



Redwood County

www.co.redwood.mn.us

## Animal Confinement Feedlot Conditional Use Permit Application

**Proposed Location of Feedlot Operation:**

Permit #: 6-23 Date: 5/23/23

Address: TBD City: Revere State: MN Zip: 56166  
House # Street Name

Parcel #: 56-036-4020 Township: Johnsonville Section: 36 Twp #: 110N Range: 38W

**Information about the Operation:**

**General description of feedlot operation (including type and number of animal units, barns, and manure storage plan):**

Mattison & Sons Livestock would like to propose the construction 500'x50'x24' monostep partial confinement building as well as a 112'x40'24' commodity shed. Buildings will be used in a finishing cattle feeding operation. This site is also proposing the construction of open lots. One 500'x86' open lot with 5 pens capable of accommodating 170 hd of finishing cattle per pen for a total of 850 hd. The afore mentioned open lot will be constructed to work in conjunction with the proposed partial confinement building. The site is also proposing a 2nd open lot, a 250'x100' standalone open lot composed of 2 pens capable of holding 70 finishing cattle per pen for total of 140 hd. Total head count after construction will be 990 hd for a total of 990 animal units. All manure generated at the site will be stored in pen packs within the open lots or in temporary stockpile in farm fields. (Please see attached engineered plan map for specifics)

**Legal Description of Proposed Feedlot Location:**

SW 1/4 of SE 1/4 section 36 of 110N-38W.

**Site / Plan Information:**

Zoning District: Ag

Soil Type 1: 421 B

Soil Type 2: 183A

Water source for the site: Proposed Well

Drainage System: \_\_\_\_\_

**Estimated water use:**

**Animal 1**

Animal Type: Finishing Cattle

10.80 gallons/day/animal x 990 number of animals on site x 365.0 number of days present  
 = 3,902,580 gallons/yr/Site

**Animal 2**

Animal Type: \_\_\_\_\_

0 gallons/day/animal x \_\_\_\_\_ number of animals on site x 0 number of days present  
 = 0 gallons/yr/site

**Animal 3**

Animal Type: \_\_\_\_\_

gallons/day/animal x \_\_\_\_\_ number of animals on site x \_\_\_\_\_ number of days present  
 = 0 gallons/yr/site

Total Gallons: 0

**Proposed Building(s) Information:** (Please enter dimensions in feet)

Building 1: Width: 50' Length: 500

Building 3: Width: 40' Length: 112'

Building 2: Width: \_\_\_\_\_ Length: \_\_\_\_\_

Building 4: Width: \_\_\_\_\_ Length: \_\_\_\_\_

Setback from road right-of-way: 123.0 feet

Setback from center line of road: 168.0 feet

Estimated date for beginning construction: 7/15/2023

Estimated completion date: 11/15/2023

**General Contractor:**

Name: Lamberton Construction Inc.

City: Lamberton

State: MN

**Applicant Information:**

Note: If the applicant is not one natural person, requested information and signature(s) must be provided for each partner/associate/co-applicant and must include documentation of each co-applicant's legal identity and the legal relationship between them. Each partner/associate/co-applicant must sign or affirm the application before it will be accepted for consideration.

First Name: Trent

Last Name: Mattison

Business Name: Mattison & Sons Livestock

Address: 21181 160th St.

City: Revere

State: MN

Zip: 56166

Home Phone: \_\_\_\_\_

Cell Phone: 507-430-3155

Email: mattison08@hotmail.com

List any additional applicants:

See Attached Additional Owners Page

**Land Owner:** Complete only if different from Applicant

First Name: \_\_\_\_\_

Last Name: \_\_\_\_\_

Business Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: MN

Zip: \_\_\_\_\_

Home Phone: \_\_\_\_\_

Cell Phone: \_\_\_\_\_

Email: \_\_\_\_\_

If the applicant is not the owner of the land, please specify the type of agreement the applicant has with the owner of the land at the proposed site: \_\_\_\_\_

**Redlot Operator:** Complete only if different from Applicant

If the operator is not a natural person(s), you must also provide documentation of the operator's legal identity.

First Name: \_\_\_\_\_

Last Name: \_\_\_\_\_

Business Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: MN

Zip: \_\_\_\_\_

Home Phone: \_\_\_\_\_

Cell Phone: \_\_\_\_\_

Email: \_\_\_\_\_

I affirm that the forgoing information is true and accurate. I understand that if any portion of this information is false or materially misleading, any conditional use permit issued in reliance upon this information is voidable at the election of Redwood County.

Applicant(s) Signature(s):

*Trent* *Taylor* *Chad*

Date: 5/31/23

Landowner Signature

Date: 5/31/23

List of Required Documentation: (Application not complete until received)

•MPCA Application

•Manure Spreading Agreements

•Pit Design

•Manure Management Plan

*Chad Mattison*  
*June 6-19/23*

**Office Use Only** \* The section below is to be filled out by the Environmental Office Staff

Permit fee: \$700

Receipt #: 344811

Application Received:

5/31/23

**Commission Action:**

**County Board Action:**

Approved: \_\_\_\_\_

Date: \_\_\_\_\_

Approved: \_\_\_\_\_

Date: \_\_\_\_\_

Disapproved: \_\_\_\_\_

Date: \_\_\_\_\_

Disapproved: \_\_\_\_\_

Date: \_\_\_\_\_

**Mattison & Sons Additional Owners**

**Taylor Mattison  
16033 Garden Ave  
Lamberton, MN 56152  
507-430-3154**

**Chad Mattison  
502 3<sup>rd</sup> Ave. West  
Lamberton, MN 56152  
507-828-6331**

## Submittal Information

Facility Name:	Mattison & Sons Livestock
Agency Interest ID:	255685
Permit ID:	NEW
Service Type:	Feedlot Permitting - Construction Short Form Issuance
Transaction ID:	72490
Submitted On:	2023-05-31 13:20:17

## Permit Application Selection

Does your facility exceed any federal large CAFO thresholds?	No
Do you want to apply for NPDES Permit?	No
Does your facility currently or after proposed expansion have a capacity to house 1,000 or more animal units?	No
Do you want to apply for an SDS Permit?	No
Has a part of your facility been identified as a pollution hazard by the Minnesota Pollution Control Agency (MPCA) or your County Feedlot Officer?	No
Are you proposing construction or expansion of a facility?	Yes
Will the construction or expansion result in your facility having a capacity to house 300 or more animal units, or are you proposing to construct a manure storage area at a facility that has the capacity to house 300 or more animal units?	Yes

## Application Readiness

Based on your previous answers, you are applying for a Construction Short Form Permit.

Are you constructing new or expanding an existing feedlot or manure storage area (MSA)?	Yes
Is the ultimate capacity of the feedlot 500 or more animal units, or will the MSA hold manure produced by 500 or more animal units?	Yes
Acres Disturbed	4.9
Is the facility Minnesota Agricultural Water Quality Certified?	No
Is the feedlot in a non-delegated county?	Yes

### Acknowledgements

I have notified all government authorities and local zoning authorities about the proposed construction or expansion, in accordance with Minn. R. 7020.2000 subp. 5.

I agree to comply with the requirements of the current Construction Stormwater(CSW) NPDES general permit(Minn.R. 7090.2020 provides permit coverage even though no application has been made.)

## Feedlot Information

Feedlot Name:	Mattison & Sons Livestock
Physical Address:	TBD Revere MN 56166
Mailing Address:	21181 160th St Revere MN 56166
Location Description:	

## Feedlot Location

Collection Method:	Digitized - MPCA online map
Coordinate System:	Lat Long - decimal degrees
Latitude:	44.28289
Longitude:	-95.35892
Point of Reference:	General Location
County:	Redwood
Tribal Lands:	
Parcel(s) County and ID:	
Township:	110
Range:	38W
Section:	36
Quarter 160:	SE
Quarter 40:	SW
Quarter 10:	
Quarter 2.5:	



## Contacts

Contact Name: Trent Mattison  
 Contact Type: Feedlot Contact  
 Organization Name: Mattison & Sons Livestock  
 Organization Type: Private (Non-Government)  
 Address: 21181 160th St  
 Revere MN 56166  
 Email: mattison08@hotmail.com  
 Phone: 507-430-3155

Contact Name: Trent Mattison  
 Contact Type: Owner  
 Organization Name: Mattison & Sons Livestock  
 Organization Type: Private (Non-Government)  
 Address: 21181 160th St  
 Revere MN 56166  
 Email: mattison08@hotmail.com  
 Phone: 507-430-3155

Contact Name: Taylor Mattison  
 Contact Type: Owner  
 Organization Name: Mattison & Sons Livestock  
 Organization Type: Private (Non-Government)  
 Address: 16033 Garden Ave  
 Lamberton MN 56152  
 Email: mattison08@hotmail.com  
 Phone: 507-430-3154

Contact Name: Chad Mattison  
 Contact Type: Owner  
 Organization Name: Mattison & Sons Livestock  
 Organization Type: Private (Non-Government)  
 Address: 502 3rd Ave. West  
 Lamberton MN 56152  
 Email: mattison08@hotmail.com  
 Phone: 507-828-6331

## Prevention Opportunities

Have you implemented any prevention activities in the past year? No  
 Why not? New facility, site or project  
 Would you like to be contacted to discuss prevention opportunities? No

## Animal Holding & Numbers

### Animal Holding Areas

Does the facility have pasture access? No  
 Are there animal holding areas at this facility? Yes  
 Is there a well within 1000 feet? Yes 103 ft.

Partial Confinement Barn	Animal Type	Capacity	Animal Units
Status: New	Beef Cattle - Slaughter/Stock	425	425
Structure Name: Mono Slope			
Length: 500 feet			
Width: 50 feet			
Coordinate System: Lat Long - decimal degrees			
Latitude: 44.28289			
Longitude: -95.35892			
Collection Method: Digitized - MPCA online map			
Reference Point: General Location			

Open Lot	Animal Type	Capacity	Animal Units
Status: New	Beef Cattle - Slaughter/Stock	425	425

Structure Name: Open Lots associated with the partial confinement building

Length: 500 feet

Width: 53 feet

Coordinate System: Lat Long - decimal degrees

Latitude: 44.28289

Longitude: -95.35892

Collection Method: Digitized - MPCA online map

Reference Point: General Location

Open Lot	Animal Type	Capacity	Animal Units
Status: New	Beef Cattle - Slaughter/Stock	140	140

Structure Name: North Open Lot

Length: 250 feet

Width: 100 feet

Coordinate System: Lat Long - decimal degrees

Latitude: 44.28348

Longitude: -95.35912

Collection Method: Digitized - MPCA online map

Reference Point: General Location

#### Total Animal Headcount

Animal Type	Capacity	Units
Beef Cattle - Slaughter/Stock	990	990
Totals:	990	990

## Manure Storage Areas

Are there manure storage or treatment areas at this feedlot? No

## Sensitive Areas

Is any part of the facility located within 1,000 feet of surface waters or tile intakes? No

Is any part of the facility located within a delineated flood plain (100 year flood)? No

Is any part of the facility located within designated shoreland? No

Are there four or more sinkholes within 1,000 feet of the facility? No

Is any part of the facility located within 300 feet of a known sinkhole? No

Is any part of the facility located within 1,000 feet of any of the following types of wells? No

-a community water supply well,

-a well serving a public school as defined under Minn.Stat. 120A. 05,

-a well serving a private school excluding home school sites

-a well serving a licensed child care center where the well is vulnerable(Minn.R. 4720.5550, subp. 2)

## Environmental Review

Are you only applying for reissuance of an existing permit? (no construction projects, physical alteration, or operational changes to the facility or process)?	No
Are you required to prepare, are you preparing, or have you completed any of the following items for any responsible governmental unit (RGU) other than the MPCA (e.g. City, Township, County, State or Federal Agency) as part of this project? Environmental Assessment Worksheet(EAW), Environmental Impact Statement(EIS), Alternative Urban Areawide Review(AUAR), Federal Environmental Assessment(EA)	No
Has this project been petitioned for an environmental review?	No
Subp. 2 - Construction or expansion of a nuclear fuel or nuclear waste processing facility?	No
Subp. 3 - Construction of an electric power generating plant and associated facilities designed for or capable of operating at a capacity of 25 megawatts or more but less than 50 megawatts and for which an air permit from MPCA is required?	No
Subp. 4 - Construction of a new or expansion of an existing petroleum refinery?	No
Subp. 5A - Construction of a facility for the conversion of coal, peat, or other biomass sources to a gaseous, liquid, or solid fuel (this includes anaerobic digesters)?	No
Subp. 5B - Construction of a facility for the production of alcohol fuels?	No
Subp. 8A - Construction or expansion of a coal transfer facility?	No
Subp. 8B - Construction or expansion of a hazardous materials transfer facility?	No
Subp. 10A - Construction or expansion of a storage facility for coal?	No
Subp. 10B - Construction of a facility for the storage of hazardous materials?	No
Subp. 10C & Subp. 10D – Expansion of a facility for the storage of hazardous materials?	No
Subp. 10H- Construction or expansion of a facility that will store silica sand?	No
Subp. 13 - Construction or expansion of a paper or pulp processing facility?	No
Subp. 15 - Construction or modification of a stationary source of air emissions resulting in an increase in air emissions or greenhouse gases?	No
Subp. 16 - Construction or expansion of a hazardous waste disposal facility?	No
Subp. 17 - Construction or expansion of a mixed municipal solid waste disposal, transfer, energy recovery, or compost facility?	No
Subp. 18A & Subp. 18B - Expansion, modification or replacement of a municipal sewage collection system?	No
Subp. 18C - Expansion or reconstruction of an existing municipal or domestic wastewater treatment facility?	No
Subp. 18D - Construction of a new municipal or domestic wastewater treatment facility?	No
Subp. 18E - Expansion or modification of an existing industrial process wastewater treatment facility?	No
Subp. 18F - Construction of a new industrial process wastewater treatment facility?	No
Subp. 25 - Incineration of wastes containing Polychlorinated Biphenyls (PCBs)?	No
Subp. 29 - Construction or expansion of an animal feedlot facility?	Yes
Subp. 29.1 - Are you constructing an animal feedlot facility with a capacity of 1,000 animal units or more?	No
Subp. 29.2 - Are you expanding an animal feedlot by 1,000 animal units or more?	No
Subp. 29.3 - Are you constructing or expanding an animal feedlot facility by more than 500 animal units?	Yes
Subp. 29.4 - Is the existing or proposed facility located wholly or partially in any of the following sensitive locations:	
• Shoreland or delineated floodplain	No
• A state or federally designated wild and scenic river district	No
• The Minnesota River Project Riverbend Area	No
• The Mississippi Headwaters Area	No
• A drinking water supply management area	No
• Within 1000 feet of a sinkhole, cave, resurgent spring, disappearing spring, Karst window, blind valley or dry valley	No
A - Has a previous phase of this project been conducted in the last 3 years?	No
B - Are you planning an expansion or another phase of this project within the next 3 years?	No
C - Do you have other existing facilities or proposed projects that may affect the same geographic area as this project?	No

## Manure Management Plan

How much manure do you transfer? Some



# Attachments

## Permit Application Documents:

Attachment Type	File Name	Document Date
Verification of Good Neighbor Notice	Affidavit.pdf	5/26/2023

