

DATE: March 4, 2026

TO: Emmanuel Nathi, WW Engineering Section, DNR, Des Moines

FROM: Brian Lee, Environmental Specialist, FO6

RE: Wastewater Site Survey - New (5th) Equalization Tank

FACILITY: Bayer CropScience LP; #7000102

WORK REQUEST: FOCD #6048

OBSERVATIONS: See below

This site survey is for a new (5th) equalization tank at the Muscatine Bayer facility. The unit will be located east of the existing 4th equalization tank and north of the current Bayer wastewater treatment facility. This site survey was completed on 3/3/25 and 3/4/25 with a combination of an on-site visit and assessment via mapping tools. Maps provided by the facility and DNR Engineering staff were utilized as well. Information collected from previous site surveys, conducted in 2023-2025, were also utilized to assess separation distances. The separation distances outlined in subrule 567 IAC 60.2(2)c which are outlined in bullets below, were utilized for the site survey.

- *1000 feet from the nearest inhabitable residence, commercial building, or other inhabitable structure:* No off site (non-Bayer owned) structures were determined to be within 1000 feet of the proposed tank.
- *1000 feet from public shallow wells:* Well 11C is considered to be a public shallow well. The well is approximately 1010 feet from the exterior of the new proposed equalization tank. The new tank will be no closer to the well compared to existing wastewater treatment.
- *400 feet from public deep wells:* No "deep" public wells were determined in the vicinity of the proposed treatment facility.
- *400 feet from private wells:* Wells 10B and 6B are considered private wells. 10B is approximately 440 feet away from the new tank. Well 6B is approximately 465 feet from the new tank. The tank will be no closer to this well than to existing treatment components.
- *400 feet from lakes and public impoundments:* No impoundments were determined to be within 400 feet of the proposed treatment portion.
- *25 feet from property lines and rights-of-way:* The property line for the Bayer facility is well over 25 feet from this expansion.

The 90% rule would technically be applicable in this situation if needed. However, the new equalization tank appears to be no closer to Wells 11C, 10B, and 6B than the existing separation distances to current wastewater treatment components.

xc: FOCD - Bayer Crop Science #7000102