IOWA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL SERVICES DIVISION
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REPORT OF INVESTIGATION

INVESTIGATION DATE CURRENT: 07/31/17 **LAST: N/A**

TO: Thabit Hamoud, DNR Wastewater Section

SUBJECT: Walz Energy
NPDES # NA

PERSONS CONTACTED: Blake Dougherty – General Manager
Nic Rowel – ProAg Engineering (By email)

AUTHENTICATION

INSPECTOR: Tom McCarthy **DATE:** 08/16/17
Tom McCarthy, Environmental Specialist

REVIEWER: Amber Sauser **DATE:** 8/16/17
Amber Sauser, Environmental Specialist Senior

File Name: 22WW/ Walz Energy Site Survey 073117-tem

OBSERVATIONS/RECOMMENDATIONS:

Walz Energy will start with a reported 10,000 head of beef cattle. It is likely that the digester will accept products from nonAFO sources.

On July 31, 2017, I visited Walz Energy and met with Blake Dougherty, General Manager, to perform a site survey for the proposed anaerobic lagoon. Separation distance concerns from a private well and to nearby residences were noted.

See the attached revised Map 1.and corrected Schedule A (page 2) provided by ProAg Engineering on 08/15/17.

A well variance for the existing well on site will be pursued. If the variance is not granted, the well will be properly plugged prior to using the anaerobic lagoon. New private wells will be 400 feet from the lagoon.

A separation distance of 1875 feet to residences is required per Iowa Code 455B.134. DNR conservatively estimates that over 100,000 gallons of discharge will flow into the anaerobic lagoon.

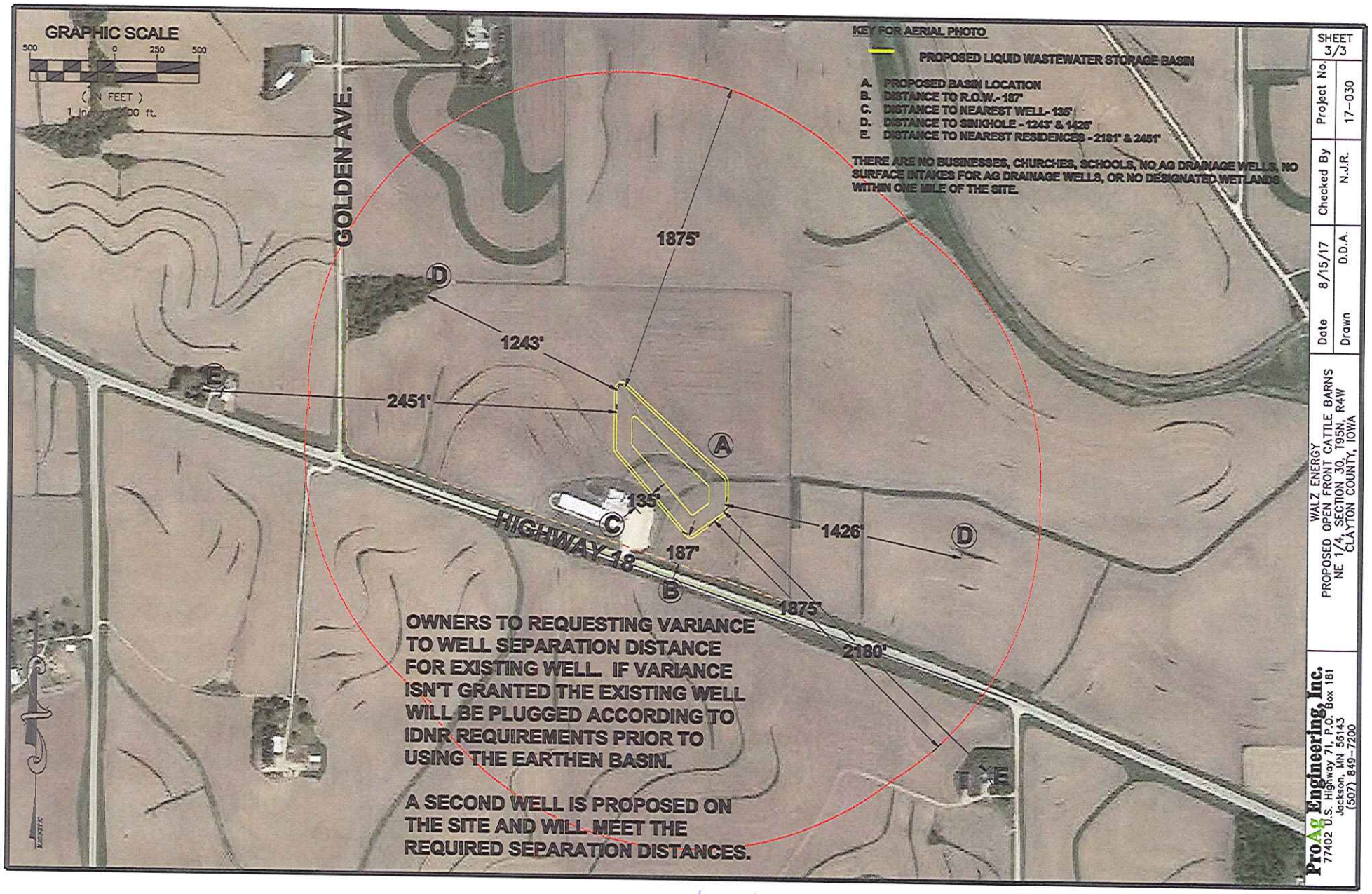
Based on knowledge of the site, discussions concerning the site, and the distances listed on Map 1 and Schedule F, it appears that all separation distances listed in 567 IAC 64.2(3) can be met at the new location.

DOCUMENT CHECKLIST

Identify all categories included in this project. Also, identify schedules attached to this application.

Schedule	Title	Attached	Included in Project	Submittal Date
B	Collection System	☐	☐	
C	Lateral Sewer Extension	☐	☐	
D	Trunk & Interceptor Sewer	☐	☐	
E	Wastewater Pump Station	☐	☐	
F	Treatment Project Site Selection	☒	☐	
G	Treatment Project Design Data	☐	☒	
H1	Schematic Flow Diagram	☐	☐	
H2	Treatment Process Loading and Removal Efficiency	☐	☐	
H3	Mechanical Plant Reliability	☐	☐	
I	Screening, Grit Removal and Flow Measurement	☐	☐	
J	Septic Tank System	☐	☐	
K1	Controlled Discharge Pond	☐	☐	
K2	Aerated Pond	☐	☐	
K3	Anaerobic Lagoon	☐	☒	
L	Setting Tanks	☐	☐	
M	Fixed Film Reactor-Stationary Media	☐	☐	
N	Rotating Biological Contactor	☐	☐	
O	Aeration Tanks or Basins	☐	☐	
P	Gas Chlorination	☐	☐	
Q	Sludge Digestion and Holding	☐	☐	
R1	Sludge Dewatering and Disposal	☐	☐	
R2 (A&B)	Low Rate Land Application of Sludge	☐	☐	
R3	Land Application of Sewage Sludge (To be developed)	☐	☐	
S	Land Application of Wastewater (To be developed)	☐	☐	
	Sewage Treatment Agreement	☐	☐	

Identify any categories included in this project which are not provided in the above list of schedules.



Map 1- received 08/15/17 TM