## Other Documents:

Attachment Type	File Name	Document Date
Soil Test	Soil Fertility_Two Rivers Farms_Haney South hi12q F22.pdf	5/25/2023
Soil Test	Soil Fertility_Two Rivers Farms_Vogel 80 N jo27i.pdf	5/25/2023
Soil Test	VOGEL80SJO27ITWORIVERSTWORIVERSFARMSTWORIVERSFARMS.pdf	5/25/2023
Manure Transfer Plan	Manure Transfer Plan.docx	5/25/2023
MMP Data File	2023 MMP initial.xlsx	5/25/2023
Field Maps	12-108-37_Haney_FSA.pdf	5/25/2023
Field Maps	26-110-38_Butch Home E40_FSA.pdf	5/25/2023
Field Maps	27-110-38_Vogel 80_FSA.pdf	5/25/2023
Field Maps	26-110-38_Butch Home_FSA.pdf	5/25/2023
Field Maps	36-110-38_Chads_FSA.pdf	5/25/2023
Field Maps	Butch Home E Setback.pdf	5/25/2023
Field Maps	Vogel 80 Setback.pdf	5/25/2023
Field Maps	Chad 40 Setback.pdf	5/25/2023
Field Maps	Haney Setback.pdf	5/25/2023
Field Maps	12-108-37_Haney_Soils.pdf	5/25/2023
Field Maps	27-110-38_Vogel 80_Soils.pdf	5/25/2023
Field Maps	26-110-38_Butch Home_Soils.pdf	5/25/2023
Field Maps	26-110-38_Butch Home E40_Soils.pdf	5/25/2023
Field Maps	36-110-38_Chads_Soils.pdf	5/25/2023
Field Maps	12-108-37_Haney_Topo.pdf	5/25/2023
Field Maps	27-110-38_Vogel 80_Topo.pdf	5/25/2023
Field Maps	36-110-38_Chads_Topo.pdf	5/25/2023
Field Maps	26-110-38_Butch Home E40_Topo.pdf	5/25/2023
Field Maps	26-110-38_Butch Home_Topo.pdf	5/25/2023
Soil Test	Soil Fertility_Chad Mattison_Butch Home E40 JO26HS22.pdf	5/25/2023
Soil Test	Soil Fertility_Chad Mattison_Chads N40 JO36TS22.pdf	5/25/2023
Soil Test	Soil Fertility_Chad Mattison_Chads S40 jo36q.pdf	5/25/2023
Soil Test	Soil Fertility_Two Rivers Farms_Haney North hi12r F21.pdf	5/25/2023
Supporting Application Documents	MATTISON & SONS LIVESTOCK LLC FINAL PLANS.pdf	5/31/2023
Supporting Application Documents	2023-05-24-application_65355.pdf	5/26/2023

## Certification

I hereby certify that the design, construction, and operation of the facility will be in accordance with this application and plans, specifications, reports, and related communications approved by the MPCA, and in accordance with applicable permit conditions or regulations/standards of the MPCA. I also certify under penalty of law that this document and all attachments were prepared under my direction or supervision and the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

The person that signs this application must be one of the following:

- A. For a corporation, a principal executive officer of at least the level of vice president
- B. For a partnership, a general partner
- C. For a sole proprietorship, the proprietor

Name of Signing Party:

Trent Mattison

Username of Signing Party:

mattison08@hotmail.com

Challenge Question:

Who is the person you most admire?

Challenge Question Answer:

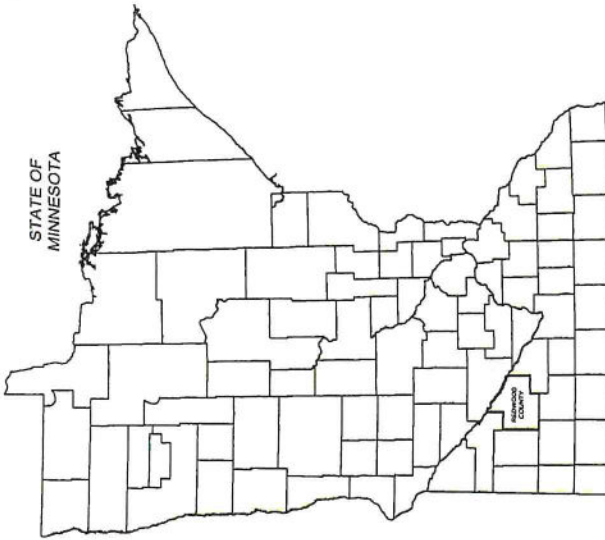
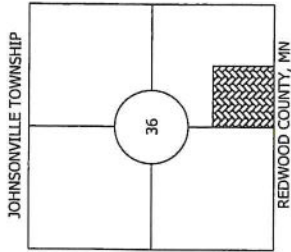
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Certification Date and Time:

5/31/2023 1:20:11 PM

# MATTISON & SONS LIVESTOCK LLC CONFINEMENT LOTS

Designed by:  
BL 50170222  
Drawn by:  
Brent Louwagie  
Reviewed by:  
Brent Louwagie



AERIAL MAP



**PROJECT INFORMATION**  
**PROJECT LOCATION:**  
 FROM REVERE, MN. WEST 0.25 MILE, ON  
 COUNTY ROAD 127. NORTH 4.0 MILES, ON  
 FRONTIER AVE. EAST 0.5 MILE, ON 160TH ST.  
 SITE ON NORTH SIDE OF 160TH ST.

**ENGINEER:**  
 CENTROL CROP CONSULTING  
 ATTN: BRENT LOUWAGIE P.E.  
 PO BOX 236,  
 351 BURLINGTON STREET  
 MARSHALL, MN 56164  
 507-829-1693



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS  
 PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A  
 DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE  
 STATE OF MINNESOTA.

BRENT LOUWAGIE  
 DATE: May 31, 2023

THIS CERTIFICATION COVERS SHEETS 1 - 6

LICENSE NUMBER: 59730  
 LICENSE RENEWAL DATE IS JUNE 30, 2024

MATTISON & SONS LIVESTOCK LLC  
 PROPOSED SITE PLAN  
 PART OF THE SW 1/4 OF THE SE 1/4 OF SEC 36,  
 T 110N, R 38W OF THE 5TH P.M.  
 REDWOOD COUNTY, STATE OF MINNESOTA

Sheet: **P-1**  
 1 of 6  
 File Name: MATTISON\_P-1

PO BOX 236, 351 Burlington Circle Marshall, MN 56258 • (507) 337-3021  
**CENTROL**  
 CROP CONSULTING

- DRAWING INDEX**
1. C-1 COVER SHEET
  2. P-1 PROPOSED SITE PLAN
  3. P-2 PROPOSED SITE PLAN - CUT/FILL
  4. P-3 PROPOSED SITE PLAN - STAKEOUT POINTS
  5. SP-1 SWPPP
  6. SP-2 SWPPP NARRATIVE

**\*DRAWINGS TO BE USED IN ACCORDANCE  
 WITH THE ASSOCIATED CONSTRUCTION  
 SPECIFICATIONS**





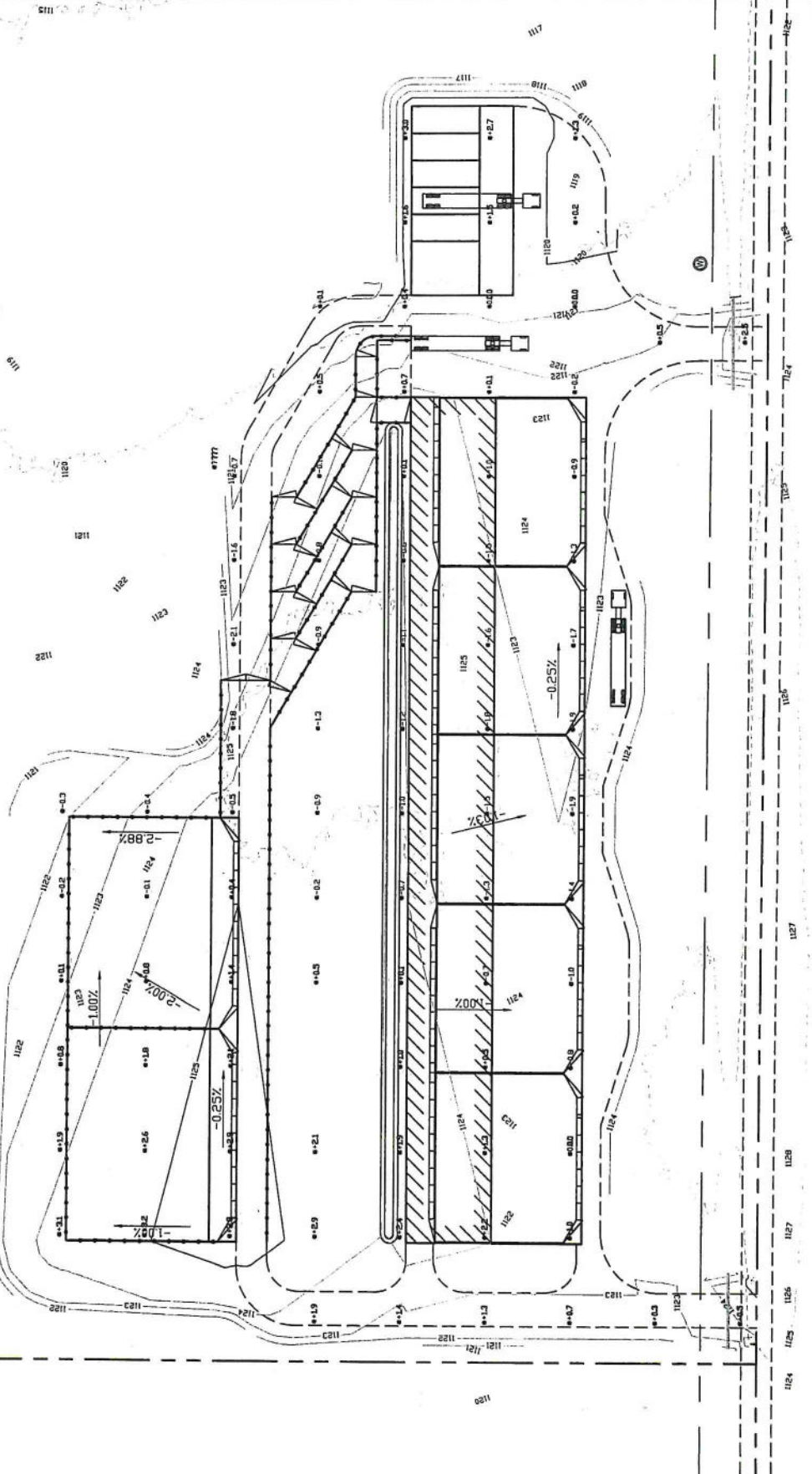


Designed by:  
 Bl. 5/1/2023  
 Drawn by:  
 Checked by:  
 Revisions:

**CENTROL**  
 CROP CONSULTING  
 PO BOX 236, 351 Burlington Circle Marshall, MN 56258 • (507) 337-3021

**MATTISON & SONS LIVESTOCK LLC**  
 PROPOSED SITE PLAN - CUT/FILL  
 PART OF THE SW 1/4 OF THE SE 1/4 OF SEC. 36,  
 T. 110N., R. 38W. OF THE 5th P.M.,  
 REDWOOD COUNTY, STATE OF MINNESOTA

Sheet:  
**P-1**  
 3 of 6  
 File Name:  
 MATTISON\_P-1



ESTIMATED EARTHWORK QUANTITIES:  
 CUT: 3,600 CY  
 FILL: 6,775 CY  
 ASSUMES 20% SHRINK, ALL ELEVATIONS TO  
 FINISHED GRADE  
 TOPSOIL GRUBBING, CONCRETE AND GRAVEL NOT  
 ACCOUNTED FOR IN EARTHWORK NUMBERS



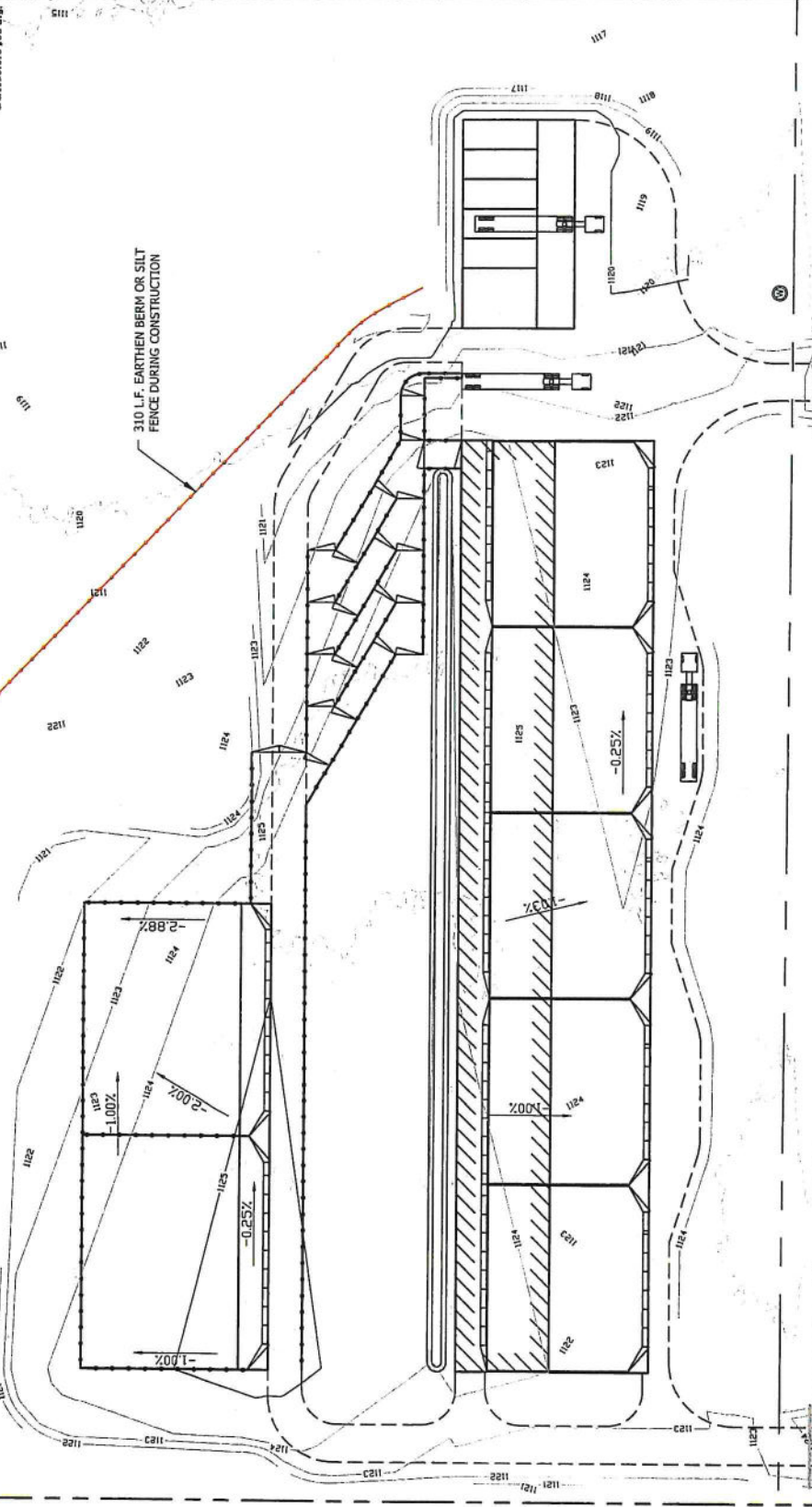


Designed by:  
 BL 5/31/2023  
 Drawn by:  
 R  
 Revisions:

**CENTROL**  
 CROP CONSULTING  
 PO BOX 236, 351 Burlington Circle Marshall, MN 56258 • (507) 337-3021

MATTISON & SONS LIVESTOCK LLC  
 STORMWATER POLLUTION PREVENTION PLAN  
 PART OF THE SW 1/4 OF THE SE 1/4 OF SEC 36,  
 T 110N, R 38W OF THE 5th P.M.  
 REDWOOD COUNTY, STATE OF MINNESOTA

Sheet:  
**SP-1**  
 5 of 6  
 File Name:  
 MATTISON\_P-1



**PERMANENT STORMWATER BASINS**  
 ROOF BASIN:  
 CONTRIBUTING IMPERVIOUS AREA: 0.57 ACRES  
 1" RUNOFF TREATMENT VOLUME: 15,600 GAL  
 TOP OF BERM ELEVATION: 1124.0'  
 BOTTOM ELEVATION: 1123.0'  
 EFFECTIVE VOLUME @ TOP ELEVATION: 27,000 GAL  
 5' x 480' BOTTOM DIMENSION w/ 2.5' RADIUS  
 2.5:1 SIDE SLOPES

**CONSTRUCTION:**  
 CONSTRUCT USING NATIVE SITE SOILS. INSTALL 4" PERFORATED DRAIN TILE UNDER THE CENTER OF BASIN BOTTOM. PLACE ONE SURFACE INLET FOR EACH BASIN. ONE FOOT ABOVE BOTTOM ON ELEVATION WITH TRASH GUARD. OUTLET TILE INTO EXISTING FIELD TILE.





