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WATER PROTECTION BUREAU

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90	Agency Use
ce	Permit No.: MTG070172
	Date Rec'd 4, 18, 24
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Check No.

Rec'd By

FORM
NOI-NMP
CAFO

Notice of Intent (NOI) and Nutrient Management Plan (NMP)
Concentrated Animal Feeding Operation General Permit
MTG010000

form, Concentrated Animal Feeding Operation (CAFO) operators must read the CAFO General Permit. CAFO operators are also advised to read the attached NOI-NMP instructions before completing this form. You must print or type legibly; forms that are not legible, not complete, or unsigned will be rejected. You must maintain a copy of the completed NOI-NMP form for your records.		
CAFO Status and Fee		
Permit Authorization Number:	MTG010172	
Select Appropriate Fee:	☐ New Application: \$1200 ☐ Renewal Application: \$600 ☐ Permit Modification: \$600	

This application form is comprised of the NOI (Sections 1-5) and the NIVIP (Sections 6-10). Before completing the NOI-NIVIP

Sections 1 through 5 consist of the NOI. The application form is to be completed by the owner or operator of a Concentrated Animal Feeding Operation (CAFO).

Section 1 - Facility/Site Information	
Facility Name Location (Physical address or Directions)	Milford Colony 9605 Hwy 287 Wolf Creek MT
Nearest City or Town	Augusta
Zip Code, County	59648 Lewis - Clark County
Facility Latitude, Longitude	47.32939 . 112.21113
Date facility began operation	1945
Status of Applicant	☐ Federal ☐ State ☐ No ☑ Private ☐ Other
Located on Tribal Lands?	No Yes (If yes, obtain the permit through EPA, not DEQ)
	Continue to Page 2
	DEQ WATER QUALITY DIVISION DEQ WATER QUALITY DIVISION DEQ WATER QUALITY DIVISION

Section 2 – Representatives		
2.1 Applicant (Owner/Operator)		
	e discharges and compliance with the terms and conditions of the permit. The cation requirements listed in the Certification Section at this end of this form.	
Owner/Operator Formal Name	Milford Colony	
Mailing Address	9605 HWY 287	
City, State, Zip Code	Wolf Creek MT 59648	
Contact Information F	Phone 406-562-3320 mEmail plumber, mc@colonymt.	
2.2 Authorized Representative		
individual(s) or position must be identified. If designation is made in writing [ARM 17.30.1 Select Appropriate Box: No authorized representative for this permit	signed by anyone other than the signatory/responsible official, a duly authorized fone is not designated, than all reports must be signed by the signatory until such 232(2)]. is designated at this time (continue to Section 3) presentative for this permit (provide the information below):	
Authorized Representative Information:	0: 1	
Authorized Representative Name	John Hofer Title Plumber	
Company Name	n. Iford Colony	
Mailing Address 9	605 HUV 287	
City, State, Zip Code	Jolf Creek MT 59648	
Contact Information Phone	e406-562-3320366 Email plumber, mc@colonymficen	
Section 3 – Business Description		
3.1 SIC Codes and NAICS Codes		
	fication (SIC) code and one North American Industry Classification System (NAICS)	
code which best reflects the products or service		
SIC Code Description	NAICS Code Description	
(1) 213 Hogs	(1) 11221 Hag and Pig farming	
(2) 259 Foultry and (3) 251 Broid, free	Eggs. Ducks (2) 11234 Chricken egg Production of and Roaster (3) 11232 Hard Brailers and Acad	
(3) 251 Bronkly tryel	(4)	
SIC Code Examples: 211 Beef Cattle Feedlots	NAICS Code Examples:	
212 Beef Cattle, Except Feedlots	112112 Cattle Feedlots 112111 Beef Cattle Ranching and Farming	
213 Hogs	-	
213 Hogs 214 Sheep and Goats 11221 Hog and Pig Farming 11240 Sheep Farming		
241 Dairy Fanns	11212 Dairy Cattle and Milk Production	
251 Broiler, Fryer and Roaster Chicken		
252 Chicken Eggs	11234 Chicken Egg Production	
253 Turkeys and Turkey Eggs 11233 Turkey Production		
254 Poultry Hatcheries 11234 Poultry Hatcheries		
259 Poultry and Eggs, not elsewhere cla272 Horses and other Equines	7	
212 Horses and other Eduines	112020 Horses and other Fauing Production	

3.2 Facility or Operation Description				
Provide a brief description of the nature of the facility (feedlot, stockyard, sale barn, etc.)				
Multi-animal feeding operation.				
3.3 Existing or Pending Permits, Certification, or Approvals				
□ None aplication being workedon □ RCRA				
□ None aplication being Workeron □ RCRA □ Other □ Other				
☐ PSD (Air Emissions) ☐ Other				
☐ 404 Pennit (Dredge and Fill)				
Section 4 – Outfalls				
1.1 Receiving Water				
For each outfall, provide the latitude and longitude (to the nearest decimal degree) and the name of the receiving water. If the receiving water/drainage is unnamed, indicate the closest named drainage it flows into (i.e., "unnamed tributary to Clear Creek"). Attach additional sheets if necessary for more outfalls. This section must not be left blank, and "N/A" is not acceptable.				
Outfall Latitude Longitude Name of Receiving Water				
001 47.32473 112.20456 Flat Creek				
Section 5 – Characteristics				
5.1 Impaired Waters 303(d) Identify whether the receiving water is impaired for nutrients. Check the Clean Water Act Information Center database at https://dcq.mt.gov/water/resources to determine if the receiving water is impaired for nutrients (total nitrogen and/or total phosphorus). The receiving water is impaired for nutrients The receiving water is NOT impaired for nutrients				
Continue to Page 4				

57	Anima	Confinement
7.4	Allima	C.ORHIHICHICH

Report the maximum number of each type of animal confined at any one time in open confinement and/or housed under a roof.

Animal type	Number in Open Confinement	Number Housed Under Roof
Mature Dairy Cows		
Veal Calves		
Cattle including dairy Heifers	XÝXXX	436
Swine 55 lbs. or over		
Swine 55 lbs. or under Iso ween 12/16	30,000×	30,000
Horses	,	/
Sheep or Lambs		
Turkeys		2.000
Chicken broilers -includes juveniles		2,000 2,000
Chicken layers -includes juveniles		32,000
Ducks		7500
Other Specify:		
Other Specify:		

e 3	D .:	0	E 42	
2.3	Kain	Gage	Location	l

Identify the nearest gage station or onsite rain gage. Provide either the Station ID of the gage or a latitude and longitude.
Station ID Casite OR
Latitude, Longitude 112.17, 47.3
5.4 Containment Structures
Were the containment structures built after February 2006? ☑ Yes. Skip the following 3 questions and continue to the table below. ☐ No. Complete the questions and table below.
Do the livestock waste control facilities have 10 feet of separation between the pond bottom and any bedrock formations? □ Yes □ No
Do the waste containment structures have 4 feet of separation from the pond bottom to any ground water? Yes No
Do the livestock waste control facilities comply with the applicable well setbacks? ☑ Yes ☐ No
Continue to Page 5

Identify the type of containment/storage, the total capacity with units, and the number of days of storage in each:

Type of Containment/Storage	Total Capacity	Units (gallons or tons)	Days of Storage
Anaerobic Lagoon	5,500,000	gallons	365
Storage Pond #1 Setting	300,000	gallons	365
Storage Pond #2	J		
Storage Pond #3			
Storage Pond #4			
Storage Pond #5			
Above Ground Storage Tank #1			
Above Ground Storage Tank #2			
Above Ground Storage Tank #3			
Underfloor Pits	176,000	Cabic Ft	30
Below Ground Storage Tank	7		
Roofed Storage Shed			
Concrete Pad	700	Tons	345
Impervious Soil Pad			
Other Specify: Everyone	2,500,000	Gal	
Other Specify:	, ,		

-	C	~	TY . 2. 24 . 4
2.3	DARGE	Grause	Habitat

Visit the Montana Sage Grouse Habitat Conservation Program	(Program) website at https://sagegrouse.mt.gov/ to determine if
the proposed operation is located in designated sage grouse co	re, general, or connectivity habitat.

☐ Yes. Submit an application to the Program and attach the required consultation letter.

W No. No additional information is required.

5.6 New Source/Operation

Is this a new source and/or operation? New sources must obtain analyses from the Montana Natural Heritage Program (MTNHP) and Montana State Historic Preservation Office (SHPO) demonstrating possible impacts to wildlife and cultural resources, respectively.

☐ Yes. Attach project review analyses from MTNHP and SHPO.

No. No additional information is required

Continue to Page 6

Sections 6 through 10 consist of the Nutrient Management Plan (NMP). These sections are intended to help CAFO operators develop a site-specific NMP required by the CAFO General Permit. Your NMP must be kept at the operation. Attach additional pages as necessary, indicating the corresponding section number on this NMP form.

Section 6 - NMP Minimum Elements

Facility Photos and Maps

Facilities must attach photos and maps depicting the following:

- The production area that shows the locations of all animal confinement structures described in the Animal Type, Storage Location, and Generation Rates Table.
- The flow direction of storm water and wastewater for all animal confinement structures described in the Animal Type, Storage Location, and Generation Rates Table.
- Manure and wastewater handling and storage areas
- Raw material handling and storage areas
- Storage and disposal areas of chemicals or other contaminants handled on site
- All land application areas (include topography and soil types)
- Environmentally sensitive areas (sinkholes, wells, drinking water sources, tile drain outlets, etc.) for the production area
- Illustrate the facility/activity boundaries, receiving water, and major drainage patterns
- Identify the specific location of the production area and the land application area(s)
- ☐ I have attached photos and maps (aerial and topographic) that meet the above requirements.

6.1 Ensure Adequate Storage Capacity

Complete the table below: Be sure to identify each type of animal confined at this facility. This could include animals of a given species, weight class, or housed for a specific purpose.

Animal Type	Waste Storage Location	Maximum Number of Animals at Any Time	Number of Days/Year on Site	Annual manur process wa produc Dry (tons/yr)	stewater
1. Pigs	Anarabic lagoent Pa	(30,000)	365	216	2,000,000
2. chickens	concrete pad	32,000	365	288	1 9
3. broilers	concrete pad	Q008	365	10	
4. Dacks	concrete pad	500	365	in with be oilers	
5. Range Cours	backgrounded	-465	365	-	
6. Turkeys	concrete pad	2000	365	in with	
7.					
8.					
9.					
10.					
11.					



