: 9/29/20

Jennifer Christian

REVIEWER: Jennifer Christian

DATE: 9/29/20

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