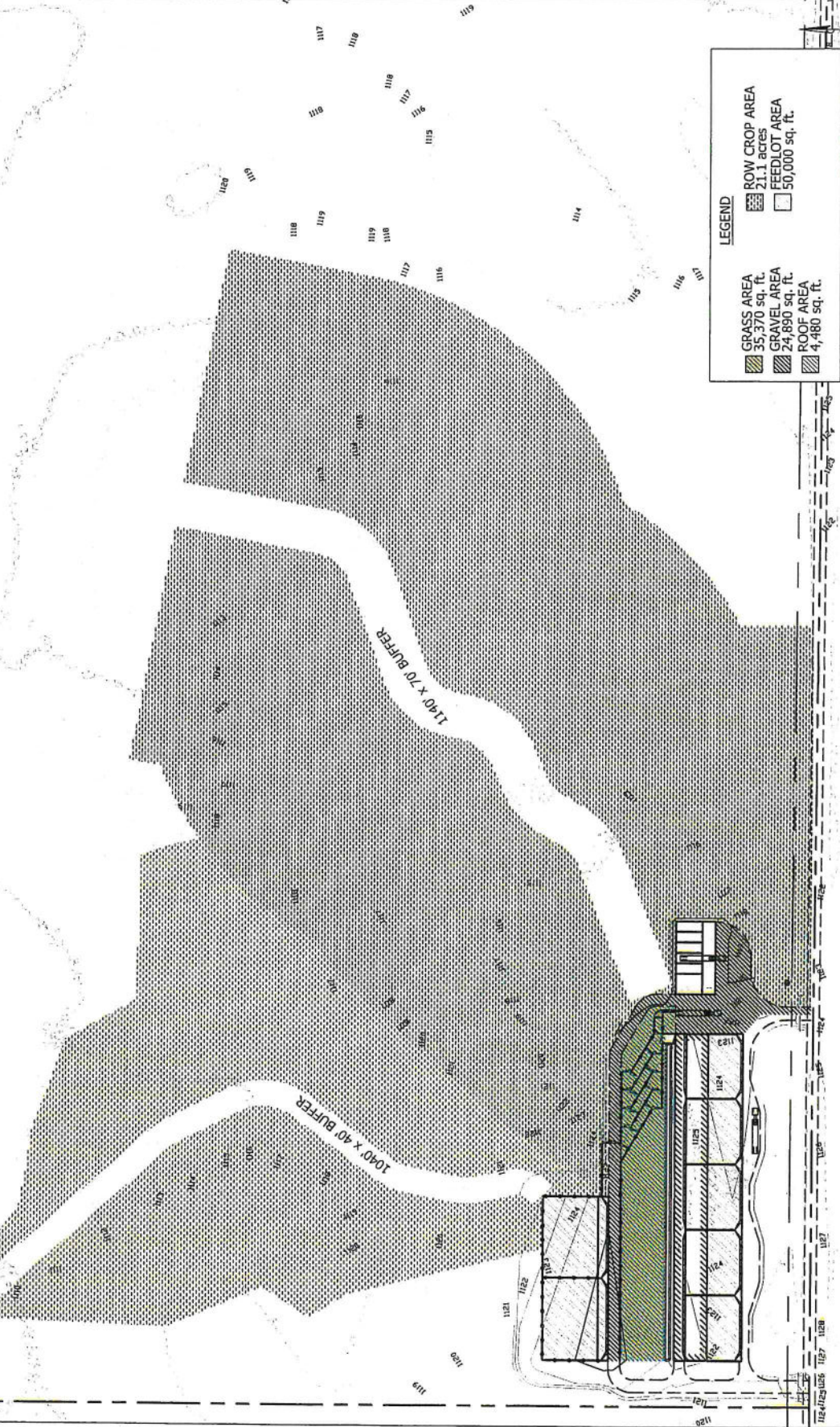


Designed by:  
 BL 5/21/2023  
 Drawn by:  
 P. J. MATTISON  
 P. J. MATTISON

**CENTRAL**  
 CROP CONSULTING  
 PO BOX 236, 351 Burlington Circle Marshall, MN 56258 • (507) 337-3021

MATTISON & SONS LIVESTOCK LLC  
 MINNFARM EVALUATION MAP  
 PART OF THE SW 1/4 OF THE SE 1/4 OF SEC 36,  
 T 110N, R 38W OF THE 5th P.M.  
 REDWOOD COUNTY, STATE OF MINNESOTA

Sheet:  
**MF**  
 1 of 1  
 File Name:  
 MATTISON\_P-1



**LEGEND**

	GRASS AREA		ROW CROP AREA
	35,370 sq. ft.		21.1 acres
	GRAVEL AREA		FEEDLOT AREA
	24,890 sq. ft.		50,000 sq. ft.
	ROOF AREA		
	4,480 sq. ft.		





**MODEL INPUTS**

Farm Name: **Mattison & Sons Livestock LLC**  
 Address or other information: \_\_\_\_\_  
 Evaluation Date: **5/26/23** Phone: \_\_\_\_\_  
 County: **Redwood** Evaluator: **Brent Louwagie P.E.**

Compliance = **YES**  
 INDEX = **8**

MinnFARM Version 2.3 UMN BBE 3/18/2010

Clear Farm Info

Are animal numbers the same all year? **YES**

**Average Annual Numbers**

Feedlot area: **25000** sq.ft  
 % paved: **100** %  
 Scrape lot every: **2** days  
 Slope: **1.0** %  
 AUD= **1481** Average weight: **1000** pounds Average hours/day on lot: **24**

Type of Animal	Number Animals	Average weight pounds	Average hours/day on lot
Beef Steer	850	1000	24
None			
None			
None			

% snow removed lot= **60**  
 % snow removed A2= **60**

Scrape lot every			Scrape lot every			Scrape lot every		
Number Animals	Average weight pounds	Average hours/day on lot	Number Animals	Average weight pounds	Average hours/day on lot	Number Animals	Average weight pounds	Average hours/day on lot

**Sub-lot 2 April-May or Annual**

Feedlot area: \_\_\_\_\_ sq.ft  
 % paved: \_\_\_\_\_ %  
 Scrape lot every: \_\_\_\_\_ days  
 Slope: \_\_\_\_\_ %  
 AUD= **0** Average weight: \_\_\_\_\_ pounds Average hours/day on lot: \_\_\_\_\_

Type of Animal	Number Animals	Average weight pounds	Average hours/day on lot
None			
None			
None			
None			

**Sub-lot 2 June - August**

Scrape lot every: \_\_\_\_\_ days  
 AUD= **0**

Number Animals	Average weight pounds	Average hours/day on lot

**Sub-lot 2 Sept - Oct**

Scrape lot every: \_\_\_\_\_ days  
 AUD= **0**

Number Animals	Average weight pounds	Average hours/day on lot

**Sub-lot 2 Nov - Mar**

Scrape lot every: \_\_\_\_\_ days  
 AUD= **0**

Number Animals	Average weight pounds	Average hours/day on lot

**Sub-lot 3 April-May or Annual**

Feedlot area: \_\_\_\_\_ sq.ft  
 % paved: \_\_\_\_\_ %  
 Scrape lot every: \_\_\_\_\_ days  
 Slope: \_\_\_\_\_ %  
 AUD= **0** Average weight: \_\_\_\_\_ pounds Average hours/day on lot: \_\_\_\_\_

Type of Animal	Number Animals	Average weight pounds	Average hours/day on lot
Beef Steer			
None			
None			
None			

**Sub-lot 3 June - August**

Scrape lot every: \_\_\_\_\_ days  
 AUD= **0**

Number Animals	Average weight pounds	Average hours/day on lot

**Sub-lot 3 Sept - Oct**

Scrape lot every: \_\_\_\_\_ days  
 AUD= **0**

Number Animals	Average weight pounds	Average hours/day on lot

**Sub-lot 3 Nov - Mar**

Scrape lot every: \_\_\_\_\_ days  
 AUD= **0**

Number Animals	Average weight pounds	Average hours/day on lot

**Sub-lot 4 April-May or Annual**

Feedlot area: \_\_\_\_\_ sq.ft  
 % paved: \_\_\_\_\_ %  
 Scrape lot every: \_\_\_\_\_ days  
 Slope: \_\_\_\_\_ %  
 AUD= **0** Average weight: \_\_\_\_\_ pounds Average hours/day on lot: \_\_\_\_\_

Type of Animal	Number Animals	Average weight pounds	Average hours/day on lot
Beef Steer			
None			
None			
None			

**Sub-lot 4 June - August**

Scrape lot every: \_\_\_\_\_ days  
 AUD= **0**

Number Animals	Average weight pounds	Average hours/day on lot

**Sub-lot 4 Sept - Oct**

Scrape lot every: \_\_\_\_\_ days  
 AUD= **0**

Number Animals	Average weight pounds	Average hours/day on lot

**Sub-lot 4 Nov - Mar**

Scrape lot every: \_\_\_\_\_ days  
 AUD= **0**

Number Animals	Average weight pounds	Average hours/day on lot

**AREA 2 INFORMATION**

Roof area: **0** sq.ft

Tributary	Area	Units	Cover Type or Rotation	Your Soils	Hydro Group
Tributary A		acres	Row Crop-Straight	-	B
Tributary B		sq.ft	Row Crop-Contour	-	B
Tributary C		sq.ft	Row Crop-Contour	-	B
Tributary D		sq.ft	Row Crop-Contour	-	B
Tributary E		sq.ft	Row Crop-Contour	-	B
Tributary F		sq.ft	Row Crop-Straight	-	B

Compliance = **YES**  
 INDEX = **8**

**BUFFER INFORMATION**

Buffer	Length	Width	feet	Slope	%	Cover Type or Rotation	Your Soils	Hydro Group
Buffer A	225	70	feet	1.8	%	Row Crop-Straight	-	B
Buffer B	250	70	feet	1.4	%	Row Crop-Straight	-	C
Buffer C	665	70	feet	0.2	%	Row Crop-Contour	-	C
Buffer D			feet		%	Row Crop-Contour	-	B



**AREA 3 INFORMATION (NOT INCLUDING BUFFER AREA)**

	Area	Units	Cover Type or Rotation	Your Soils	Hydro Group	
Adjacent A	4480	sq.ft	Roof	-	B	Estimated max Area 3 <b>20.94</b> acres  Compliance = YES INDEX = 8
Adjacent B	24890	sq.ft	Driveway/Road	-	B	
Adjacent C	35370	sq.ft	Lawn	-	B	
Adjacent D	21.1	acres	Row Crop-Straight	-	C	
Adjacent E		sq.ft	Row Crop-Contour	-	B	
Adjacent F		sq.ft	Row Crop-Contour	-	B	

**RECEIVING WATER INFORMATION**

Is this feedlot in a TMDL Area?  If yes, what for? (fecal, TSS, P, etc.)

Is the feedlot in a Riparian Area?  If yes, what type?

What is the End of Treatment (EoT)?

What is the Water of Concern (WoC)?  Name of waterbody

miles

Other Comments?

**MODEL RESULTS FOR: Maltison & Sons Livestock LLC 5/26/23**

MinnFARM Version 2.3 UMN BBE

3/16/2010

**Site Summary**

Total Feedlot Area = 0.57 acres  
 Roof Area = 0.00 acres  
 Total Area 2 = 0.00 acres  
 Total Buffer Area = 1.83 acres  
 Total Area 3 = 22.58 acres  
 Ratio of Buffer to Feedlot Area (includes Area 2) = 3.19

**Site Evaluation Results**

Does Evaluation Indicate Regulatory Compliance?

Prioritization INDEX =

**Receiving Water Summary**

The Feedlot is NOT in a TMDL area  
 The Feedlot is NOT in a Riparian Area as defined by BWSR  
 The End of Treatment is a Water of Concern  
 The Water of Concern is a Tile Intake with no Lake  
 The name of the WoC is was not provided  
 The distance from the EoT to the WoC is 0 ft

**Seasonal Runoff Summary**

**Average Seasonal and Annual Runoff Volume**

Location (units)	Spring	Summer	Fall	Winter	Annual
Feedlot Edge (acre-in)	0.58	1.51	0.46	0.03	2.58
Buffer Edge (acre-in)	17.19	10.72	5.88	15.41	49.20

**Average Annual Loading from Feedlot**

Parameter (units)	Spring	Summer	Fall	Winter	Annual	Compliance Indicator
COD (lbs)	187	228	96	26	537	
Phosphorus (lbs)	4	4	2	0	10	5.0
Nitrogen (lbs)	10	13	5	1	30	
Fecal Coliform (cfu)	4.7E+13	7.4E+13	2.7E+13	2.1E+13	1.7E+14	
BOD 5 (lbs)	41	51	21	6	119	125.0

<=Using BOD Based limit

**Comments**

-

**MODEL INPUTS**

Farm Name **Mattison & Sons Livestock LLC**  
 Address or other information **Winter Pens**  
 Evaluation Date **5/26/23** Phone \_\_\_\_\_  
 County **Redwood** Evaluator **Brent Louwagie P.E.**

**Compliance = YES**  
**INDEX = 5**

MinnFARM Version 2.3 UMN BBE 3/18/2019

Clear Farm Info

Are animal numbers the same all year? **NO**

Sub-lot 1 April-May				Sub-lot 1 June-Aug.			Sub-lot 1 Sept-Oct			Sub-lot 1 Nov-Mar		
Feedlot area	25000	sq.ft		Scrape lot every <b>7</b>			Scrape lot every <b>7</b>			% snow removed lot= <b>60</b>		
% paved	16	%		AUD= 244			AUD= 244			% snow removed A2= <b>60</b>		
Scrape lot every	7	days		Average weight <b>1000</b>			Average weight <b>1000</b>			Scrape lot every <b>7</b>		
Slope	2.5	%		Average hours/day <b>24</b>			Average hours/day <b>24</b>			AUD= 244		
AUD=	0			Number Animals			Number Animals			Average weight pounds		
Type of Animal	Number	weight	Average hours/day	Number	weight	Average hours/day	Number	weight	Average hours/day	Number	weight	Average hours/day
Beef Steer				140	1000	24	140	1000	24	140	1000	24
None												
None												
None												

Sub-lot 2 April-May or Annual				Sub-lot 2 June - August			Sub-lot 2 Sept - Oct			Sub-lot 2 Nov - Mar		
Feedlot area		sq.ft		Scrape lot every _____			Scrape lot every _____			Scrape lot every _____		
% paved		%		AUD= 0			AUD= 0			AUD= 0		
Scrape lot every		days		Average weight _____			Average weight _____			Average weight _____		
Slope		%		Average hours/day _____			Average hours/day _____			Average hours/day _____		
AUD=	0			Number Animals			Number Animals			Number Animals		
Type of Animal	Number	weight	Average hours/day	Number	weight	Average hours/day	Number	weight	Average hours/day	Number	weight	Average hours/day
None												
None												
None												
None												

Sub-lot 3 April-May or Annual				Sub-lot 3 June - August			Sub-lot 3 Sept - Oct			Sub-lot 3 Nov - Mar		
Feedlot area		sq.ft		Scrape lot every _____			Scrape lot every _____			Scrape lot every _____		
% paved		%		AUD= 0			AUD= 0			AUD= 0		
Scrape lot every		days		Average weight _____			Average weight _____			Average weight _____		
Slope		%		Average hours/day _____			Average hours/day _____			Average hours/day _____		
AUD=	0			Number Animals			Number Animals			Number Animals		
Type of Animal	Number	weight	Average hours/day	Number	weight	Average hours/day	Number	weight	Average hours/day	Number	weight	Average hours/day
Beef Steer												
None												
None												
None												