Methods for estimating animal manual	re, litter, and process wastewater production	
Describe the methods used for estimating animal manure, litter, and process wastewater production: Include all formulas, factors, references to tables, and other resources used to calculate manure, litter, and wastewater production. Be sure to account		
for soiled bedding materials. <u>ueighed</u> by tro	ack	
	tered out	
Manure handling:		
	vastewater handling at the CAFO. Mark all that apply:	
☐ Stored in pens ☑ Stored on stacking pad	 Direct pipe to liquid impoundment Stored under floor pit	
☐ Composting on site	回 Stored under froof pit E Separator	
☐ Other	•	
Frequency of manure removal from	confinement areas:	
☐ Bi-annually	As necded	
☐ Annually	Other	
E No.	ewater temporarily stored in any location other than the pr	roduction area?
Is dry manure and/or litter stored on ☐ No. ☐ Yes Describe the type and char	an impervious surface?	
Waste control structures:	<u> </u>	
	at your facility location. Refer to the map provided	<u>3 in</u>
Provide the annual precipitation duri mid-October to mid-April)	ing critical winter storage period (180 days from	<u>4 in</u>
	diversions. This is the area that is inside the BMPs is used to calculate volume required to hold the 24-cof your critical storage period.	25 acres
Check all the surface types within the correct units.	ne clean water diversion area and provide the coverage in	acres or ft ² . Be sure to circle th
	ft ² (circle correct unit)	
☐ Dirt <u>21.7</u> acres or acres or	ft² (circle correct unit)	
Under roof 143,555 acres or	tt ² (circle correct unit) – check if runoff is not part of clea	in water BMPs
☐ Gravel acres or	ft² (circle correct unit)	
☐ Pasture acres or ☐ Other	ft² (circle correct unit)	
11.00	Zaries of it (circle offe)	00118
	'sed B to work	Com
	twic a year	

Use the Table below to identify and describe all production area waste control structures for the production area of each animal type identified in the table "Livestock Statistics and Manure, Litter, and Process Wastewater Generation Rates" above (Section 6.1). Waste control structures may include but are not limited to: manure lagoons, manure ponds, evaporation ponds, wastewater retention ponds, contaminated runoff retention ponds, settling basins, underground storage tanks, underfloor pits, manure solids stacking pads, vegetative treatment strips, composting facilities, and dry stack facilities. Berms, dikes, concrete curbs, ditches, and waste transfer pipelines are also waste control structures and must be listed, though some of the requested measurements may not apply.

Production Area Waste Control St	ructures Description	1		
Production area Waste Control Structure (For Corresponding Animal Type Identified in Table Above)	Volume (gal if liquid) (ft³ if dry)	Number of days of storage	Winter storage depth	The 24hr-25 yr storm event depth (ft)
1. Settling	300,000001	एड कार्मित ।	every for	NAV
2. Lagour	5500000	365	Q751	MA IFT
3. Evaporation	250000		O	9
4. Stacking Paul	28.800 Et3			
5. Pits and separator	1.3 mill gallons	30	NA	NA
6.				
7.	1			
8.				
9.				
10.				
11.				
i.2 Mortality Management Check the box that describes how m ☑ Burial ☑ Composted ☐ Incineration	☐ Landfill ☐ Contractor r ☐ Other	emoval		
Provide the location where mortality	ies are disposed of,	if part of the prod 4 Ch.cke	luction area:	on hillside
3.3 Clean Water Diversion Pract				
Check all that apply for how clean well Ditches		_	area.	
☑ Ditches ☑ Earthen berms	☐ Site grading ☑ Gutters and			
区 Culverts	□ Other			

6.4 Promibiling Anim	nals and Wastes from Direct Contact with State Waters
	or how animals and wastes are prohibited from direct contact with sate waters.
Fencing	☑ Inside building
□ Wall	☐ Other
6.5 Chemicals and C	ontaminants
	ls or other contaminants handled on site as part of your CAFO operation, including, but not limited to:
pesticides, herbicides,	animal dips, disinfectants, etc. Specify the method of disposal and location stored for each corresponding map has been attached, as required in Section 6, Facility Photos and Maps.
Containers	are composed per manufactures Label
6.6 Conservation Pra	actices
production area. Be s schedule for implement descriptions. Attach ad	permanent, and structural BMPs which will be used to control runnoff of pollutants from the facility's sure to include them on the map described above in Section 6. If BMPs are not installed, include a nation of each of the following measures. Provide details and specifications to suplement the BMP additional sheets if necessary.
Ditches	☐ Site grading
Earthen berms	☑ Gutters and spouts
☐ Culverts and pipe ☐ Buffers	cs ☐ Covered Pens ☐ Other
Duneis	🗅 Other
6.7 Sampling and Ai	nalysis Procedures for Manure, Litter, Process Wastewater, and Soil
nitrogen and total pho	es of manure, litter, and process wastewater must be analyzed a minimum of once per year for total sphorus. Results should be reported in lbs/ton for solids and lbs/1000 gal for liquids. Results will be so for manure, litter, and process wastewater. Indicate your method for samping. Be sure to provide a sect "other."
☑ Sample collection	n will occur according to CAFO General Permit Section II.D.
Other	
	Continue to Page 10

Section 7 - NMP Land Application	on
Identify whether manure will be lar	nd applied to land that is owned, rented, or leased by the owner or operator of the facility.
☐ No. Explain how animal waste process wastewater. Skip to Se	e will be managed by the operation, including protocol for transfers of manure, litter, and ection 10.
Yes. Continue below.	
7.1 Land Application Photos and	Maps
Facilities that land apply must attach "None."	photos/maps clearly identify the following items. If an item is not applicable, check the box
 Individual field boundaries for 	all planned land application areas
- A name, number, letter or other	er means of identifying each individual land application field
- The soil type(s) present and th	eir locations within the individual land application field(s)
- The location of any downgrad	
setbacks	andling or nutrient management restrictions associated with each land application field i.e.
- Buffers and setbacks around s	tate surface waters, well heads, etc.
 Any downgradient open tile li None. Not included on i 	
 Any downgradient sinkholes None. Not included on a 	пар
 Any downgradient agricultur None. Not included on in	al well heads
All conduits to surface waterAll temporary, permanent, ar	s In the structural BMPs used to control runoff of pollutants from the land application area
\square I have attached photos and map	s of the site where manure is to be applied.
7.2 Protocols to Land Apply Ma	nure, Litter, or Process Wastewater
	nd structural BMPs which will be used to control runoff of pollutants from the CAFO's land use, include a schedule for implementation of each of these measures. You may supplement and specifications.
■ Buffers	E Conservation tillage
Constructed wetlands	回 Grass Filter
Intiltration field	E Residue Management
☐ Setbacks ☐ Other	☐ Terrance
7.3 Soil Phosphorus Sampling a	nd Analysis
Representative soil (composite) san analyzed for phosphorus content at Olsen P test. Results will be report	imples from the top 6 inches layer of soil for each field where manure will be applied must be a least once every three years. Analyses will be conducted by a qualified laboratory, using the ed in parts per million (ppm) and will be used in determining application rates for manure,
litter, and process wastewater.	A STATE OF THE STA
	according to Part II.D of the CAFO General Permit.
Uther (describe)	

7.4 Soil Nitrogen Sampling and Analysis
Representative composite soil samples for total nitrogen and nitrate must be collected for each field where manure will be applied. Composite samples for total nitrogen must be collected from a soil depth of 0 to 6 inches and must be analyzed at least once every 3 years. Composite samples for nitrate must be collected from a soil depth of 6 to 24 inches and must be analyzed at least once every 3 years. All samples must be analyzed according to method code 4H2al-3 in NRCS Soil Survey Laboratory Methods Manual, Soil Survey Investigation Report No. 42. Results must be reported as mg/kg total nitrogen and pounds per acre will be used in determining application rates for manure, litter, and process wastewater.
Sample collection will occur according to Part II.D of the CAFO General Permit. Other
Continue to Page 12

Secti	ion 8. NMP Application Rates
The a	applicant has 2 ways in which to report how manure or process wastewater application rates can be reported to DEQ. Select
je ⊡ l r	Linear Approach. Expresses rates of application as pounds of nitrogen and phosphorus. Complete Section 8.1, then continue to Section 9. See page 8 of the NOI-NMP Instructions for guidance on the Linear Approach. Narrative Rate Approach. Expresses a narrative rate of application that results in the amount, in tons or gallons, of manure, litter, and process wastewater to be land applied. Complete Section 8.2, then continue to section 9. See page 9 of the NOI-NMP Instructions for guidance on the Narrative Rate Approach.
8.1	Linear Approach
appli	resses rates of application as pounds of nitrogen and phosphorus. CAFOs selecting the linear approach to address rates of ication must include in the NMP submitted to the Department the following information for each crop, field, and year ered by the NMP:
	The maximum application rate (pounds/acre/year of nitrogen and phosphorus) from manure, litter, and process wastewater.
2.	The outcome of the field-specific assessment of the potential for phosphorus transport from each field. The Department does not have an N transport risk assessment, therefore the NMP must document any basis for assuming that nitrogen will be fully used by crops. The CAFO must specify any conservation practices used in calculating the risk rating.
3.	The crops to be planted or any other uses of a field such as pasture or fallow fields.
4.	The realistic annual yield goal for each crop or use identified for each field.
5.	The nitrogen and phosphorus recommendations from Department acceptable sources for each crop or use identified for each field.
6.	Credits for all residual nitrogen in each field that will be plant available.
7.	Consideration of multi-year phosphorus application. For any field where nutrients are applied at a rate based on the crop phosphorus requirement, the NMP must account for single-year nutrient applications that supply more than the crop's annual phosphorus requirement.
8.	All other additions of plant available nitrogen and phosphorus (i.e., from sources other than manure, litter, or process wastewater or credits for residual nitrogen).
9.	The form and source of manure, litter, and process wastewater to be land-applied.
10.	The timing and method of land application. The NMP also must include storage capacities needed to ensure adequate storage that accommodates the timing indicated.
11.	The methodology that will be used to account for the amount of nitrogen and phosphorus in the manure, litter, and wastewater to be applied.

