IOWA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL SERVICES DIVISION
Field Office 5, Windsor Heights
AFO Site Survey Report

To: Dallas Heikens From: Jeff Theobald Date Emailed to Engineer: 2/10/2025

Facility Name: Marshall Ridge Farms ID #: 60101

Facility Owner: Marshall Ridge Farms, LLC Facility Contact: Kevin Blood

Location: SW ¼ of the NE ¼, Section 17 State Center Township, Marshall County, Iowa

New Site

Proposed Construction: Adding one freestall barn (7,000 mature dairy cows) and 2 basins Are there adjacent sites? No

Animal Species: Dairy Proposed AUC: 8,000 to 15,000 AWC: 10,625,000 to 19,725,000 Lbs.

MMP Approved 2/10/25

If existing site- Original Construction Date: 1/1/1970 Investigation Date: 1/16/25

TABLE 6D – STRUCTURE SEPARATION DISTANCE REQUIREMENTS AND OBSERVATIONS (FT)

Type of Structure: Confinement Bldgs, Cvrd Frmd Manure Strg Structure & Anaerobic Lagoons, Uncvrd Earthen Manure Strg Bsn

	Residences[1], Businesses, Churches, Schools (Unincorporated & Incorporated Areas)	Public use areas	Major water sources, wellhead, cistern of ag drainage well, known sinkhole	Water sources[2]	Designated wetlands	Right-of-way of a thoroughfare maintained by a political subdivision
Requirements	1500 - 2500	2500	1000	500	2500	100
Observations	>1600 - >2500	>2500	>1000	>500	>2,500	>100

[1]Residences not owned by the owner of the animal feeding operation
[2]Excluding privately owned lakes or ponds w/o an outlet or when a secondary containment barrier (SCB) is provided.

Vacant Residence within separation distance? No

Secondary Containment Barrier needed? No

Separation Distance Waiver: Yes Recorded waiver submitted from neighbor 12/31/24

ALL AFOS – WELL SEPARATION DISTANCE REQUIREMENTS (REQ) AND OBSERVATIONS (OBS) (FT)

Type of Structure	Public Well REQ		Public Well OBS		Private Well REQ		Private Well OBS	
	Shallow	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep
Earthen Manure Storage Basin	1000	400	>2000	>2000	400	400	>1000	>1000
Confinement Building	200	100	>2000	>2000	200	100	>1000	>1000

Water Supply: Rural Water - no well present

Additional Water Supply Info (if applicable): Choose an item

If utilizing rural water, producer should contact rural water to ensure adequate supply is provided.

Flood Plain Status: Not in alluvial soil

Karst Status: Not in potential karst

Previous Permits: Authorization to use issued 4/14/2020 – south side new building
3/3/2023 - Digesters
Choose an item

Choose an item

Discussion Points

Reminded applicant/contact about proper pit fan transition install?	N/A
Existing building pit fan transition installation adequate.	N/A
Reminded applicant/contact about no water supply or septic pipes through pit walls?	N/A
Reminded applicant/contact of no septic waste into pit?	N/A
Reminded applicant/contact that footing tile cannot dead end, must gravity outlet or have operating sump pump?	N/A
Existing building with footing tile meets above requirements	N/A
Reminded applicant/contact that a compost structure must be 100 feet from a well	N/A
Reminded applicant/contact about potential need for storm water controls	Yes
Existing County tile close?	Not Applicable
Does site have existing unpermitted open lot?	N/A

Persons present at site survey:

Kevin Blood - Owner, John Everly (Pinnacle), and Jeff Theobald & Katie Taylor (IDNR FO#5)

Comments:

It was determined from the site survey (1/16/2025) that the basin to the east was to close to the neighbor on Canfield Ave. Nic Rowe (project engineer), hired a professional land surveyor (Claspsaddle-Garber Associates, Inc.) to site in the east basin to meet the required separation distance of 2500 feet. This survey document was submitted to the field office on January 29, 2025.

2 points of the building:
NW corner of building : Northing - 4649735, Easting - 0483217, within 7m, NAD 83 Zone 15
SW corner of west basin: Northing - 4649074, Easting – 4829144, within 7m, NAD 83 Zone 15

This proposed facility as submitted by the responsible party and verified during the site survey:

Appears to comply with all the distance requirements of Chapter 459 of the Code of Iowa and Chapter 567 IAC 65.

Signature: Jeff Theobald Digitally signed by Jeff Theobald Date: 2025.02.10 12:38:36 -06'00'

Signature: Dennis Thielen Digitally signed by Dennis Thielen Date: 2025.02.10 12:19:10 -06'00'

Jeff Theobald	2/10/2025	Dennis Thielen	2/10/2025
Inspector	Date	Reviewer	Date