Sub-lot 4 April-May or Annual				Sub-lot 4 June - August			Sub-lot 4 Sept - Oct			Sub-lot 4 Nov - Mar		
Feedlot area		sq.ft		Scrape lot every _____			Scrape lot every _____			Scrape lot every _____		
% paved		%		AUD= 0			AUD= 0			AUD= 0		
Scrape lot every		days		Average weight _____			Average weight _____			Average weight _____		
Slope		%		Average hours/day _____			Average hours/day _____			Average hours/day _____		
AUD=	0			Number Animals			Number Animals			Number Animals		
Type of Animal	Number	weight	Average hours/day	Number	weight	Average hours/day	Number	weight	Average hours/day	Number	weight	Average hours/day
Beef Steer												
None												
None												
None												

**AREA 2 INFORMATION**

Roof area **0** sq.ft

Tributary	Area	Units	Cover Type or Rotation	Your Soils	Hydro Group
Tributary A		acres	Row Crop-Straight	-	B
Tributary B		sq.ft	Row Crop-Contour	-	B
Tributary C		sq.ft	Row Crop-Contour	-	B
Tributary D		sq.ft	Row Crop-Contour	-	B
Tributary E		sq.ft	Row Crop-Contour	-	B
Tributary F		sq.ft	Row Crop-Straight	-	B

**Compliance = YES**  
**INDEX = 5**

**BUFFER INFORMATION**

Buffer	Length	Width	feet	Slope	%	Cover Type or Rotation	Your Soils	Hydro Group
Buffer A	1040	40	feet	1.2	%	Row Crop-Straight	-	C
Buffer B			feet		%	Row Crop-Contour	-	B
Buffer C			feet		%	Row Crop-Contour	-	B
Buffer D			feet		%	Row Crop-Contour	-	B



**AREA 3 INFORMATION (NOT INCLUDING BUFFER AREA)**

	Area	Units	Cover Type or Rotation	Your Soils	Hydro Group
Adjacent A	7.9	acres	Row Crop-Straight	-	C
Adjacent B		sq.ft	Row Crop-Contour	-	B
Adjacent C		sq.ft	Row Crop-Contour	-	B
Adjacent D		acres	Row Crop-Contour	-	C
Adjacent E		sq.ft	Row Crop-Contour	-	B
Adjacent F		sq.ft	Row Crop-Contour	-	B

Estimated max Area 3: **19.10** acres

Compliance = **YES**  
INDEX = **5**

**RECEIVING WATER INFORMATION**

Is this feedlot in a TMDL Area? **NO** If yes, what for? (fecal, TSS, P, etc.)

Is the feedlot in a Riparian Area? **NO** If yes, what type?

What is the End of Treatment (EoT)? **Water of Concern**

What is the Water of Concern (WoC)? **Tile Intake with no Lake** Name of waterbody: \_\_\_\_\_

Other Comments?

**MODEL RESULTS FOR: Mattison & Sons Livestock LLC**

5/26/23

MinnFARM Version 2.3 UMN BBE

3/19/2010

**Site Summary**

Total Feedlot Area = **0.57** acres  
 Roof Area = **0.00** acres  
 Total Area 2 = **0.00** acres  
 Total Buffer Area = **0.96** acres  
 Total Area 3 = **7.90** acres  
 Ratio of Buffer to Feedlot Area (includes Area 2) = **1.66**

**Site Evaluation Results**

Does Evaluation Indicate Regulatory Compliance? **YES**

Prioritization INDEX = **5**

**Receiving Water Summary**

The Feedlot is **NOT** in a TMDL area  
 The Feedlot is **NOT** in a Riparian Area as defined by BWSR  
 The End of Treatment is a **Water of Concern**  
 The Water of Concern is a **Tile Intake with no Lake**  
 The name of the WoC is **was not provided**  
 The distance from the EoT to the WoC is **0** ft

**Seasonal Runoff Summary**

**Average Seasonal and Annual Runoff Volume**

Location (units)	Spring	Summer	Fall	Winter	Annual
Feedlot Edge (acre-in)	0.00	1.15	0.34	0.02	1.52
Buffer Edge (acre-in)	6.44	4.18	2.30	4.04	16.95

**Average Annual Loading from Feedlot**

Parameter (units)	Spring	Summer	Fall	Winter	Annual	Compliance Indicator
COD (lbs)	0	240	95	16	351	
Phosphorus (lbs)	0	5	2	0	7	3.4
Nitrogen (lbs)	0	13	5	1	20	
Fecal Coliform (cfu)	0.0E+00	3.5E+13	1.3E+13	1.0E+13	5.8E+13	
BOD 5 (lbs)	0	53	21	4	78	85.0

<=Using BOD Based limit

**Comments**

-

# Manure Storage, Handling, and Testing Information



Facility Name: Two Rivers Ranch  
 Owner/Operator Name: Trent Mattison

NPDES or SDS Permit? No Permit Number: TBD  
 Date Last Revised: 5/22/2023 Registration Number: TBD

Version 9.01 Last Updated: 1/13/22

	Manure Source #1	Manure Source #2	Manure Source #3	Manure Source #4
<b>Manure Sources</b>				
Description of Manure Source <small>Group sources with similar nutrient content if they have identical animal type, water usage, feed rations, and manure storage</small>	Stockpile			
<b>Livestock Information</b>				
Predominate Animal Type <small>(Contributing to Manure Source)</small>	Beef Feeder (High Energy)			
Average Animal Weight	1,000 lbs			
Animal Number	990			
Length of Time Livestock Spend In Facility <small>(Contributing to Manure Source)</small>	365 days/yr			
Average Animal Weight	lbs			
Animal Number	days/yr			
Length of Time Livestock Spend In Facility				
<b>Storage Information</b>				
Storage Type	Stockpile			
Capacity	6,100 tons			
Storage Length	12 months			
<b>Application Methods</b>				
Commercial Applicator (Yes/No or Name)	No			
Spreader Type	Solids Spreader			
How Volume/Tonnage Determined per Load	Spreader Volume			
How Application Rate is Calibrated	Acres Covered by One Load			
<b>Manure Analysis</b> - Existing facilities should use actual manure test results				
Sampling Frequency	Every Year			
Sampling Methods	Non-Agitated Composite			
Date Last Analyzed				
Basis for N, P, & K Values Below	Estimate			
Total N - (do not enter lab estimated availability)	11 lbs/ton			
Total P <sub>2</sub> O <sub>5</sub> - (do not enter lab estimated availability)	7 lbs/ton			
Total K <sub>2</sub> O - (do not enter lab estimated availability)	11 lbs/ton			
<b>Annual Generation</b> - Existing facilities should use actual production values				
Total Manure Produced per Year (Estimated)	6,073 tons			
Total Manure Produced per Year (Actual)	tons			
Annual N Produced	66,805 lbs			
Annual P <sub>2</sub> O <sub>5</sub> Produced	42,512 lbs			
Annual K <sub>2</sub> O Produced	66,805 lbs			

wq-f6-12

	Average Book Values	Average Book Values	Average Book Values	Average Book Values
N	11			
P <sub>2</sub> O <sub>5</sub>	7			
K <sub>2</sub> O	11			







# Sensitive Features Management Worksheet



This worksheet identifies all allowable techniques that can be used to provide protection to sensitive features **as required** in Minnesota Rules and/or permit conditions. One of the following measures must be employed for the applicable sensitive feature. Any of the identified practices are acceptable.

## Tile Intakes

- Option A - Inject or incorporate within 24 hours and prior to rainfall within 300 ft, observe a 25 ft non-manured setback, and avoid long term soil P build-up
- Option B - Inject or incorporate within 24 hours and prior to rainfall within 300 ft.
- Option C - 35 ft grassed buffer
- Option D - 100 ft setback with at least 16.5 ft as grassed buffer

## Drainage Ditches

- Option A - Inject or incorporate within 24 hours and prior to rainfall within 300 ft, observe a 25 ft non-manured setback, and avoid long term soil P build-up
- Option B - 50 ft wide grassed buffer
- Option C - 100 ft setback with at least 16.5 ft as grassed buffer
- Option D - Protective Berm (prohibits runoff from entering the ditch)

## Lakes, Rivers, and Streams

- Option A - Inject or incorporate within 24 hours and prior to rainfall within 300 ft, observe a 25 ft non-manured setback, and avoid long term soil P build-up
- Option B - 100 ft wide grassed buffer
- Option C - 100 ft setback with at least 16.5 ft as grassed buffer

## Intermittent Streams and/or Public Waters Wetlands (over 10 acres)

- Option A - Inject or incorporate within 24 hours and prior to rainfall within 300 ft, observe a 25 ft non-manured setback, and avoid long term soil P build-up
- Option B - 50 ft wide grassed buffer
- Option C - 100 ft setback with at least 16.5 ft as grassed buffer

## Wells, Mines, or Quarry

- Option A - 50 ft setback - minimum (100 ft if NPDES permitted)

## Sinkholes

- Option A - Inject or incorporate within 24 hours and prior to rainfall upslope and within 300 ft and observe a 50 ft non-manured setback (100 ft non-manured setback for NPDES)
- Option B - Berm that prevents runoff from entering the sinkhole

## Application of Manure During the Summer Months (June, July, and August) - This also includes September for NPDES permitted sites

- Option A - A cover crop will be planted on all fields that receive manure applications during June, July, and August

## Other Conduits to Water

- Option A - Inject or incorporate within 24 hours and prior to rainfall within 300 ft, observe a 25 ft non-manured setback, and avoid long term soil P build-up
- Option B - 50 ft wide grassed buffer
- Option C - 100 ft setback with at least 16.5 ft as grassed buffer
- Option D - Protective Berm (prohibits runoff from entering the waters)

## Early Fall Land Application - Unless otherwise required, this only applies to early fall manure application at NPDES or SDS permitted facilities

- Option A - Fall Application onto fields that are dominated by coarse-textured soils shall be delayed until soil temperatures in the upper six (6) inches, are less than 50 degrees Fahrenheit, unless otherwise first approved by the MPCA.



# High Soil Test Phosphorus Management

This worksheet identifies all allowable techniques that will be used to manage soil phosphorus levels as required in Minnesota Rules. Based upon the soil test results for the field(s), one of the following measures will be employed to manage soil phosphorus levels on land where manure will be applied. Any of the identified practices are acceptable.

## Soil Phosphorus: 22-75 ppm Bray or 17-60 ppm Olsen

**Option A** - Manure will NOT be applied within 300 ft of open tile intakes (NPDES Permits only), lakes, streams, intermittent streams, public waters wetlands, or drainage ditches without protective berms (indicate setbacks on aerial photos)

**Option B** - I will maintain or reduce soil P levels in this field over a six year period. (Example calculations are provided below)

Step 1 - Multiply expected crop yields by the P removal of the crop (Table C of this planner) and determine the average crop P removal over 6 years

Ex. 170 bu Corn [170 \* 0.34] = 58 lbs P removed/year & 45 bu Soybeans [45 \* 0.82] = 37 lbs P removed/year (Average of 48 lbs P removed/yr)

Step 2 - Determine the amount of P that is typically applied in manure applications

Ex. 4000 gals/ac \* 35 lbs P/1000 gals \* 0.8 = 112 lbs P applied

Step 3 - Divide step 2 by the average in step 1. (112 lbs P applied/48 lbs P removed = 2.3) Then take 6 years divided by this result and round down.

Ex. 112 lbs P applied/48 lbs P removed = 2.3 THEN 6 years/2.3 = 2.6 (round down to 2 out of 6 years manure can be applied)

## Soil Phosphorus: 76-150 ppm Bray or 61-120 ppm Olsen

**Option A** - Manure will NOT be applied within 300 ft of open tile intakes, lakes, streams, intermittent streams, public waters wetlands, or drainage ditches without protective berms (indicate setbacks on aerial photos)

**Option B** - Use the University of MN soil P index and apply to fields with a low or very low rating and maintain or reduce soil P over six years

The Minnesota Soil Phosphorus Index can be found at : <https://www.swac.umn.edu/extension-outreach/phosphorusloss>

**Option C** - I will follow all NRCS 590 standards in accordance with the table below and maintain or reduce soil P over six years

Field within 300 feet of waters	Effective 100ft Grassed Buffer	Sheet and Rill Erosion (ton/acre-year)	Manure Application Allowed
No	Yes or No	Any Rate	Yes
Yes	Yes or No	More than 6	No
Yes	No	Less than 4	P removal basis
Yes	No	4 to 6	No
Yes	Yes	Less than 6	P removal basis

## Soil Phosphorus: Over 150 ppm Bray or Over 120 ppm Olsen

**Option A** - Use the University of MN soil P index and apply to fields with a low or very low rating and maintain or reduce soil P over six years

The Minnesota Soil Phosphorus Index can be found at : <https://www.swac.umn.edu/extension-outreach/phosphorusloss>

**Option B** - I will follow all NRCS 590 standards in accordance with the table below and maintain or reduce soil P over six years

Field within 300 feet of waters	Effective 100ft Grassed Buffer	Sheet and Rill Erosion (ton/acre-year)	Manure Application Allowed
Yes	Yes or No	More than 6	No
Yes	No	Any Rate	No
Yes	Yes or No	2 or less	P removal basis
Yes	Yes or No	More than 2	No
No	No	Less than 4	P removal basis
No	No	More than 4	No
No	Yes	Less than 4	Yes
No	Yes	4 to 6	P removal basis
No	Yes or No	More than 6	No



# 6 Year Soil Phosphorus Management Plan



When soil phosphorus levels are required to be maintained (or reduced) over a 6 year period, one of the following crop rotation scenarios will be employed for the applicable field or area near sensitive features. You must complete at least one rotation below or indicate that manure will not be applied within 300 feet of sensitive features (this option will only be visible when all soil test results are below 150 Bray or 120 Olsen).

Manure will not be applied within 300 ft of open tile intakes, lakes, streams, intermittent streams, public water wetlands, or drainage ditches without protective berms.