12.	The maximum application rate (pounds/acre/year of nitrogen and phosphorus) from manure, litter, and process wastewater.
13.	The outcome of the field-specific assessment of the potential for phosphorus transport from each field. The Department does not have an N transport risk assessment, therefore the NMP must document any basis for assuming that nitrogen will be fully used by crops. The CAFO must specify any conservation practices used in calculating the risk rating.
14.	The crops to be planted or any other uses of a field such as pasture or fallow fields.
15.	The realistic annual yield goal for each crop or use identified for each field.
16.	The nitrogen and phosphorus recommendations from Department acceptable sources for each crop or use identified for each field.
17.	Credits for all residual nitrogen in each field that will be plant available.
18.	Consideration of multi-year phosphorus application. For any field where nutrients are applied at a rate based on the crop phosphorus requirement, the NMP must account for single-year nutrient applications that supply more than the crop's annual phosphorus requirement.
19.	All other additions of plant available nitrogen and phosphorus (i.e., from sources other than manure, litter, or process wastewater or credits for residual nitrogen)
20.	The form and source of manure, litter, and process wastewater to be land-applied.
21.	The timing and method of land application. The NMP also must include storage capacities needed to ensure adequate storage that accommodates the timing indicated.
22.	The methodology that will be used to account for the amount of nitrogen and phosphorus in the manure, litter, and wastewater to be applied.
23.	. Any other factors necessary to determine the maximum application rate identified in accordance with this Linear Approach.

Section 9 - NMP Phosphorus

Phosphorus Risk Assessment: The permittee shall assess the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using Method A or Method B (below) to complete the assessment, unless the receiving water is impaired for nutrients, then you must use method B below for phosphorus risk assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained onsite at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

Indicate which method will be used to determine phosphorus application:

- ☑ Method A Representative Soil Sample. Complete Section 9.1, then continue to Section 10.
- ☐ Method B Phosphorus Index. Complete Section 9.2, then continue to Section 10.

9.1 Method A - Representative Soil Sample

Obtain one or more representative soil sample(s) from the field per ARM 17.30.1334

Have the sample analyzed for phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm). Using the results of the Olsen P test, determine application basis according to the Table below.

Olsen P Soil Test Results (ppm)	Application Basis	
<25.0	Nitrogen Needs of Crop	
25.1 - 100.0	Phosphorus Needs of Crop	
100.0 - 150.0	Phosphorus Needs up to Crop Removal Rate	
>150.0	No Application allowed	

Olsen P Test Result: _XX_ ppm See attached soil analysis

End of Method A. Continue to Section 10

Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus Index Value	Site Vulnerability to Phosphorus Loss
<11	Low
11-21	Medium
22-43	High
>43	Very High

Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

Site Vulnerability to Phosphorus Loss	Application Basis
Low	Nitrogen Needs
Medium	Nitrogen Needs
High	Phosphorus Need Up to Crop Removal
Very High	Phosphorus Crop Removal or No
Very mgn	Application

	Application			
Phosphorus Index Value:				
Section 10 - NMP Guidance				
Land Application Equipment Calibration				
Describe the type of equipment used to land apply v	vastes and the calibration procedures:			
Licenced manage sprea	der, Calibrations are done by Company			
Implementation, Operation, Maintenance and Rec	ordkeeping (Conjuny			
The permittee is required to develop protocols for in livestock waste control facilities, and recordkeeping	nplementation of the NMP, proper operation and maintenance of the			
Have protocols been developed for the operation?	☐ Yes ☐ No			
The documents below are maintained:				
Implementation of the NMP:	Yes □ No			
Facility operation and maintenance:	☑ Yes □ No			
7 1	☐ Yes ☐ No			
Sample collection and analysis	■ Yes □ No			
Manure transfer	☐ Yes ☑ No			
If your answer to any of the above question is no, p	•			
No Manure transfer				
Provide date and location of most recent documenta	ation:			
Date: Jan 23, 2024 Location: Office	=			
Location: Office	_			

NOI-NMP Certification

The NOI Form certification must be completed by the applicant (owner/operator) responsible for the authorization as identified in Section C. Certification of this NOI is certification that the applicant will comply with the applicable terms of the CAFO General Permit.

Permittee Information: This form must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, 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. [75-5-633, MCA].

Certification of this form indicates conformance with the CAFO General Permit.

	(T)		D
Name	(I ype	or	Print)

Joseph E Hofer

Title (Type or Print)

r Print) Phone Number

406562 3429 EXTAD7

Signature & A

Date Signed

DEQ will not process this form until all the requested information is supplied, and the appropriate fees are paid.

Return this NOI-NMP-CAFO Form and the applicable fee payment to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-5546



24. Complete the Nutrient Budget Worksheet, below, for the crop grown on each field for each year to which manure or process wastewater is, or may be, applied. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

Nutrient Budget Worksheet

Field	d iden	tification: Year:	Стор:					
Exp	ected	Crop Yield:						
Phos	Phosphorus index results or Phosphorus application from soil test:							
		f Land Application:						
When will application occur:								
Nutrient Budget			Nitrogen-based Application	Phosphorus- based Application	Source of information			
1		Crop Nutrient Needs, lbs/acre						
2	(-)	Credits from previous legume crops, or soil test lbs/acre						
3	(-)	Residuals from past manure production lbs/acre-only if no new soil test						
4	(-)	Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre						
5	(-)	Nutrients supplied in irrigation water, lbs/acre						
6		= Additional Nutrients Needed, lbs/acre						
7		Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1000 gal (from manure test)						
8	(×)	Nutrient Availability factor, for Phosphorus based application use 1.0						
9		Available Nutrients in Manure, lbs/ton or lbs/1000 gal						
10		Additional Nutrients needed, lbs/acre (calculated above)						
11	(÷)	Available Nutrients in Manure, lbs/ton or lbs/1000 gal (calculated above)						
12		= Manure Application Rate, tons/acre or 1000 gal/acre						

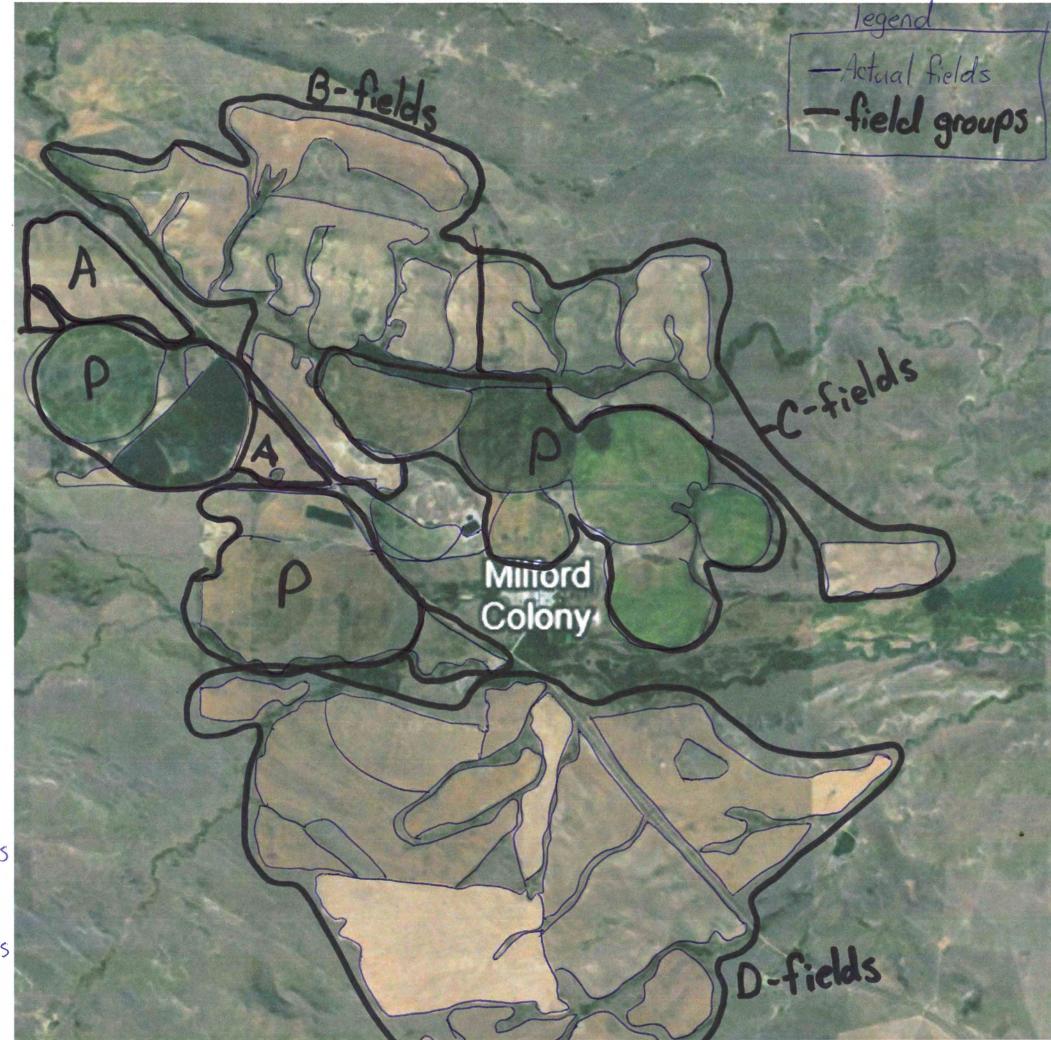
End of Linear Approach. Continue to Section 9

Page 14 of 19

8.2 Narrative Approach

Expresses a narrative rate of application that results in the amount, in tons or gallons, of manure, litter, and process wastewater to be land applied. CAFOs selecting the narrative rate approach to address rates of application must include in the NMP submitted to the Department the following information for each crop, field, and year covered by the NMP:

- 1. The maximum amounts of nitrogen and phosphorus that will be derived from all sources of nutrients (pounds/acre for each crop and field).
- 2. The outcome of the field-specific assessment of the potential for nitrogen and phosphorus transport from each field. The Department does not have an N transport risk assessment, therefore the NMP must document any basis for assuming that nitrogen will be fully used by crops. The CAFO must specify any conservation practices used in calculating the risk rating.
- 3. The crops to be planted in each field or any other uses of a field such as pasture or fallow fields, including alternative crops if applicable. Any alternative crops included in the NMP must be listed by field, in addition to the crops identified in the planned crop rotation for that field.
- 4. The realistic annual yield goal for each crop or use identified for each field for each year, including any alternative crops identified.
- 5. The nitrogen and phosphorus recommendations from Department acceptable sources for each crop or use identified for each field, including any alternative crops identified.
- 6. The methodology (including formulas, sources of data, protocols for making determination, etc.) and actual data that will be used to account for: (1) the results of soil tests, (2) credits for all nitrogen in the field that will be plant-available, (3) the amount of nitrogen and phosphorus in the manure, litter, and process wastewater to be applied, (4) consideration of multi-year phosphorus application (for any field where nutrients are applied at a rate based on the crop phosphorus requirement, the methodology must account for single-year nutrient applications that supply more than the crop's annual phosphorus requirement), (5) all other additions of plant available nitrogen and phosphorus to the field (i.e., from sources other than manure, litter, or process wastewater or credits for residual nitrogen), (6) timing and method of land application, and (7) volatilization of nitrogen and mineralization of organic nitrogen.
- 7. Any other factors necessary to determine the amounts of nitrogen and phosphorus to be applied in accordance with the Narrative Rate Approach.
- 8. NMPs using the Narrative Rate Approach must also include the following projections, which will not be used by the permitting authority in establishing site-specific permit terms:
 - Planned crop rotations for each field for the period of permit coverage.
 - Projected amount of manure, litter, or process wastewater to be applied.
 - Projected credits for all nitrogen in the field that will be plant available.
 - Consideration of multi-year phosphorus application.
 - Accounting for other additions of plant available nitrogen and phosphorus to the field.
 - The predicted form, source, and method of application of manure, litter, and process wastewater for each crop.



A-fields

B-fields 941.1ac

1 Polde

A-fields

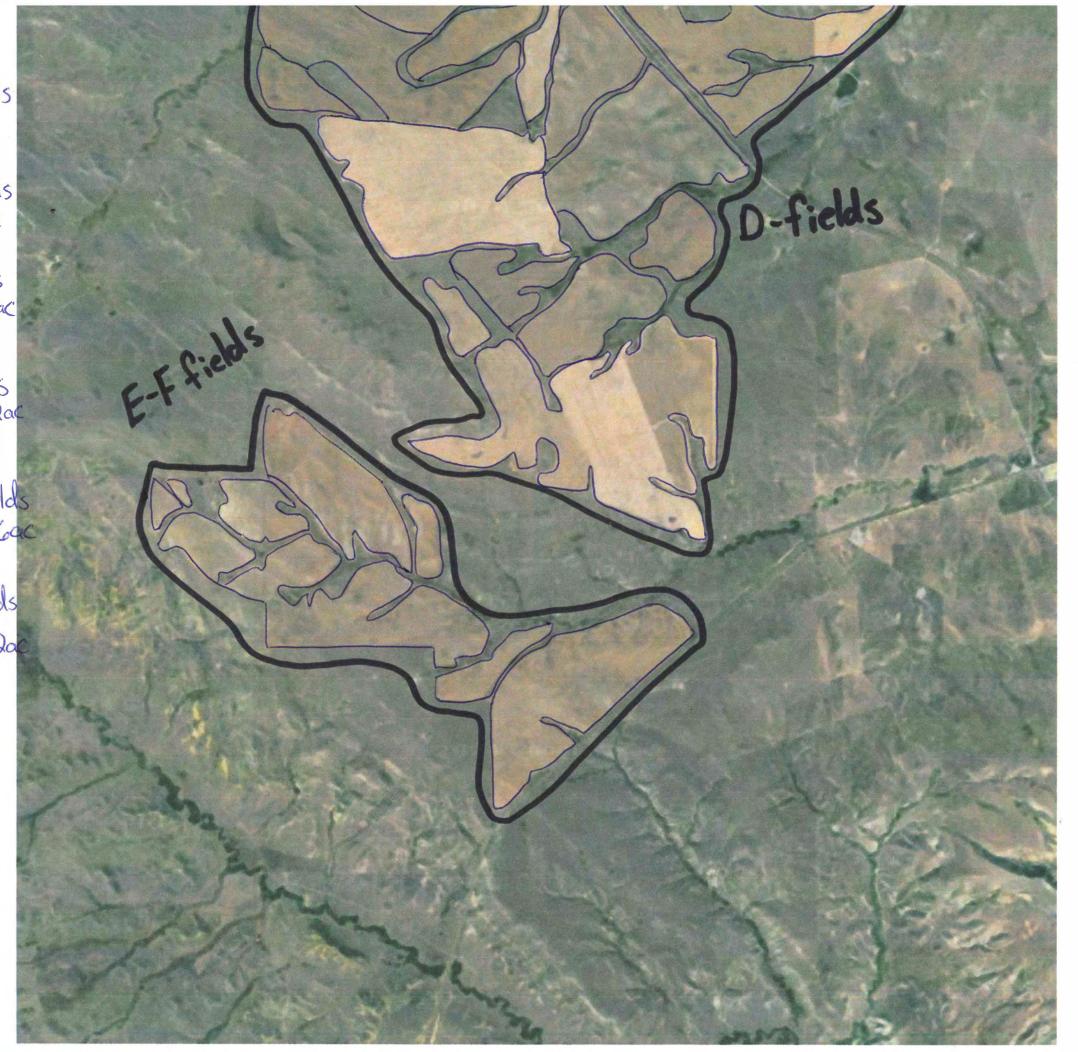
B-fields 941.1ac

Cfields 374. Gac

D fields 2208, 200

[-f]fields 749,760c

P-fields





Fields Available for Land Application

Field ID	Total Acres
A fields	230.1
B fields	941.1
C fields	374.6
D fields	2208.2
E-F fields	749.76
P fields	1088.62

Outcome of the Field-Specific Assessment of the Potential for N and P Transport from Each Field and Maximum Amount of Nitrogen and Phosphorus Derived from All Sources

Field ID	Year	Crop	Olson P results (ppm)	Recommended Rate Basis	Max N Derived from all sources	Max P ₂ O ₅ Derived from all sources	
						(lbs/acre)	
Α	2024	Winter Wheat	67	Phosphorus Needs of Crop	130	31	
	2025	Barley	67	Phosphorus Needs of Crop	96	21.6	
	2026	Winter Wheat					
	2027	Barley					
	2028	Winter Wheat					
В	2024	Winter Wheat	51.5	Phosphorus Needs of Crop	130	31	
	2025	Barley	51.5	Phosphorus Needs of Crop	96	21.6	
	2026	Winter Wheat					
	2027	Barley					
	2028	Winter Wheat					
С	2024	Winter Wheat	73	Phosphorus Needs of Crop	130	31	
	2025	Barley	73	Phosphorus Needs of Crop	96	21.6	
	2026	Winter Wheat					
	2027	Barley					
	2028	Winter Wheat					
D	2024	Winter Wheat	30.5	Phosphorus Needs of Crop	130	31	
	2025	Barley	30.5	Phosphorus Needs of Crop	96	21.6	
	2026	Winter Wheat					
	2027	Barley					
	2028	Winter Wheat					
E-F	2024	Winter Wheat	78.5	Phosphorus Needs of Crop	130	31	
	2025	Barley	78.5	Phosphorus Needs of Crop	96	21.6	
	2026	Winter Wheat		·			
	2027	Barley					
	2028	Winter Wheat					

Field ID	Year	Crop	Olsen P Soil Test Results (ppm)	Recommended Rate Basis	Max N Derived from all sources	all sources	
			(66)		(lbs/	acre)	
Р	2024	winter Wheat	59.5	Phosphorus Needs of Crop	234	55.8	
	2025	Barley	59.5	Phosphorus Needs of Crop	224	50.4	
	2026	winter Wheat					
	2027	Barley					
	2028	winter Wheat					
		1					
		1					
		†					
		-					

Alternative Crops

e: .l.d	Potential Alternative	Yield Goal	N rec.	P ₂ O ₅ rec.
Field	Crop(s)	(unit/acres)	(lbs/	
	alfalfa	3.5 ton	168	38.5
	Barley	55bushels	47.85	19.8
	Wheat	60 bushels	75	37.2
	chick pea	45bushels	98.1	30.15
	lentils	35 bushels	76.3	23.45
	canola	50 bushels	97	58.5
pivots	canola	75bushels	145.5	87.75
pirots	wheat	120bushels	150	74.4
	Barley	135bushels	117.45	48.6
	alfalfa	4 ton	192	44

Methodology

Rates of application that are expressed using the narrative rate approach must include the *methodology* for calculating the amount of manure to be land applied.

In the text box below, provide the methodology that will be used to account for:

- Soil test results
- Credits for plant available nitrogen in the field
- Amount of nitrogen and phosphorus in the manure, litter, and process wastewater to be applied
- Consideration of multi-year phosphorus application
- Accounting for all other additions of plant available nitrogen and phosphorus to the field
- Form and source of manure, litter, and process wastewater
- Timing and method of land application
- Volatilization of nitrogen and mineralization of organic nitrogen

Attach additional sheets as necessary.

chicken barn Has 660 ton dry manure each year, Which is spread at a ton per acre, which should cover 660 acres.

Hog Barn has 300 tons of dry manure, Which is spread at 1 ton to the acre, Which comes to 300 acres

Hogbarn has 1500000 gallons of liquid manure, which is aplied at 1500 gallons to the acre, which comes out to 1000 acres

The Hog liquid is applied through pivot, during growing season when crops need nitrigen, and phosphorus, acording to soil samples.

The dry manure, hog, and chicken, is applied with spreader trucks to get accurate, coverage, and is applied in a rotation manner over 4000 acres on dry land. Using GPS.

Method: Line going to pivot line, some fresh water going with it, some manure mixed in with it. Checked valve, injection pivot.