	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8
<b>Crop (Year 1)</b>	Corn	Corn						
<b>Yield</b>	220 bu	220 bu						
<b>Manure Application Source (1-12) &amp; Rate</b>	1 15 tons	1 15 tons						
<b>2<sup>nd</sup> Manure Application Fertilizer P (total)</b>	lbs	lbs						
<b>Crop (Year 2)</b>	Soybeans	Corn						
<b>Yield</b>	60 bu	220 bu						
<b>Manure Application Source (1-12) &amp; Rate</b>								
<b>2<sup>nd</sup> Manure Application Fertilizer P (total)</b>	lbs	lbs						
<b>Crop (Year 3)</b>	Corn	Corn						
<b>Yield</b>	220 bu	220 bu						
<b>Manure Application Source (1-12) &amp; Rate</b>	1 15 tons	1 15 tons						
<b>2<sup>nd</sup> Manure Application Fertilizer P (total)</b>	lbs	lbs						
<b>Crop (Year 4)</b>	Soybeans	Corn						
<b>Yield</b>	60 bu	220 bu						
<b>Manure Application Source (1-12) &amp; Rate</b>								
<b>2<sup>nd</sup> Manure Application Fertilizer P (total)</b>	lbs	lbs						
<b>Crop (Year 5)</b>	Corn	Corn						
<b>Yield</b>	220 bu	220 bu						
<b>Manure Application Source (1-12) &amp; Rate</b>	1 15 tons	1 15 tons						
<b>2<sup>nd</sup> Manure Application Fertilizer P (total)</b>	lbs	lbs						
<b>Crop (Year 6)</b>	Soybeans	Corn						
<b>Yield</b>	60 bu	220 bu						
<b>Manure Application Source (1-12) &amp; Rate</b>								
<b>2<sup>nd</sup> Manure Application Fertilizer P (total)</b>	lbs	lbs						

## Results

<b>P Applied over 6 Yrs</b>	252 lbs	252 lbs	lbs	lbs	lbs	lbs	lbs	lbs
<b>P Removed over 6 Yrs</b>	372 lbs	448.8 lbs	lbs	lbs	lbs	lbs	lbs	lbs
<b>Will Rotation Build Soil Phosphorus Levels?</b>	No	No						







# Nutrient Application Planning Worksheet (Fields 1-25)



## Manure Source Summary

Source 1: Stockpile (11-7-11)	Source 5:
Source 2:	Source 6:
Source 3:	Source 7:
Source 4:	Source 8:
	Source 9:
	Source 10:
	Source 11:
	Source 12:

Field Information Summary	Crops Grown Summary		Nutrients Needed to Meet Yield Goal (lb/acre)			Manure Application Information (Nutrients for the 2023 Crop)				Nitrogen (lb N/acre)		Phosphorus (lb P <sub>2</sub> O <sub>5</sub> /acre)							
	Acres After Setbacks	Crop Grown to Utilize the Nutrients Applied 2023 Crop	Crop Most Recently Harvested 2022 Crop	Nitrogen Needs	Nitrogen (Removal)	Phosphorus (Needs)	Manure Source (1-12)	Method of Application and Incorporation NPDES/SDS permitted sites cannot apply liquid manure in the winter (unless emergency)	Acres Receiving Manure (reduce to split the field)	Application Rate (gals/tons per acre)	Calculated Max Rate based on Nitrogen	Planned Rate max used if blank	N from Manure (Available this year)	Starter Fertilizer Application (lbs/acre)	Total Fertilizer Application (lbs/acre)	P from Manure (Available this year)	Starter Fertilizer Application (lbs/acre)	Total Fertilizer Application (lbs/acre)	P in Excess of Removal (negative for deficiency)
Field ID																			
Butch Home E	37	Corn	Soybeans	150	---	0	1	NPDES/SDS permitted sites cannot apply liquid manure in the winter (unless emergency)	37	30	30		148		168		93		
Chads N 40	39	Corn	Soybeans	150	---	9	1		39	30	30		148		168		93		
Chads S 40	38	Soybeans	Corn	---	210	0				---	---		---		---		-49		
Haney North	80	Soybeans	Corn	---	210	65				---	---		---		---		-49		
Haney South	75	Corn	Soybeans	150	---	28	1		75	30	30		148		168		93		
Vogel 80N	33	Soybeans	Corn	---	210	58				---	---		---		---		-49		
Vogel 80S	46	Corn	Soybeans	150	---	96	1		46	30	30		148		168		93		

I will transfer ownership of some of the manure.





## MMP for Transferred Manure Ownership

Please answer the following questions to verify that manure ownership has been transferred.

- 1) Will manure be applied to land that is owned, leased, or rented by the feedlot owner/operator or a member/partner of the feedlot ownership entity (inc., LLP, LLLP, et. al.)?  
 Yes       No
- 2) Does the feedlot owner/operator, feedlot ownership member/partner, or employee under the direction of the feedlot ownership entity control the crop and nutrient planning decisions of the manure application sites, including planning for manure application rates, timing, and methods?  
 Yes       No

The answers to these questions indicate that you do **NOT** transfer ownership of manure.

You must go back and enter more info into this program about your land application activities.



# Manure Management Plan (MMP) requirements when ownership of manure is transferred

## Feedlot program

Doc Type: Permit Information Form

### Are you transferring ownership of manure?

MMP and record-keeping requirements for feedlot owners are different when manure ownership is transferred to a third party for land application. The following questions will help you determine if you transfer ownership of manure:

- Yes  No Will manure be applied to land that is owned, leased, or rented by the feedlot owner/operator or a member/partner of the feedlot ownership entity (Inc., LLP, LLLP, et. al.)?
- Yes  No Does the feedlot owner/operator, feedlot ownership member/partner, or employee under the direction of the feedlot ownership entity control the crop and nutrient planning decisions of the manure application sites, including planning for manure application rates, timing, and methods?

If you answered "No" to both questions, then you are transferring ownership of your manure and the feedlot operator may use these guidelines to complete a MMP.

If you answered "Yes" to either question, you are retaining ownership of manure and must complete a more comprehensive MMP. More information on the requirements when manure ownership is retained and resources to develop a retained ownership MMP can be found on the Minnesota Pollution Control Agency's (MPCA) website at <https://www.pca.state.mn.us/water/feedlots>.

If only a portion of your manure is considered to have transferred ownership, then use this form to develop a MMP for the manure which has transferred ownership, and develop the more comprehensive MMP for the manure which is not transferred.

## MMP development

Name of feedlot facility: Mattison & Son Livestock Registration number: TBD

### Manure generation, storage, and testing

Manure storage areas (check all that apply):

- Earthen Basin  Underfloor Concrete Pit  Outdoor Concrete Pit/Tank  Slurry Store  Lagoon  
 Stockpile  Underfloor Dry Storage  Manure Pack  Litter  Other

Yearly manure generation:	Storage capacity:	Anticipated amount to be transferred (approximate):
Liquid: _____ gallons	Liquid: _____ months	Liquid: <input type="checkbox"/> 100% <input type="checkbox"/> 50% <input type="checkbox"/> Other: _____%
Solid: <u>6073</u> tons	Solid: <u>12</u> months	Solid: <input checked="" type="checkbox"/> 100% <input type="checkbox"/> 50% <input type="checkbox"/> Other: _____%

#### Anticipated nutrient content\*:

Source 1: N 11 P 7 K 11  
 Source 2: N \_\_\_\_\_ P \_\_\_\_\_ K \_\_\_\_\_  
 Source 3: N \_\_\_\_\_ P \_\_\_\_\_ K \_\_\_\_\_  
 Source 4: N \_\_\_\_\_ P \_\_\_\_\_ K \_\_\_\_\_

#### Manure type:

Liquid  Solid  
 Liquid  Solid  
 Liquid  Solid  
 Liquid  Solid

#### Testing frequency:

Yearly  Once every \_\_\_ years  
 Yearly  Once every \_\_\_ years  
 Yearly  Once every \_\_\_ years  
 Yearly  Once every \_\_\_ years

\* List the total lbs of N, P, and K. Do not list estimated first year availability if provided by the lab.

### Minimum requirements:

- Yearly sampling for the first three (3) years and then once every four (4) years - NPDES permits require yearly sampling.
- Samples must also occur when changes to nutrient content are expected (unusual weather, change of animal types, etc.)
- Samples must be representative of manure source and follow University of Minnesota Extension Service recommendations.
- Nutrient analysis must occur at a Minnesota Department of Agriculture certified lab or pre-approved alternative.

## Land application

Anticipated land application methods (check all that apply):

Broadcast with incorporation     Broadcast without incorporation     Injection     Unknown

Anticipated land application timing (check all that apply):

Fall     Spring     Winter\*     Summer (cover crop required)     Unknown

\*For NPDES permitted sites only, transfer of manure is prohibited when...

- a) liquid manure will be surface applied to frozen or snow covered soils after November 30, or
- b) solid manure will be surface applied to frozen or snow covered soils during the month of March.

How will you ensure that there is enough land available for spreading manure in accordance with allowable rates; and that land owners are willing to accept/purchase the manure?

Land application agreements    Approximate acreage under agreements 808

Other (describe below)    Approximate acreage available via other methods 2000

Livestock manure is a highly sought after row crop fertilizer in the area. Manure will be transferred / sold to local producers as needed.

### Minimum requirements:

- Attachment A - *Minimum state requirements for applying manure* must be provided to manure recipient.
  - The nutrient content of the transferred manure must be indicated on Attachment A.
- Records of manure transfer activities will be kept utilizing [Records when manure ownership is transferred 300 or more animal units \(wq-f6-43\)](#), which is available on the MPCA website: [www.pca.state.mn.us/feedlots](http://www.pca.state.mn.us/feedlots).

## Animal mortality management (NPDES and SDS permitted sites only)

The following best management practices (BMP)s should be employed to assist in compliance with BAH and MPCA requirements.

### Rendering - Carcass pick-up point BMPs

- Kept in an animal-proof, enclosed area.
- At least 200 yards from a neighbor's buildings.
- Picked up within 72 hours (seven [7] days if refrigerated to less than 45 degrees).

### Composting - Composting area BMPs

- Built on an impervious, weight-bearing pad that is large enough to allow equipment to maneuver.  
Note: Class V gravel material is not considered to be impervious.
- Covered with a roof to prevent excessive moisture on the composting material and eliminate runoff concerns.
- Built of rot-resistant material that is strong enough to withstand the force exerted by equipment.
- Large enough to handle each day's normal mortality through the endpoint of the composting which consists of a minimum of two (2) heat cycles.

### Burial – Burial site BMPs

- Stay five (5 feet above seasonal high water table.
- Stay 1000 feet away from lakes and 300 feet away from rivers, streams, ditches, etc.
- Be covered immediately with enough soil to keep scavengers out (three feet is sufficient).
- Not be placed in sandy or gravelly soil types.
- Maintain at least 10 feet vertical separation between dead animals and bedrock.

### Incineration – Incineration BMPs

- Capable of producing emissions not to exceed 20 percent opacity.
- Fitted with an afterburner that maintains flue gases at 1,200 degrees Fahrenheit for at least 0.3 seconds.
- Ash from the incinerator must be handled in such a manner as to prevent particulate matter from becoming airborne.

### Other Method (describe below)



# Attachment A – Minimum state requirements for applying manure

## Provide this information to the manure recipient

### Manure analysis

N \_\_\_\_\_ P \_\_\_\_\_ K \_\_\_\_\_

### I. Nitrogen rate limits

Limit rates so that estimated plant-available N from all manure and fertilizer sources combined does not exceed the nitrogen recommendations of the University of Minnesota. For corn crops, rates should be consistent with the MRTN.

- 195 lbs/N for corn following corn (as of 2020)
- 150 lbs/N for corn following soybeans (as of 2020)

Calculating N available this year from manure applied to the previous crop

$$\frac{\text{Application rate last year (tons or gal/acre)}}{1000} \times \text{Liquid only} \times \begin{matrix} \text{Availability factor} \\ 0.15 \text{ for swine} \\ 0.25 \text{ for all others} \end{matrix} \times \text{N Test last year} = \text{N available this year (lbs/acre)}$$

All sources of nitrogen must be considered when calculating nitrogen application rates. This includes residual nitrogen from alfalfa grown two years ago, commercial fertilizer (starter or supplemental), nitrates in groundwater, and manure applied last year.

Crop-available manure N applied to legumes cannot exceed legume nitrogen removal rates; 3.5 lbs N per bushel of soybeans, 50 lbs N per ton of alfalfa, 27 lbs N per ton grass hay.

Calculating a manure application rate for the upcoming crop

$$\frac{\text{Desired amount of N from manure}}{\text{Availability factor (\# from table 1/100)}} \div \text{Manure N Test} \times 1000 = \text{Application Rate (tons or gal/acre)}$$

**Summer applications** – Plant a cover crop where manure is applied in June, July, or August to harvested fields that would otherwise remain without crop cover for the rest of the growing season.

Calculating N available from manure applied for the upcoming crop

$$\frac{\text{Application rate (tons or gal/acre)}}{1000} \times \text{Liquid only} \times \begin{matrix} \text{Availability factor} \\ (\# \text{ from table 1/100}) \end{matrix} \times \text{N Test this year} = \text{N available this year (lbs/acre)}$$

### II. Manure application setbacks

Manure application must comply with the following setbacks. County setbacks may be more restrictive.

Table 1. Percent of total manure nitrogen available the first year

Feature	Surface application	Incorporation within 24 hrs
Lakes, streams	300'*	25'
Wetlands (10+ ac)	300'*	25'
Drainage ditches w/o berms	300'*	25'
Open Tile Intakes	300'	0'
Sinkholes w/o berms		
Downslope	50'	50'
Upslope	300'	50'
Wells and quarries	50'	50'

Animal Type	Broadcast			Injection	
	Incorporation after 4 days	Incorporation 12 - 96 hrs	Incorporation within 12 hrs	Knife	Sweep
Beef	25	45	60	50	60
Dairy	20	40	55	50	55
Swine	35	55	75	70	80
Poultry	45	55	70	70	70

\* 100' vegetated buffer can be used instead of 300' setback for non-winter applications (50' buffer for wetlands/ditches)

**If you have a manure spill contact the state duty officer at 1-800-422-0798**

### III. Soil phosphorus (P) management

**Soil P testing** – Test soils for P at least once every four years.

**Avoid P build-up within 300 feet of waters\*** – Where soils test P levels exceed 21 Bray P-1 or 16 Olsen, the rate and frequency of manure applications must not allow soil phosphorus build-up over a six year period, unless a 50-100' vegetative buffer is established along the waters. Single year applications can be based on nitrogen if the remaining phosphorus is removed by subsequent crops.

**Avoid extremely high P soils** – Avoid manure application onto fields where soils exceed:

- 150 ppm Bray P-1 or 120 ppm Olsen
- 75 ppm Bray P-1 or 60 ppm Olsen within 300 feet of water or tile intakes.

\* "waters" refers to lakes, streams, intermittent streams, wetlands over 10 acres, and drainage ditches without protective berms.

### IV. Manure recipient record keeping requirements

The cropland manager must keep records of the following for at least three years (six years if applying near waters):

- Manure test dates and results
- Field ID and acreage
- Soil P test dates and results
- Crop grown and yield goal
- Previous crop grown
- N recommendation for the crop grown
- N from irrigation water
- Carry-over N from previous manure applications
- Date and rate of manure application
- Method of application and incorporation timing
- Manure N and P<sub>2</sub>O<sub>5</sub> available
- Fertilizer N and P<sub>2</sub>O<sub>5</sub> applied
- Total lbs N available/acre (all sources)
- Total lbs P<sub>2</sub>O<sub>5</sub> available/acre (all sources)

### V. Short-term stockpiling practices

Follow all stockpiling setbacks for waters and conduits to waters (ranging from 50 to 300 feet); avoid sandy soils and high water table soils (<2'); avoid slopes over 6%; use diversions if slopes exceed 2%; and keep records as required in Minn. R. 7020.2125. The stockpile size must not exceed the amount of manure needed to supply nutrient needs to the tract of land where applied.

**More information:** For more information, contact the MPCA or visit the website at <https://www.pca.state.mn.us/water/feedlots>.

## USDA-NRCS Manure Ownership Transfer Agreement

Producer/USDA-NRCS Contract Holder	Matheson + Sons Livestock LLC
Address	Phone
21191 160th St Roseville, MN 56166	507-430-3155

Manure Ownership Transfer Agreements are required when the feedlot owner/operator applies manure from their facility onto land that they:

- Do not own, lease, or rent and
- Do not have control over crop and nutrient planning decisions

Livestock producers receiving financial assistance from NRCS with a conservation practice that requires development of a Nutrient Management plan or Comprehensive Nutrient Management Plan (CNMP) must manage or have their manure managed according to NRCS requirements (same as state law). This requirement applies to all land where their manure is applied; regardless of land ownership, manure transfer, or sale to another.

Manure Source to be Transferred					
When Transferred (Months)					
Volume Transferred	Units				
USDA-NRCS Contract Holder Signature				Date	
				8/30/23	

### Fields to Receive Manure

Acres Available for Land Application	358
<input checked="" type="checkbox"/> Map(s) attached with areas to receive manure identified	
Are these fields also receiving manure from another source?	
RD	
This agreement is valid through:	
2033	

*The undersigned manure recipient agrees to allow manure from the above source to be applied to the fields on the attached map(s) and will manage these manure applications according to NRCS Nutrient Management Requirements for the duration of this agreement.*

Manure Recipient	Michael Sansot
Address	Phone
18278 Grandview Ave Lambertson, MN	507-829-8872
Manure Recipient Signature	Date
	8-8-23



## USDA-NRCS Manure Ownership Transfer Agreement

Producer/USDA-NRCS Contract Holder	Mattison & Son's Livestock
Address 21181 160th St Revere, mn 56106	Phone 507-430-3155

Manure Ownership Transfer Agreements are required when the feedlot owner/operator applies manure from their facility onto land that they:

- Do not own, lease, or rent and
- Do not have control over crop and nutrient planning decisions

Livestock producers receiving financial assistance from NRCS with a conservation practice that requires development of a Nutrient Management plan or Comprehensive Nutrient Management Plan (CNMP) must manage or have their manure managed according to NRCS requirements (same as state law). This requirement applies to all land where their manure is applied; regardless of land ownership, manure transfer, or sale to another.