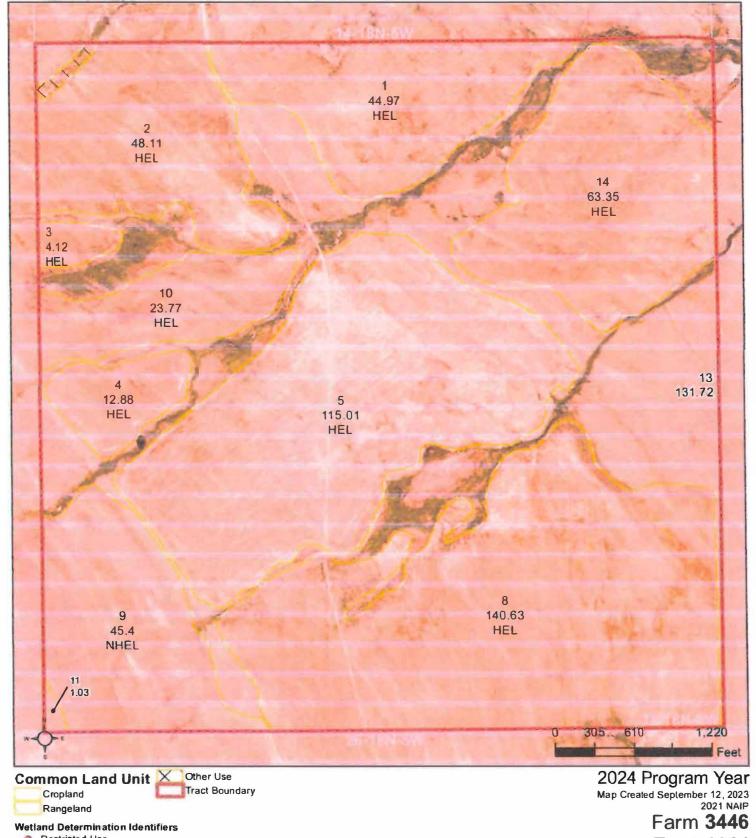
Chicken/Hog - 1 ton per acre: manure smapling to see how much N is available. Whatever is still needed after manure sampling, commercial fertilizer applied.

Timing: Usually in fall. that's when all the other work is done and the fields are empty. In springtime, apply commercial fertilizer (whatever is left).

Multi-year P approach depending on phosphorus levels of soil sample.

Pivot, liquid. Everything else, spreader trucks.





Restricted Use

Limited Restrictions

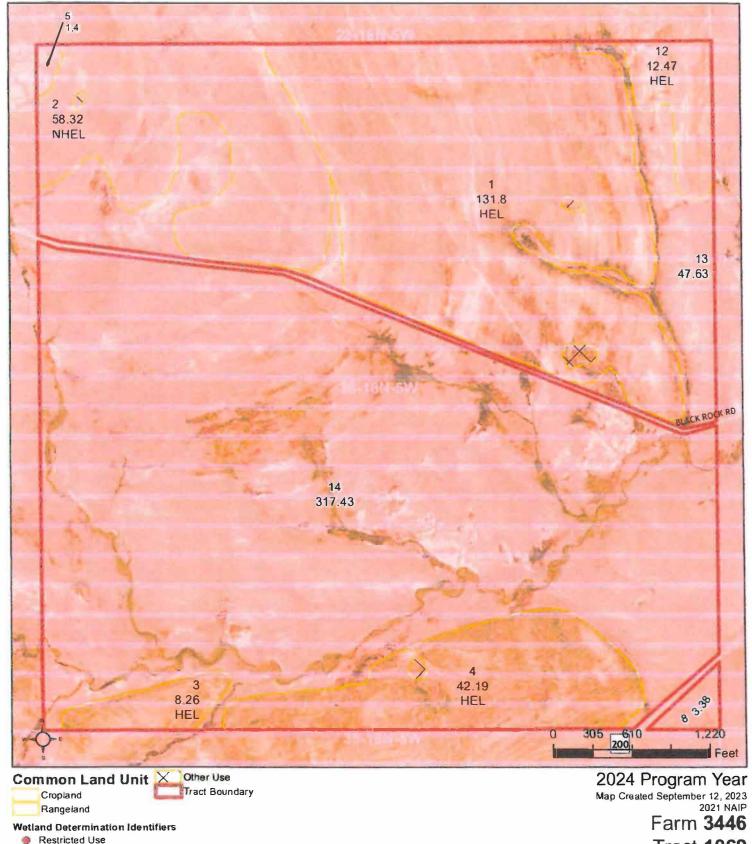
Exempt from Conservation Compliance Provisions

Tract Cropland Total: 498.24 acres

Tract **1064**

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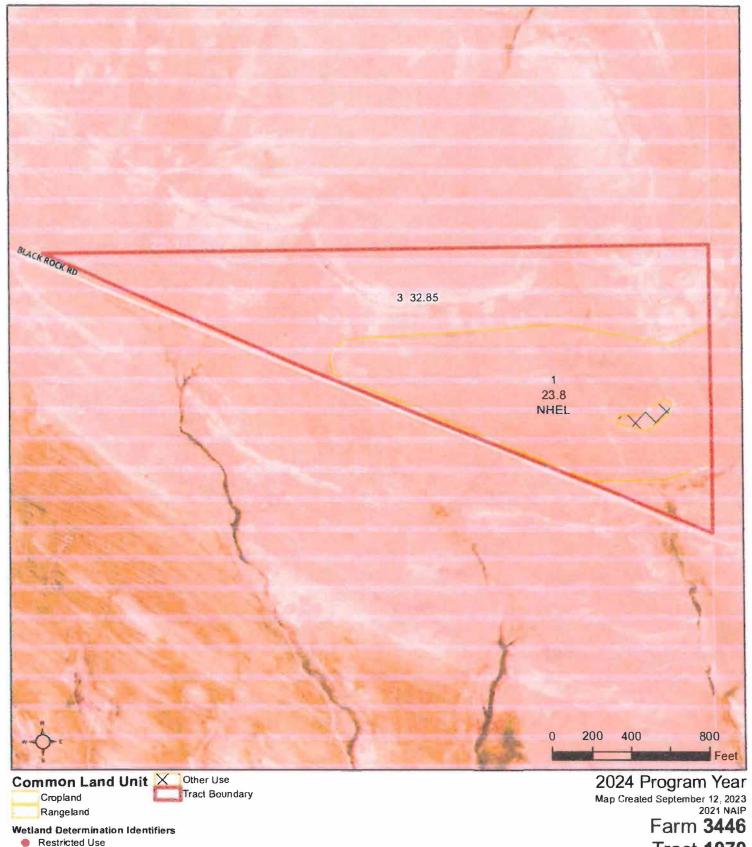
Limited Restrictions

Exempt from Conservation Compliance Provisions

Tract Cropland Total: 253.04 acres

Tract 1069





Limited Restrictions

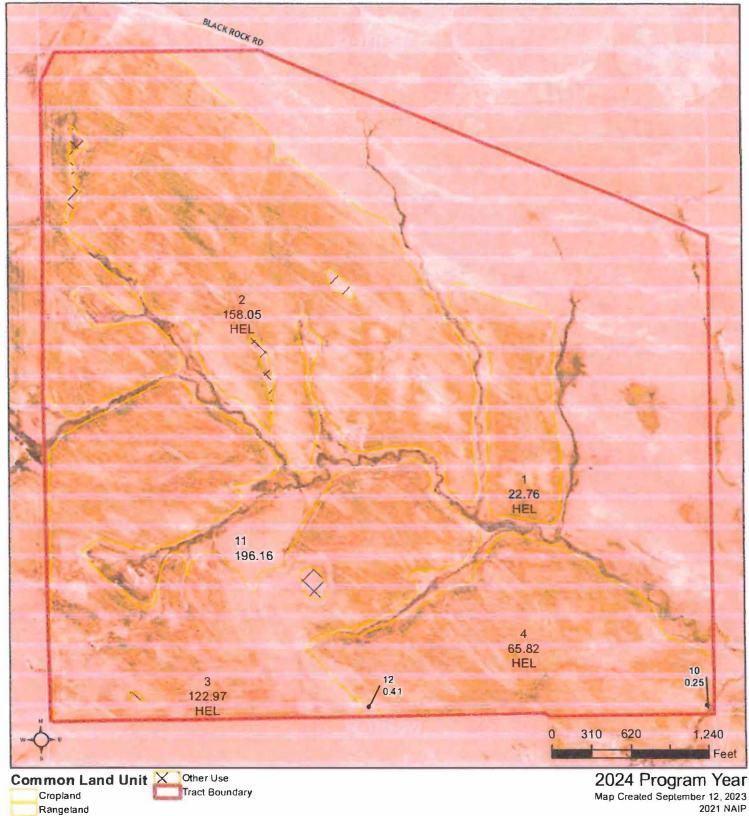
Exempt from Conservation Compliance Provisions

Tract Cropland Total: 23.80 acres

Tract 1070

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Wetland Determination Identifiers

Restricted Use

V Limited Restrictions

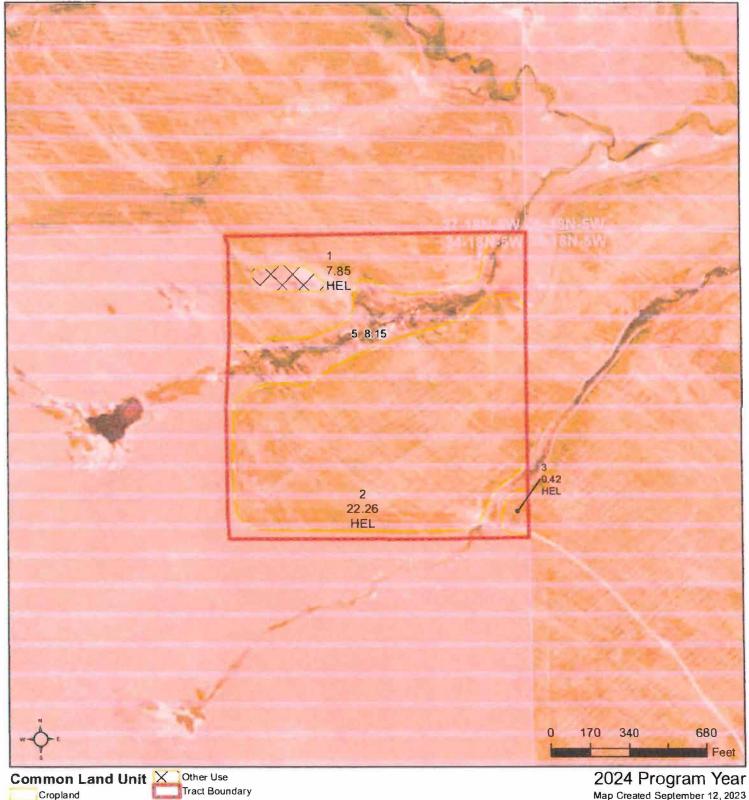
Exempt from Conservation Compliance Provisions