Manure Source to be Transferred					
When Transferred (Months)					
Volume Transferred	Units				
USDA-NRCS Contract Holder Signature				Date 4/30/23	

### Fields to Receive Manure

Acres Available for Land Application	450 acres
<input checked="" type="checkbox"/> Map(s) attached with areas to receive manure identified	
Are these fields also receiving manure from another source? Yes, Ryan Benedick	
This agreement is valid through: 2033 Apr 30	

*The undersigned manure recipient agrees to allow manure from the above source to be applied to the fields on the attached map(s) and will manage these manure applications according to NRCS Nutrient Management Requirements for the duration of this agreement.*

Manure Recipient	Ryan Benedick	
Address 28741 US Hwy 14 Lamberton MN 56152	Phone 507-227-3843	
Manure Recipient Signature	Date 4/30/2023	



**Minnesota Pollution Control Agency**

520 Lafayette Road North  
St. Paul, MN 55155-4194

# Animal Mortality Plan

## NPDES/SDS Permit Program

Feedlot Program

Doc Type: Permit Application

**Purpose:** This *Animal Mortality Plan* is for handling dead animals in accordance with State requirements, including Minn. Stat. § 35.82 and Minn. R. chs. 1719.0100 to 1719.4600 and 7011.1215. This plan is incorporated into the National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) Permit and submitted to the Minnesota Pollution Control Agency (MPCA).

Facility name:     Mattison & Sons Livestock     Feedlot registration no.     TBD      
 Owner/Operator name:     Trent Mattison     Feedlot permit no.     TBD    

**Planned method of animal disposal:** Complete the table below by identifying the animal type, the primary method and the secondary method of disposal of dead animals at your feedlot. The legal methods of disposal are listed below and the minimum requirements for each management option are described on the following page. Please make sure the locations of burial sites, incinerators, temporary mortality storage, and/or compost areas are indicated on the site sketch of your facility included with the NPDES/SDS Permit application.

**Catastrophic loss:** A catastrophic event such as a fire, collapse, tornado, floods or loss of power that results in a mass amount of animal mortalities shall be reported within 24 hours after the event started. Notifications should include the Minnesota Department of Public Safety Duty Officer at 800-422-0798 and the MPCA.

Animal type	Primary method	Secondary method	Catastrophic loss
Beef	Render		<b>Minnesota Duty Officer: 1-800-422-0798</b>

Check here:  By checking here, I indicated that I have read and understand the minimum requirements listed on the second page of this form for the dead animal disposal options identified above for my operation. I agree to adhere to and follow the minimum requirements for the proper disposal of dead animals.

### Legal Methods of Disposal

Species	Method				Exempt by Law
	Bury	Incinerate	Render	Compost	
Poultry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Swine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cattle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> *	<input type="checkbox"/>
Horses	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> *	<input type="checkbox"/>
Sheep/Goats	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Household pets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wild animals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Game farm/Exotic animals	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> *	<input type="checkbox"/>

\*If composting cattle, horses, or game/exotic animals, contact the Minnesota Board of Animal Health at 651-296-2942 or 800-627-3529.

Animal carcasses should be disposed of as soon as possible, within 48-72 hours. Any vehicles transporting carcasses must be: leak proof, covered, inspected, and permitted by the Minnesota Board of Animal Health (If owner is transporting his own dead animals a permit is not required).



## Bury

Operators choosing to bury animals must select sites very carefully due to the high risk of ground-water contamination. Buried carcasses must:

- Stay five (5) feet above seasonal high water table.
- Stay 1000' away from lakes and 300' away from rivers, streams, ditches, etc.
- Be covered immediately with enough soil to keep scavengers out (Minnesota Board of Animal Health guidelines indicate three (3) feet is sufficient).
- Not be placed in sandy or gravelly soil types.
- Maintain at least ten (10) feet vertical separation between dead animals and bedrock.

## Compost

The composting process must, at a minimum, meet the following:

- The owner of the compost facility shall have a written protocol for the operation containing at least the minimum steps listed below and instructing all employees to follow the protocol.
- Mortalities must be processed daily.
- A base of litter is required. The carcasses or discarded animal parts and litter plus bulking agent are added in layers so that the carbon to nitrogen ratio is in the range of 15:1 to 35:1 (optimal 23:1).
- The carcasses or discarded animal parts must be kept six (6) inches from the edges and sealed with litter each day.
- The temperature must be taken and recorded on site daily. The compost temperature must reach a minimum of 130 degrees Fahrenheit. Approximately seven (7) to ten (10) days are needed in each heat cycle to process the carcasses and kill the pathogens. The temperature drop indicates the time to mix and move the compost. A minimum of two (2) heat cycles is required.
- The finished compost must not contain visible pieces of soft tissue and must be handled, stored, and used according to all other applicable rules.

In addition, composting facilities must be:

- Built on an impervious\*, weight-bearing pad that is large enough to allow equipment to maneuver.
- Covered with a roof to prevent excessive moisture on the composting material, but if sawdust or other water-repelling material is used as the bulking agent, a roof may not be necessary.
- Built of rot-resistant material that is strong enough to withstand the force exerted by equipment.
- Large enough to handle each day's normal mortality through the endpoint of the composting which consists of a minimum of two (2) heat cycles.

## Incinerate

Incinerator must be:

- Capable of producing emissions not to exceed 20 percent opacity.
- Fitted with an afterburner that maintains flue gases at 1,200 degrees Fahrenheit for at least 0.3 seconds.
- Ash from the incinerator must be handled in such a manner as to prevent particulate matter from becoming airborne.

In addition, it is recommended that the incinerator is large enough to handle each day's mortalities.

## Render

Carcasses left at an off-site pickup point must be:

- Kept in an animal-proof, enclosed area.
- At least 200 yards from a neighbor's buildings.
- Picked up within 72 hours.
- If the enclosed area is refrigerated to less than 45 degrees Fahrenheit, the carcasses must be picked up within seven (7) days.

## Alternative methods

Alternative methods of mortality disposal including, but not limited to, pet food processing, fur farm consumption, lactic fermentation, extrusion, and experimental composting, require a permit from the Minnesota Board of Animal Health. For more information on alternative methods of carcass disposal, contact the Board of Animal Health at 651-296-2942.

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\*For the purpose of compost pad construction, Class V gravel material is not considered to be impervious.



**Minnesota Pollution Control Agency**

520 Lafayette Road North  
St. Paul, MN 55155-4194

# Air Emissions and Odor Management Plan

## NPDES/SDS Permit Program

Feedlot Program

Doc Type: Permit Application

**Purpose:** This *Air Emissions and Odor Management Plan* is incorporated into the National Pollutant Discharge Elimination System (NPDES)/ State Disposal System (SDS) Permit and made an enforceable part of the permit and submitted to the Minnesota Pollution Control Agency (MCPA).

Facility name: Mattison & Sons Livestock Feedlot registration no. TBD

Owner/Operator name: Trent, Taylor & Chad Mattison Feedlot permit no. NA

### Methods/Practices Used to Minimize Air Emissions and Facility Odor Sources and Anticipated Odor Control Strategies

Choose at least one option for each emission source at the facility (Minn. R. 7020.0505, subp 4.B(1)(a) & (c))

ID #	Site sketch identification number (from permit application) and List of air emissions/Odor source(s) Type of Air Emission/Odor Source	Practices employed to minimize emissions List number(s) from below	Complaint response protocol	
			Odor potential (Without BMPs*) High, Med, or Low	Anticipated odor control strategies** List number(s) from below
1	Partial Confinement Barn with Open Lot	2,6,7,8,13,21	Low	1,11,28
2	Open Lot	2,6		
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

\*BMP = Best Management Practices

\*\* In the event that odor complaints are received and validated by the MPCA/County Feedlot Officer (CFO), the facility/ownership agrees to implement the identified practices identified in this column, pursuant to MPCA request/approval.

**Practices applicable to multiple odor/emissions sources**

1. Develop a neighbor relations plan
2. Disperse/mix air with tree plantings
3. Establish adequate separation distances
4. Treatment of escaping air with control technologies
5. Reduce nutrient waste with diet manipulation

**Animal holding area(s) specific**

6. Maintain clean, dry floors to eliminate manure buildup
7. Eliminate manure buildup under gates, feeders, etc.
8. Promptly clean up any spilled feed
9. Reduce feed waste/water losses
10. Maintain exhaust fans and avoid manure and dust accumulation
11. Use spray oil to reduce dust
12. Higher oil and fat content in feed to reduce dust

**Dead animal holding/processing area(s) specific**

13. Manage mortalities as required by MN Board of Animal Health
14. Compost/manage mortalities in an enclosed structure
15. Use enclosed and refrigerated dead animal holding area

**Solid and Liquid Manure Storage Area(s) Specific**

16. Maintain crust on basin by switching to organic bedding
17. Cover liquid manure storage area with straw
18. Notify neighbors of manure agitation periods and avoid holidays
19. Cover liquid manure storage area with synthetic cover
20. Addition of chemicals to manure to reduce odor/emissions
21. Add straw or other bedding material to reduce odor/ emissions
22. Separate solids with settling basin or liquid/solid separator
23. Anaerobic digestion
24. Reduce length of time stockpile/manure pack is maintained
25. Solid manure composting
26. Cover the solid manure stockpile
27. Incinerate solid manure at approved/permitted facility

**Other practices**

28. I will consult the MPCA/CFO to identify changes that can be made to reduce odors following complaints  
(*anticipated odor control strategies column only*)
29. Other: \_\_\_\_\_
30. Other: \_\_\_\_\_



# Response to Documented Exceedance(s)

(Minn. R. 7020.0505, subp 4.B(1)(b))

Initial here: TM, TM, CM,

**by initialing here I indicate that I have read, understand, and agree to the requirements/procedures outlined below.** (initial is required for all facilities using this form)

In the event testing/monitoring conducted by the MPCA/County identify emissions in excess of standards set in applicable Minnesota Rules, Statutes, or other directives, the facility/ownership agrees to submit a plan of action following MPCA's request, which provides technical documentation that one (or more) of the following technologies will effectively control emissions in the short term as well as into the future:

## Liquid Manure Storage Areas (LMSA)

- Chemical additions to the LMSA
- Maintain natural crusting (blow straw to promote crusting if necessary)
- Maintain a straw cover
- Permeable synthetic cover (floating geo-textile, etc.)
- Impermeable synthetic cover (floating High Density Polyethylene [HDPE], etc.)
- Anaerobic digester
- Treatment of escaping air with odor control technologies

## Solid Manure Storage Areas

- Cover manure stockpiles with synthetic covers
- Remove manure packs more frequently
- Eliminate stockpiling by more frequent land application
- Incinerate solid manure for electricity
- Composting solid manure

## Animal Holding Areas

- Utilize bio-filters or other odor control technology for power ventilated buildings
- Decrease the amount of manure buildup in the animal holding areas

## Dead Animal Handling/Processing Areas

- Utilize enclosed and refrigerated dead animal holding area prior to rendering pick-up
- Animal mortality composting

The MPCA will, at its discretion, consider alternatives to the technologies listed above provided proper technical documentation is submitted that illustrates the alternative will undoubtedly minimize the emissions. The MPCA reserves the right to disapprove of the alternative if the MPCA deems the technical documentation incomplete or inaccurate or if the MPCA deems the alternative unsuitable for the unique circumstances at the facility.

The plan of action must identify when the technology will be installed and fully operational and should also identify what temporary measures can be taken to minimize emissions in the event the chosen technology will take a significant amount of time to install and make fully operational. The plan of action will be immediately implemented following approval by the MPCA and become part of this air emission and odor management plan and subsequently an enforceable part of the facility's NPDES/SDS Permit.

**Well Construction Assessment Form**

**Reference Number: 2023-1635**

Date Submitted to DNR: May 24, 2023 at 11:30 AM

DNR Lead Hydrologist: Kyle Jarcho  
Area: Marshall  
Email: Kyle.Jarcho@state.mn.us  
Phone: 507-537-6605

DNR Region: Southern Region 4  
Address: Minnesota Department of Natural Resources  
1400 E Lyon St  
Marshall, MN 56258

**Parties** *(Individuals and Organizations associated with the assessment)*

Mattison & Sons Livestock - Landowner or Government Unit

Address: 21181 160th St., Revere, MN 56166  
Phone: 507-430-3155

Jay Murphy - Contact *(representing Centrol Crop Consulting)*  
*(submitted application)*

Address: 351 Burlington Circle, Marshall, MN 56258  
Phone: 507-828-4011  
Email: jmurphy@centrol.com

Trent Mattison - Contact *(representing Mattison & Sons Livestock)*

Address: 21181 160th St, Revere, MN 56166  
Phone: 507-430-3155  
Email: mattison08@hotmail.com

Centrol Crop Consulting - Agent

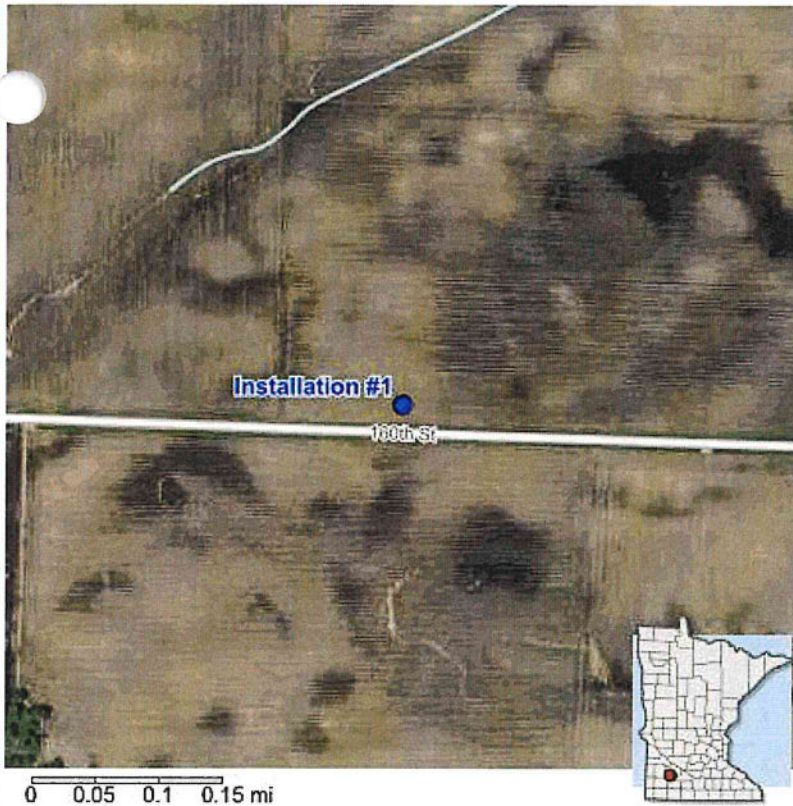
Address: 351 Burlington Circle, Marshall, MN 56258  
Phone: 507-828-4011

**Proposed Activity**

Livestock Watering



## Location and Water Resources



**Installation Name:** Installation #1

**Counties:** Redwood

**Watersheds:** Cottonwood River

**PLS:** T109N-R38W-S1 NWNE, T110N-R38W-S36  
SWSE

**UTM:** X:311877 Y:4905984

**Water Resources:** Groundwater

## Well Construction Assessment Overview

<input type="radio"/>	If drilled, would this well(s) be connected to an existing system that is already covered by a DNR water appropriation permit?	No
2	Which of the following most accurately describes what you are proposing?	Drilling one (1) new well
3	What is the maximum desired pumping rate for the entire system (in gpm)?	7.5
4	How many individual wells are you planning to drill at this time?	1
5	What is the maximum volume of water you think you will need per year (in million gallons), if known? (For example, enter 2,500,000 gallons as 2.5)	4 million gallons per year
6	If you are not the well driller, please provide their name, phone number, and email address. (if known)	Steffl Drilling & Pump 2295 66th Ave Willimar, MN 56201
7	What is the county property parcel ID# for the land where the well(s) are proposed to be drilled (enter multiple if applicable)? (if known)	New Site. To be determined.