Farm 3446 Tract 1071

Tract Cropland Total: 369.60 acres

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Rangeland Wetland Determination Identifiers

Restricted Use

Limited Restrictions

Exempt from Conservation Compliance Provisions

Map Created September 12, 2023

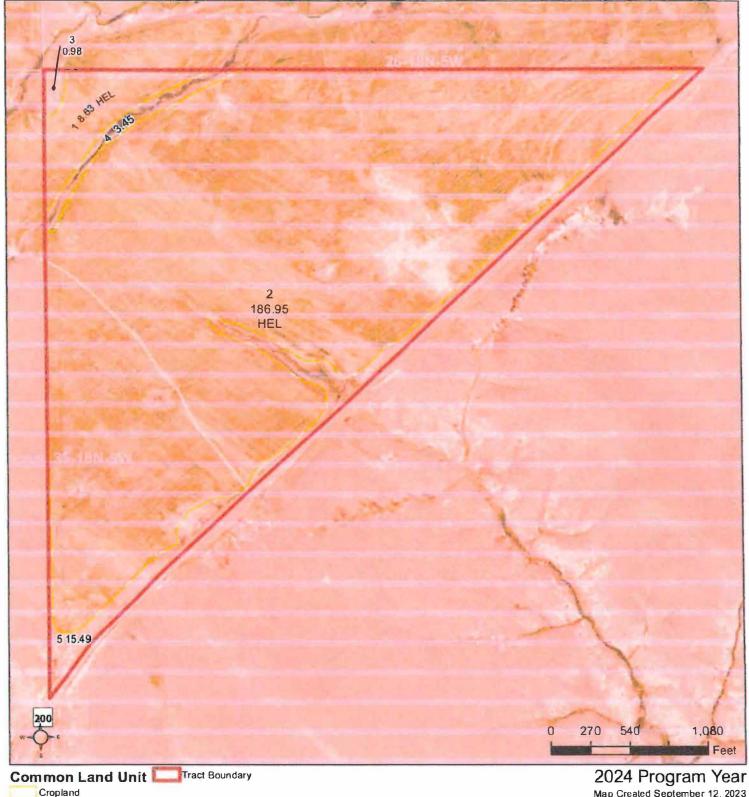
Farm 3446 Tract 1080

2021 NAIP

Tract Cropland Total: 30.53 acres

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Wetland Determination Identifiers

Restricted Use

Rangeland

Limited Restrictions

Exempt from Conservation Compliance Provisions

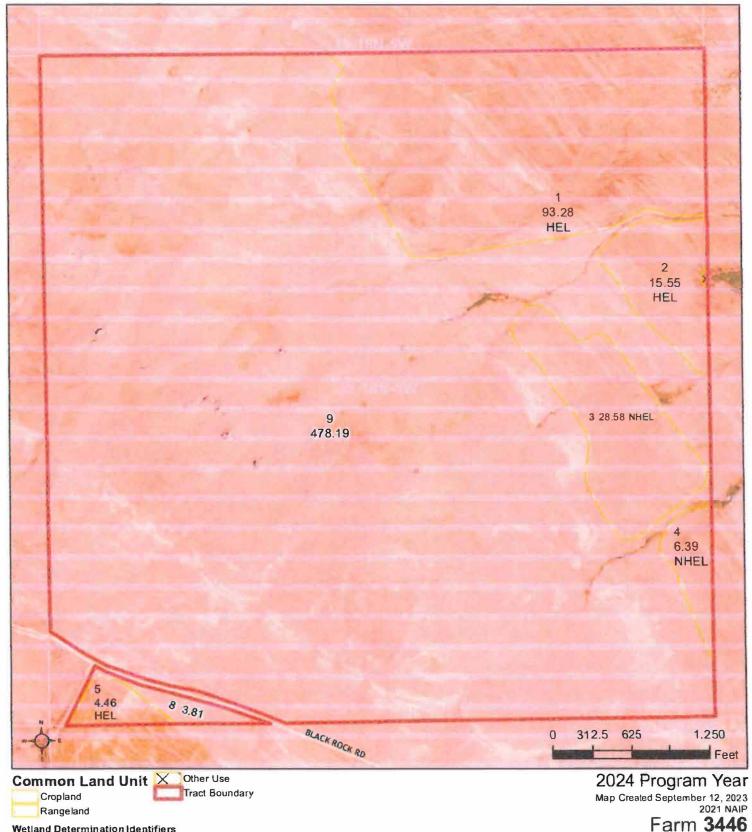
Map Created September 12, 2023 2021 NAIP

Farm 3446 Tract 1082

Tract Cropland Total: 195.58 acres

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Wetland Determination Identifiers

Restricted Use

Limited Restrictions

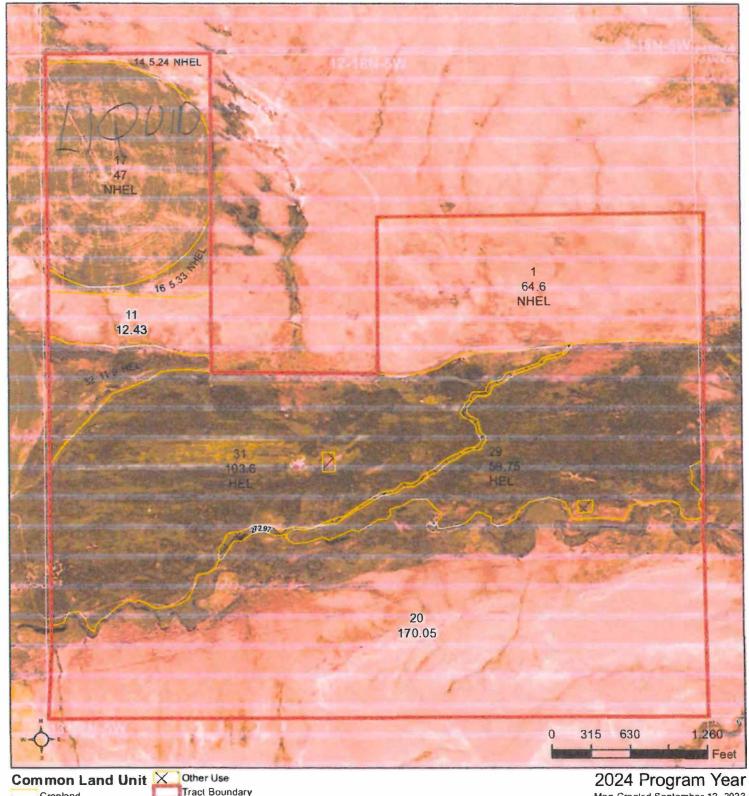
Exempt from Conservation Compliance Provisions

Tract Cropland Total: 148.26 acres

Tract 12084

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Cropland Rangeland Map Crealed September 12, 2023 2021 NAIP

Farm 3798 Tract 1050

Wetland Determination Identifiers

Restricted Use

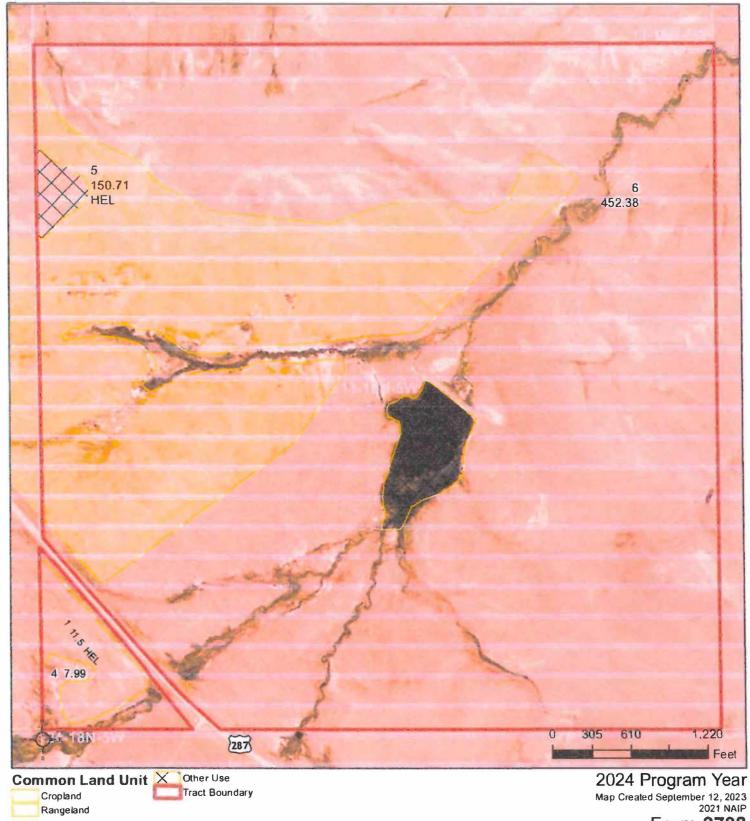
V Limited Restrictions

Exempt from Conservation Compliance Provisions

Tract Cropland Total: 297.42 acres

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Wetland Determination Identifiers

Restricted Use

V Limited Restrictions

Exempt from Conservation Compliance Provisions

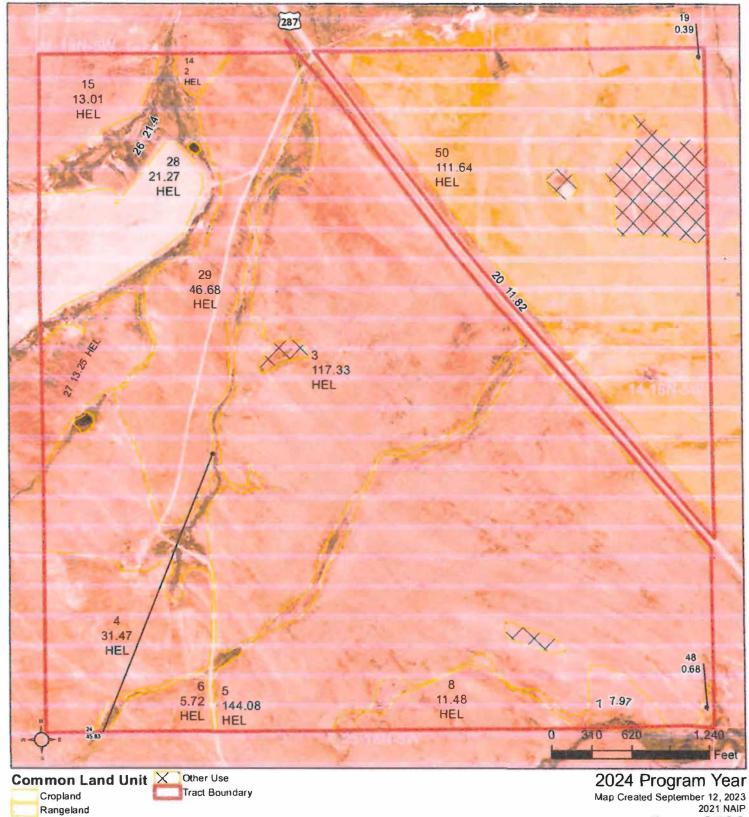
Farm 3798

Tract 1051

Tract Cropland Total: 162.21 acres

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Wetland Determination Identifiers

Restricted Use

Limited Restrictions
 Exempt from Conservations

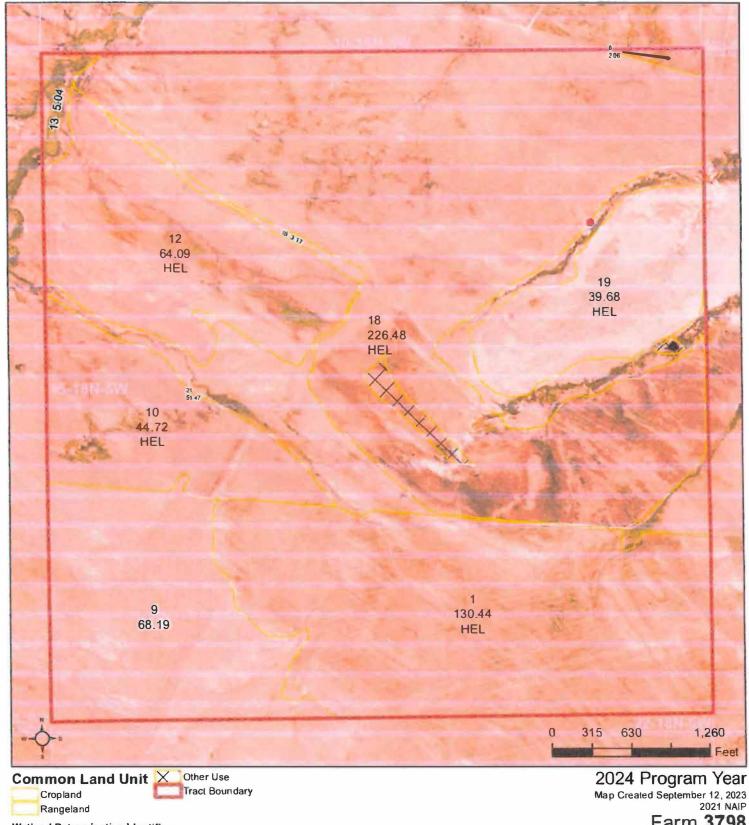
Exempt from Conservation Compliance Provisions

Farm **3798** Tract **1052**

Tract Cropland Total: 517.93 acres

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Wetland Determination Identifiers

Restricted Use

V Limited Restrictions

Exempt from Conservation Compliance Provisions

Tract Cropland Total: 505.41 acres

Farm 3798

Tract 1053

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Wetland Determination Identifiers

Restricted Use

Limited Restrictions 7

Exempt from Conservation Compliance Provisions

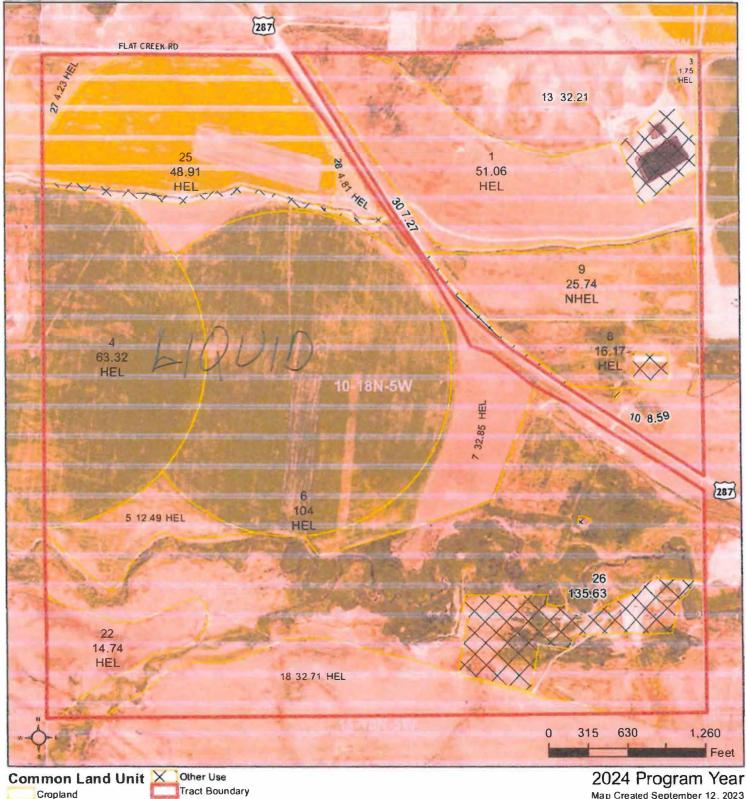
Farm 3798

Tract 1048

Tract Cropland Total: 370.92 acres

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Wetland Determination Identifiers

Restricted Use

Rangeland

Limited Restrictions

Exempt from Conservation Compliance Provisions

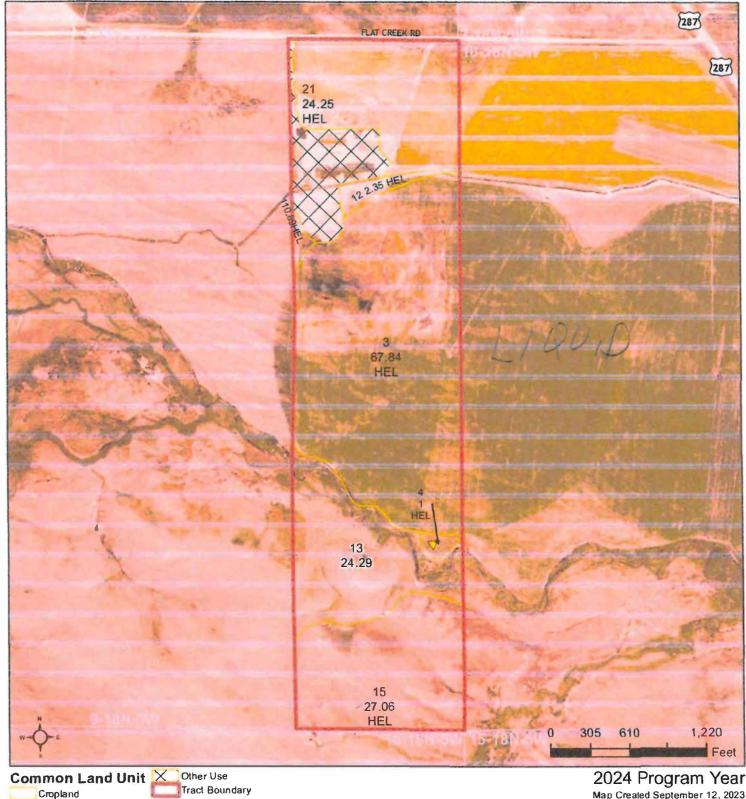
Map Created September 12, 2023 2021 NAIP

Farm 3798 Tract 1047

Tract Cropland Total: 412.78 acres

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Wetland Determination Identifiers

Restricted Use

Rangeland

Limited Restrictions

Exempt from Conservation Compliance Provisions

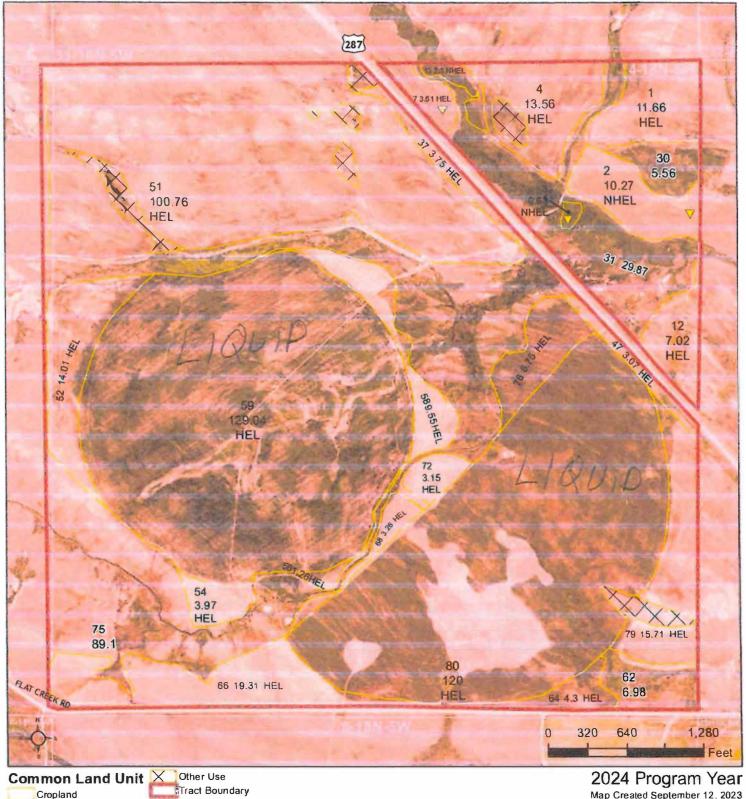
Map Created September 12, 2023 2021 NAIP