## Activity Detail

**Activity:** Livestock Watering

## Activity Detail (Continued)

I don't know how much water I need N/A

Number of animals by type and growth stage:

Beef Cows - slaughter steer or stock cow 990

Estimate the number of days you will be using water during the year (include the days you will have animals on site and the days you will be using water for cleaning and sanitation). 3,910,000

## Installation

Installation Name: Installation #1 (Well)

1	What is the estimated proposed depth (in feet) of the well? (if known)	150 feet
2	What is the water source formation?	Unknown
3	What is the maximum desired pumping rate (in gpm) for this well?	8 gallons per minute
4	Counties	Redwood
5	Watersheds	Cottonwood River
6	PLS	T109N-R38W-S1 NWNE, T110N-R38W-S36 SWSE
7	UTMXY	X:311877 Y:4905984
8	Water resources	Groundwater

## Acknowledgment (By the party who submitted the well assessment)



I attest that:

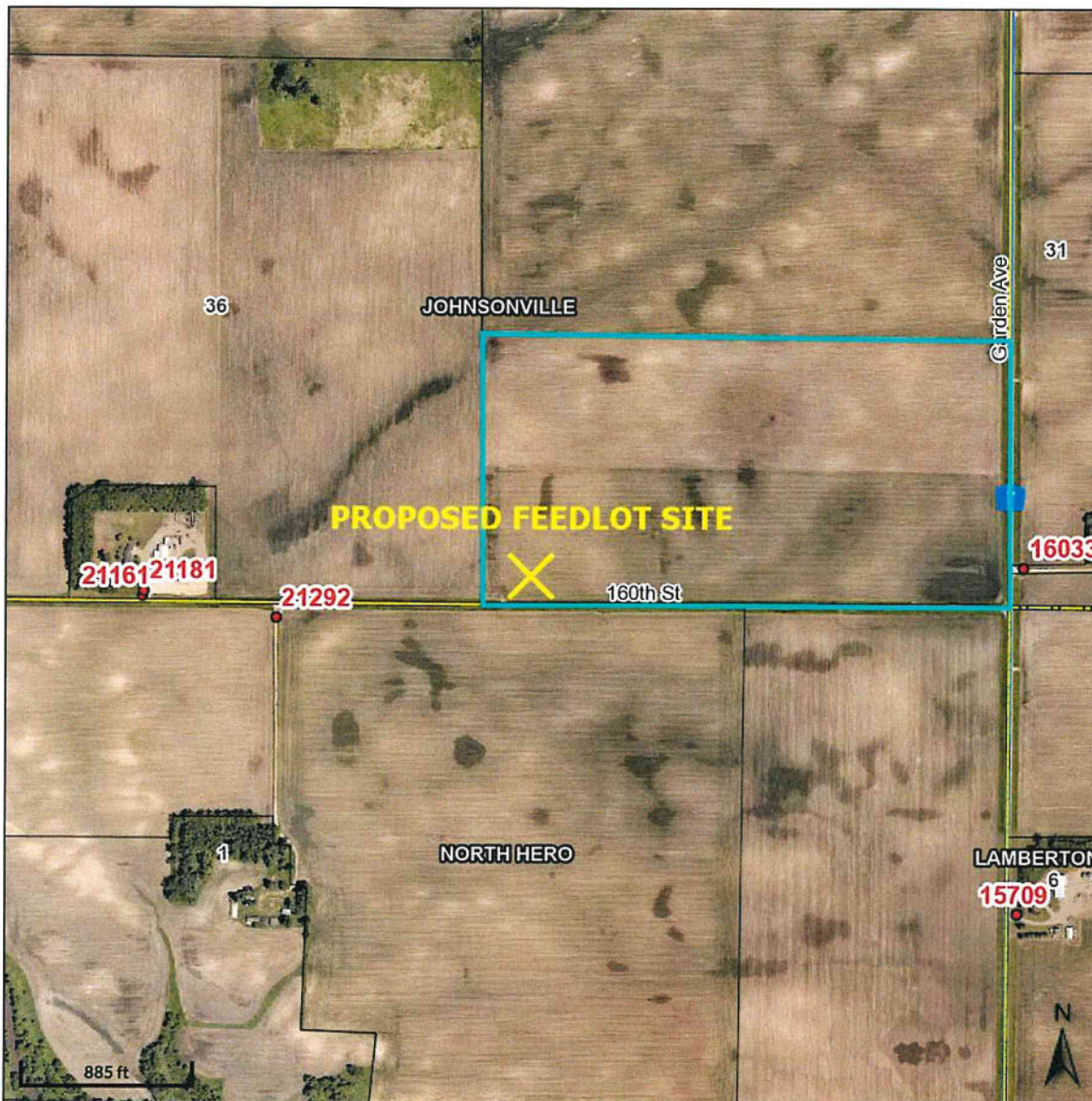
- I own or control (by lease, license, or other permission) the land from which groundwater or surface water will be appropriated, AND
- There are no easements or other restrictions on the land that would prohibit the proposed activities from being authorized under a permit, AND
- I possess the authority to undertake the work described, or I am acting as a duly authorized agent, AND
- The information submitted and the statements made concerning this application are true and correct to the best of my knowledge, AND
- If I drill the proposed well, I will apply for and receive a DNR water use permit prior to pumping.

PRINTED: 05/24/2023 at 11:30 AM

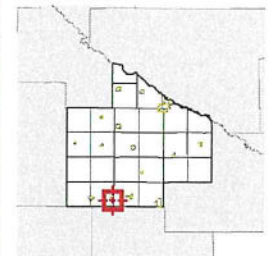


# AREA MAP

Created by: NB



## Overview



## Legend

- Municipal Boundaries
- Surrounding Counties
- Townships
- Address Points
- Parcels
- Subdivisions
- Major Roads**
  - State/Federal
  - County
  - County/Twp/City
  - Minor Roads

Parcel ID	56-036-4020	Alternate ID	n/a	Owner Address	MATTISON/LUVERN
Sec/Twp/Rng	36-110-38	Class	AGRICULTURE		903 S CHERRY ST
Property Address		Acres	80.0		LAMBERTON MN 56152-1057
District	n/a				
Brief Tax Description	S1/2 SE1/4 80.A M/L				
	(Note: Not to be used on legal documents)				

Date created: 6/21/2023  
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 GEOSPATIAL

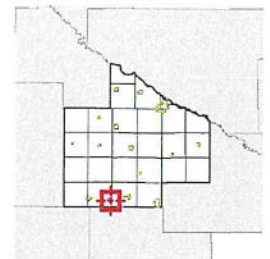


# COUNTY TILE MAP

Created by: NB



## Overview



## Legend

- Municipal Boundaries
- Surrounding Counties
- Townships
- Open Ditch
- Drain Tile
- Parcels
- Subdivisions
- Major Roads**
- State/Federal
- County
- County/Twp/City
- Minor Roads

Parcel ID	56-036-4020	Alternate ID	n/a	Owner Address	MATTISON/LUVERN
Sec/Twp/Rng	36-110-38	Class	AGRICULTURE		903 S CHERRY ST
Property Address		Acreage	80.0		LAMBERTON MN 56152-1057
District	n/a				
Brief Tax Description	S1/2 SE1/4 80.A M/L				
	<i>(Note: Not to be used on legal documents)</i>				

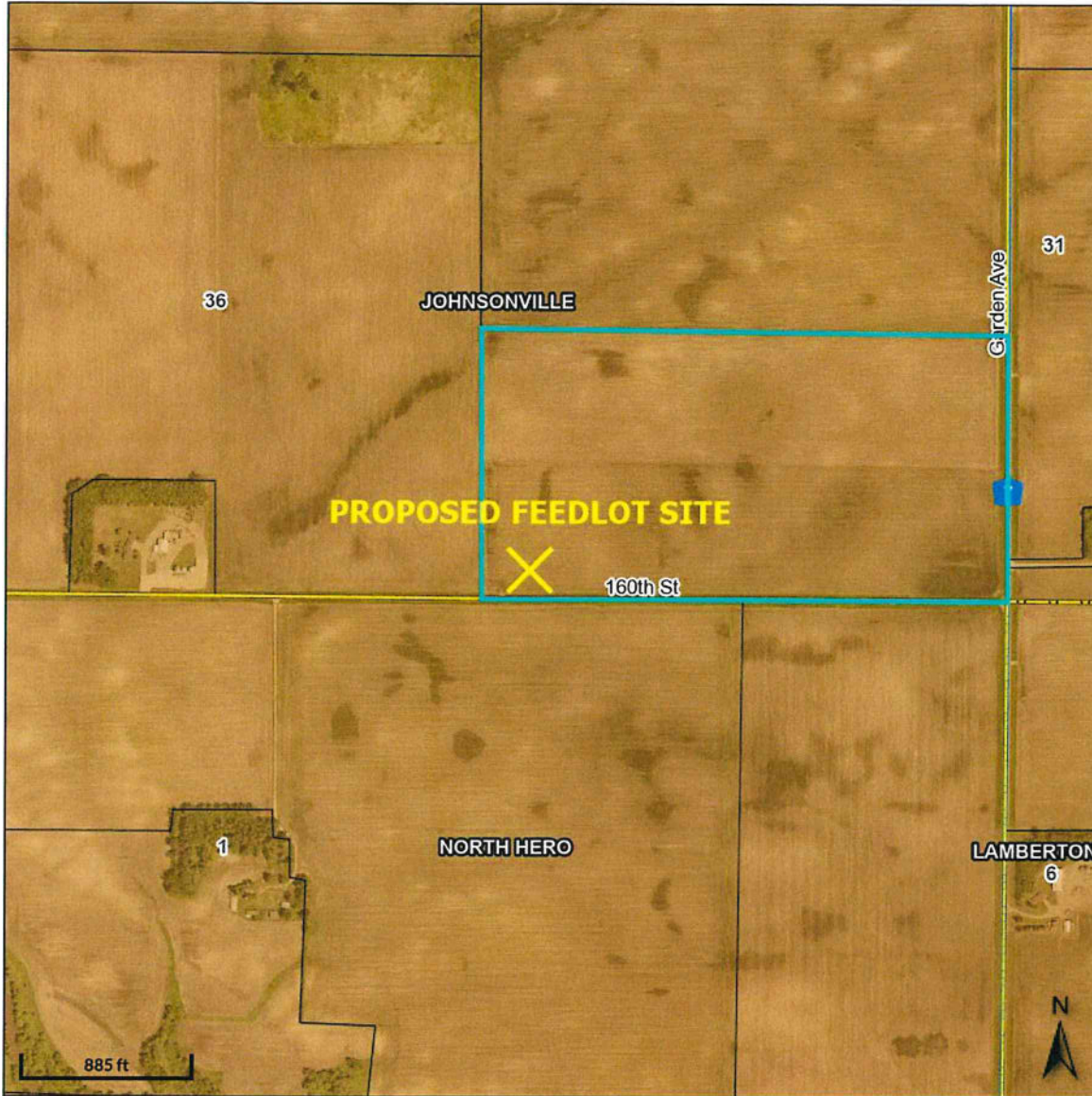
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Developed by Schneider  
 GEOSPATIAL

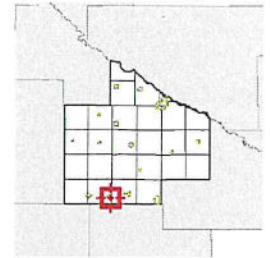


# ZONING DISTRICT MAP

Created by: NB



## Overview



## Legend

- Municipal Boundaries
- Surrounding Counties
- Townships
- Parcels
- Subdivisions
- County Zoning**
- B1
- I1
- R1
- S
- UE
- 2M
- AG
- Major Roads**
- State/Federal
- County
- County/Twp/City
- Minor Roads

Parcel ID	56-036-4020	Alternate ID	n/a	Owner Address	MATTISON/LUVERN
Sec/Twp/Rng	36-110-38	Class	AGRICULTURE		903 S CHERRY ST
Property Address		Acreage	80.0		LAMBERTON MN 56152-1057
District	n/a				
Brief Tax Description	S1/2 SE1/4 80.A M/L				
	<i>(Note: Not to be used on legal documents)</i>				

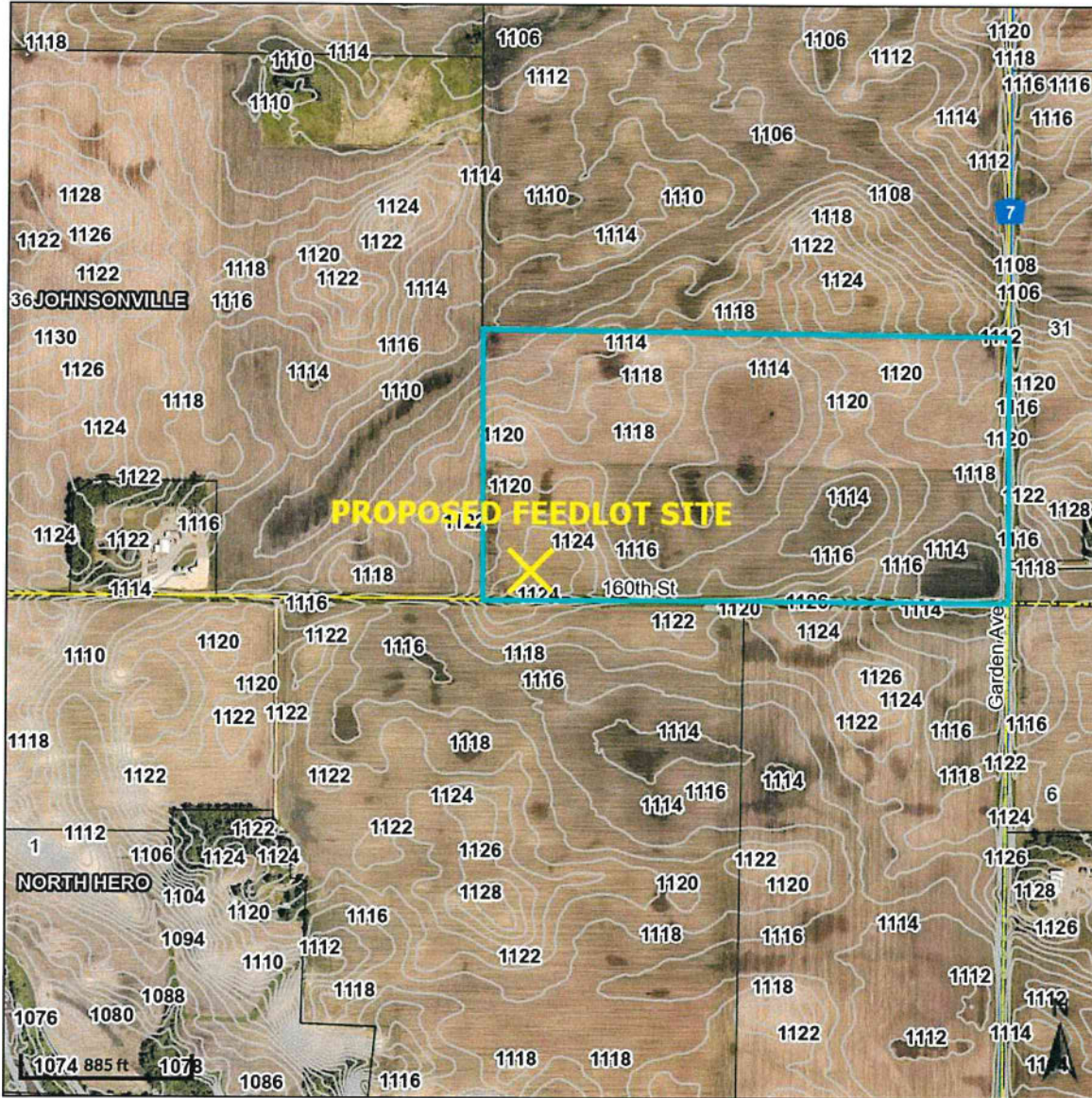
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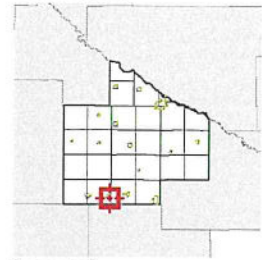


# ELEVATION CONTOUR MAP

Created by: NB



## Overview



## Legend

- Municipal Boundaries
- Surrounding Counties
- Townships
- Contours
- Parcels
- Subdivisions
- Major Roads**
- State/Federal
- County
- County/Twp/City
- Minor Roads

Parcel ID	56-036-4020	Alternate ID	n/a	Owner Address	MATTISON/LUVERN
Sec/Twp/Rng	36-110-38	Class	AGRICULTURE		903 S CHERRY ST
Property Address		Acreage	80.0		LAMBERTON MN 56152-1057
District	n/a				
Brief Tax Description	S1/2 SE1/4 80.AM/L				
	(Note: Not to be used on legal documents)				

Date created: 6/21/2023  
 Last Data Uploaded: 6/20/2023 9:28:59 PM

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# OFFSET Summary and Results



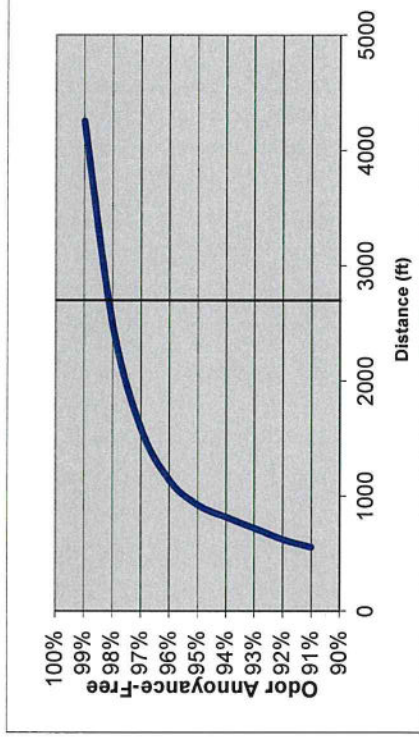
Farm Name	Mattison & Sons Livestock
County	to 15709 CSAH 7
Evaluator	NB
Date	6/14/23

Source Characteristics Summary		Flux Rates (with control technology)				Source Emission Rates*					
Similar Sources	Emit Area sq ft	Control Technology Type	Percent Treated	Odor ou/s/m2	OFFSET OER	H2S ug/s/m2	Ammonia ug/s/m2	Odor ou/s	H2S ug/s	Ammonia ug/s	
Beef - loose housing	1	25000	None	0%	1.2	6.0	1.7	25.0	2858	3950	56094
<b>Area Sources</b>											
Open lot Dairy or Beef	43000	None		4.3	4	0.0	0.0	17187	0	0	
Open lot Dairy or Beef	25000	None		4.3	4.0	0.0	0.0	9992	0	0	

\*includes control technologies

Site Emissions	
Total Site Area (ft2)	93,000
Total Odor Emission Factor (TOEF)	42
Total Site H2S Emissions (mg/s)	4
Total Site H2S Emission AVERAGE (lbs/day)	1
Total Site H2S Emission MAX (lbs/day)	2
Total Site H2S Emissions (tons/yr)	0
Total Site Ammonia Emissions (mg/s)	58
Total Site Ammonia Emission AVERAGE (lbs/day)	11
Total Site Ammonia Emissions MAX (lbs/day)	22
Total Site Ammonia Emissions (tons/yr)	2

Source Edge to Nearest Neighbor (ft)	2700
OFFSET Annoyance-free frequency	98%





**Conditions for Permit No. 6-23 (Trent Mattison)**

1. The permit holder shall comply with all applicable laws, rules, and regulations, including but not limited to Redwood County Ordinance, as hereafter amended from time to time. If a permit and/or license is required by the local, state, or federal authorities/entities, the permit holder shall apply for and obtain any and all required permits and/or licenses. A copy of all such permits and/or licenses shall be provided to the Redwood County Environmental Office within thirty (30) days of the date the permit holder received the same.
2. The permit holder shall allow the Redwood County Environmental Office to inspect the site for all purposes permitted by law whenever deemed necessary by the Redwood County Environmental Office.
3. All waste, refuse, and the like generated by or from the conditional use must be disposed of in the manner provided by the applicable local, state, and federal statutes, rules, and regulations.
4. The permit holder shall take appropriate and reasonable measures to assure that all surface water runoff satisfies all applicable local, state, and federal discharge standards.
5. The permit holder shall not allow the conditional use to be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted. The permit holder shall not allow the conditional use to impede the normal and orderly development and improvement of surrounding vacant property for uses predominant to the area. Adequate measures shall be taken to prevent or control offensive odor, fumes, dust, and vibration, so that none of the foregoing will constitute a nuisance now or in the future.
6. Adequate utilities, access roads, drainage, and other necessary facilities shall be provided and continue to be provided by the permit holder now and in the future.
7. The manner in which manure is stored and disposed of shall comply with all applicable local, state, and federal laws, rules, and regulations. If manure is applied to land, it shall be applied to land at agronomic rates. Liquid manure shall be injected or incorporated within 24 hours. Temporary manure stockpiles must follow the setbacks required in Redwood County Ordinance, and any state or federal rules. The permit holder shall retain a record of all locations where manure is applied to land. Such records shall be maintained for a period of no less than five (5) years, measured from the date the manure is applied to land. Such records shall be submitted to the Redwood County Environmental Office upon request. The permit holder shall report any changes in spread agreements or spread areas to the Redwood County Environmental Office within thirty (30) days subsequent to any such change.
8. The permit holder shall abide by the Odor Management Plan attached to the application, or by any amended plan approved by the Zoning Administrator.
9. The County Board of Commissioners may at any time impose additional conditions as necessary and appropriate including but not limited to: the planting of trees and shrubs for use as a windbreak for the feedlot operation; the furnishing and placing in a dedicated account, to be administered by the County, an annual payment for reclamation purposes based upon the number of Animal Units

involved; and restrictions on the days on which a manure storage structure may be disturbed or manure may be transferred, applied, incorporated, or injected.

10. Dead livestock shall be stored in such a manner as to not create a nuisance. Disposal of dead livestock by burial is strictly prohibited.
11. The permit holder shall construct the manure storage structure/concrete pit(s) to meet or exceed the minimum requirements set forth in the plans and specifications prepared by Brent Louwagie, P.E. and signed by him on May 31, 2023, attached to the permit holder's application.
12. The Redwood County Planning Commission shall review the conditional use permit and shall be authorized to take any and all necessary action(s), including but not limited to revoking the conditional use permit and/or requiring the permit holder to reapply for a conditional use permit, if: 1) The Redwood County Environmental Office acquires information previously unavailable that indicates the terms and conditions of the permit do not accurately represent the actual circumstances of the permitted facility or the conditional use; 2) It is discovered subsequent to the issuance of the permit the permit holder failed to disclose all facts relevant to the issuance of the permit or submitted false or misleading information to the Redwood County Environmental Office, the Redwood County Planning Commission, or the Redwood County Board of Commissioners; 3) The Redwood County Environmental Office determines the permitted facility or conditional use endangers human health or the environment; and/or (4) The permit holder violates any of the herein described conditions.



**TO: Whom It May Concern**

**FROM: Nick Brozek NB**  
**Land Use and Zoning Supervisor**  
**Redwood County Environmental Office**



**DATE: June 14, 2023**

**RE: Notice of Public Hearing on Animal Confinement Feedlot Conditional Use Permit Application**

Please find enclosed a *Notice of Public Hearing* regarding an *Animal Confinement Feedlot Conditional Use Permit Application* filed by Trent Mattison of Mattison & Sons Livestock pursuant to Minnesota Statute 116 and Redwood County Code of Ordinances, Title XV, Sections 153.290 and 153.142, to construct and operate a cattle finishing feedlot. The feedlot is proposed to consist of a partial confinement cattle barn and open lots with a total capacity of 990 head of beef cattle (990 animal units). The feedlot will utilize manure pack manure storage and temporary field stockpiles. The feedlot will be located on the following described real property, situated in the County of Redwood, State of Minnesota, to wit:

The South Half of the Southeast Quarter (S1/2 SE1/4) of Section 36, Township 110 North, Range 38 West, Johnsonville Township.

A public hearing thereon will be held before the Redwood County Planning Commission at the Planning Commission meeting starting at 1:00 o'clock p.m. on Tuesday, the 27<sup>th</sup> day of June, 2023, at the Board Room in the Redwood County Government Center located at 403 South Mill Street, Redwood Falls, MN 56283.

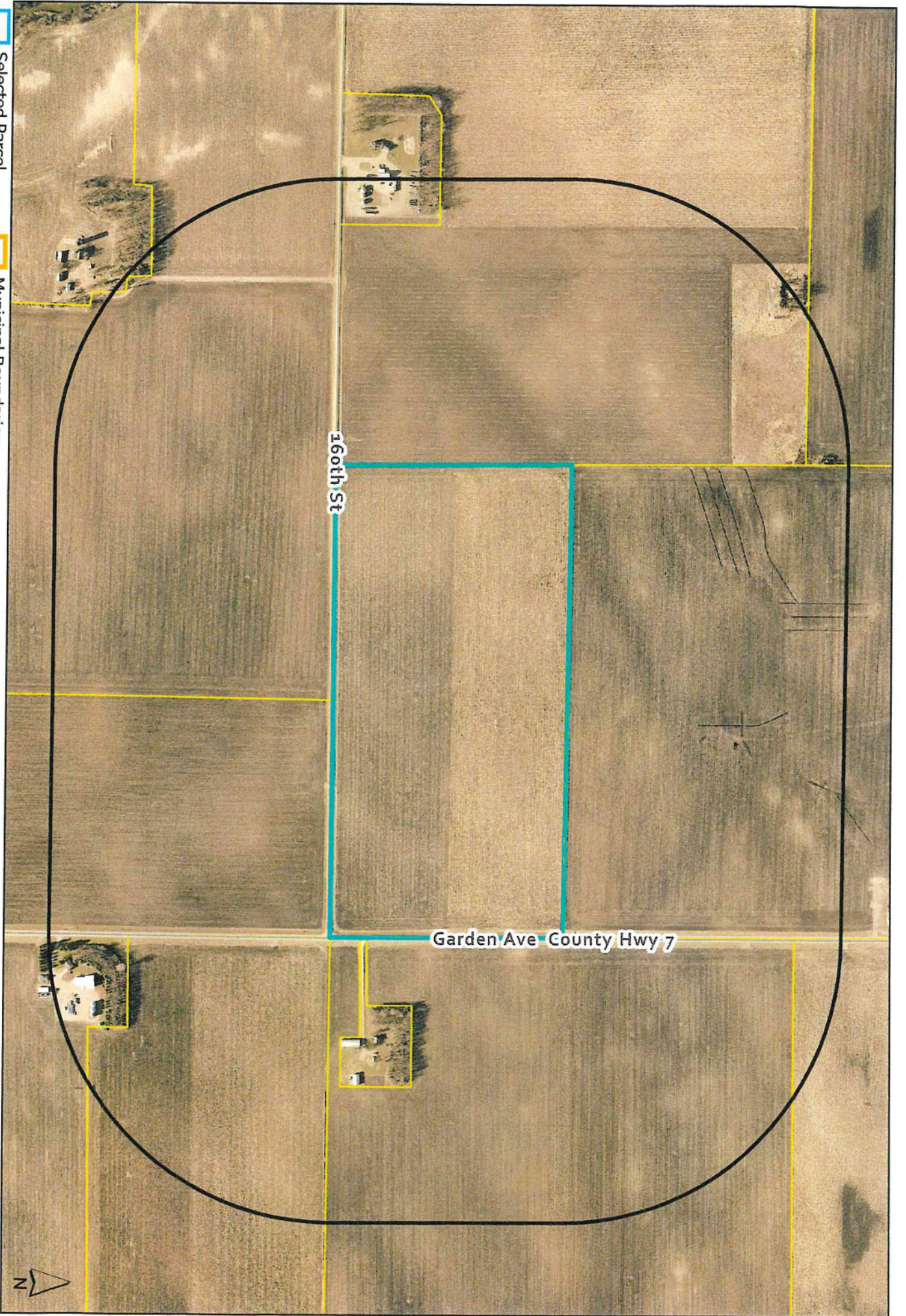
Pursuant to Redwood County Zoning Ordinance, all property owners of record within five hundred (500) feet in incorporated areas and/or one-quarter (1/4) of a mile of the affected property or the ten (10) properties nearest to the affected property, whichever would provide notice to the greatest number of landowners in the unincorporated areas, the township in which the affected property is located, and all municipalities within two (2) miles of the property are required to be notified in writing of the time and place of the public hearing.

If you have any comments or questions regarding this matter, please contact the Redwood County Environmental Office by telephone at (507) 637-4023, via email at [Environmental@co.redwood.mn.us](mailto:Environmental@co.redwood.mn.us), or in writing at *Redwood County Environmental Office, P.O. Box 130, Redwood Falls, MN 56283*.

Enclosure


Cc: Jay Murphy, Centrol Crop Consulting (w/ encl)






 Selected Parcel

 Notification Area

 Parcels

 Municipal Boundaries

 Sections

 Roads

**CUP Notification Area:**  
**0.30 miles from selected parcel**

0 325 650 1,300  
Feet

Parcel IDs: 56-036-4020







Parcel ID	NAME	C/O	Address	CITY	STATE	ZIP
610011040	AHLRICHS/ALICIA A		350 MAIN ST N #328	STILLWATER	MN	55082-6751
560361040	FULTS/GREGORY & JOYCE		12420 LAKE LN	LINDSTROM	MN	55045-1000
730313040	HULKE/CAROL J/ETAL		5283 ASHLAR DR	BLOOMINGTON	MN	55437
610011020	HULKE/RALPH L & CAROL J	ETAL	5283 ASHLAR DR	BLOOMINGTON	MN	55437-3363
560363040	MATTISON/ROANE/TRUST	% LUVERNE MATTISON	903 S CHERRY ST	LAMBERTON	MN	56152-1057
730313020	MATTISON/TAYLOR R & ERICA L		16033 GARDEN AVE	LAMBERTON	MN	56152
560363020	MATTISON/TRENT & TARYN	MATTISON/CHAD MICHAEL	21161 160 ST	REVERE	MN	56166
560362020	MEYER/BARBARA A/	REVOCABLE TRUST ETAL	3837 OVERLOOK CT	EAGAN	MN	55123
730312040	RASMUSSEN FARMS OF WALNUT GROVE LLC		17698 CO HWY 4	WALNUT GROVE	MN	56180
580062020	SCHAFFRAN/BERNARD L		15709 GARDEN AVE	LAMBERTON	MN	56152-9769
610012020	SCHROEPFER/GLEN & DIANE	PATRICK & MARLENE SCHROEPFER	17238 CO HWY 6	LAMBERTON	MN	56152
	JOHNSONVILLE TOWNSHIP BOAR	% ANDREA STRAND, CLERK	24343 COUNTY HWY 10	LUCAN	MN	56255
	MN DNR	% KYLE JARCHO, AREA HYDROLOGIST	1400 E LYON	MARSHALL	MN	56258
	LUVERNE MATTISON		903 S CHERRY ST	LAMBERTON	MN	56152