Farm 3798 Tract 1045

Tract Cropland Total: 123.39 acres

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Wetland Determination Identifiers

Restricted Use

Rangeland

Limited Restrictions

Exempt from Conservation Compliance Provisions

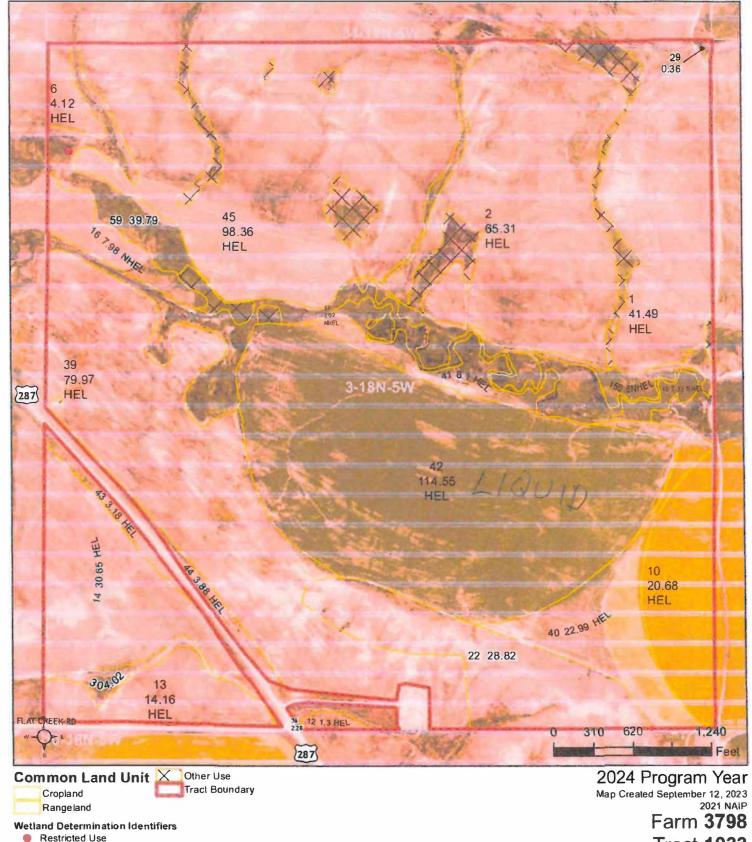
Map Created September 12, 2023

2021 NAIP Farm 3798 Tract 1034

Tract Cropland Total: 488.94 acres

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Limited Restrictions

Exempt from Conservation Compliance Provisions

Tract Cropland Total: 530.66 acres

Tract 1033

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Farm **3798**Tract **1032**

Wetland Determination Identifiers

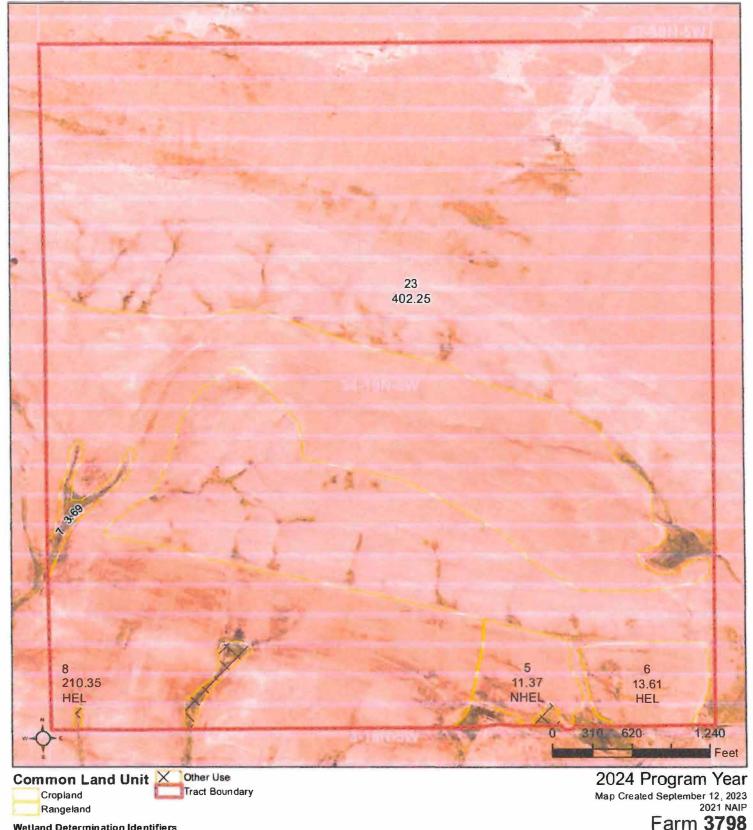
Restricted Use

Exempt from Conservation Compliance Provisions

Tract Cropland Total: 521.42 acres

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Wetland Determination Identifiers

Restricted Use

V Limited Restrictions

Exempt from Conservation Compliance Provisions

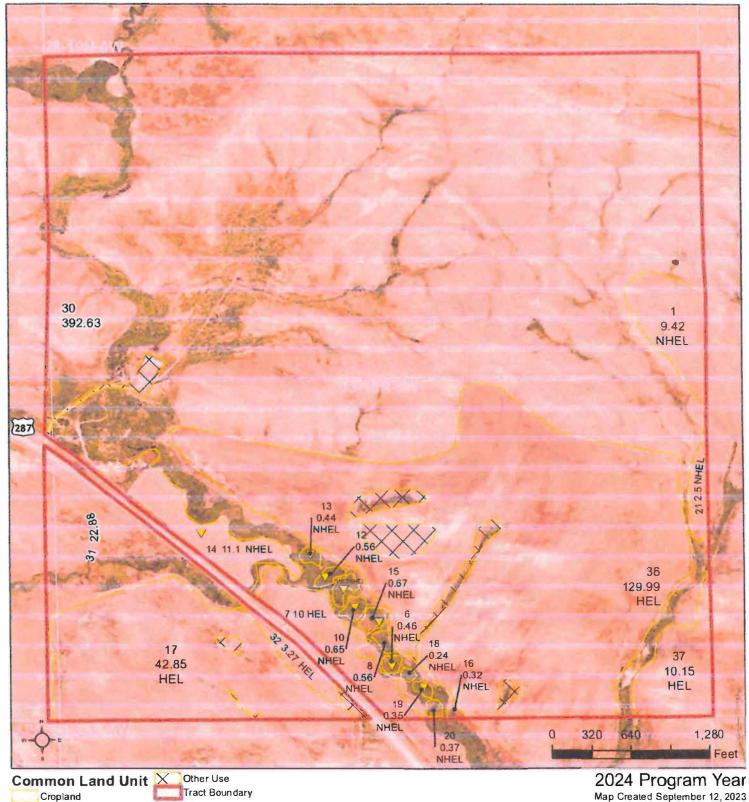
Tract Cropland Total: 235.33 acres

Farm 3798

Tract 763

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Rangeland

Wetland Determination Identifiers Restricted Use

V Limited Restrictions

Exempt from Conservation Compliance Provisions

Map Created September 12, 2023

2021 NAIP Farm 3798 Tract 762

Tract Cropland Total: 224.60 acres

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2024 to 2029

Chishet Barn

Chishet Barn

660 Ton of Manure Dry

at 1700 Per acer

660 ger

Hog Barra 300 Ton of Dry Manure

LIQUID Hog Barn
1500 000 Isal LIQUID mamure
1500 lgal Ren ger

RECEIVED

APR 18 2024

DEQ WATER QUALITY DIVISION

23-129-0119
COMPLETED DATE
May 11, 2023
RECEIVED DATE
May 9, 2023



PAGE 1/1 May 11, 2023

13611 B Street · Omaha, Nebraska 68144-3693 · (402) 334-7770 www.midwestlabs.com

> IDENTIFICATION RICK BANDY ED HOFER MOSAIC

AgCall Laura Nielsen 123149 463rd Ave Sisseton SD 57262.

SOIL ANALYSIS REPORT

											TA'EIDA'H				-				-	-			-	-				
MPUTED) % % H N		TURAT	EASE SA'	FERCENT 96 8	CATION EXCHANGE CAPACITY CEC	BUFFER.	SON. pH	М	SOOIL	IAV:	Calciu		MAGNES Mg	K K		SEV BONA E	OLS	WARS.	HCISPH P (ST PIONE)	CVA	P ₁	ER				AMPLE IFICAT	IDENT	LAB
0.0	0.0	79	15.8	5.2	23.8		7.5	PATE	DE CO		3 7 71	_		84 VH	_	2 M	-	PATE VH			15	RATE			L	TROL	CONT	*414* 84042
0.0	1.6	77	16.4	6.0	24.6		7.0			н	3817	VН	483	78 ун	5			Н	41	L	14	M	2.6	2.)	TED	TREA	84043
DLUBLE SALTS	LINCE:		80ROA B	PPER (U		IRON Fe	GANESI:		ZINC Zn		ULFUP S	SI			BSOK. 2	SUB			(FIA)	_	IITRATIE:	2			FACE	SURF/		LAB NUMBER
hos RITE		TPA	SOFU. DI	TATE		ntito nu _i q	n RATE		ETPA m RATE	13	ICAF pm RATE	200	Total Ibs/A	depth		122	apa		depti		lbs A	ppn	1	depth m)	T	lbu/A	pem	*414*
													36 56											0- 6 0-6	36 56		31	84042 84043

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.

The regiments and forther are the first exclusive, and confidential seems are already and the confidence of the party and the confidence of the party and th

Manure Analysis

Submitted By
GREYN FERTILIZER SUPPLY INC

PO Box 1020

CHOTEAU, MT 59422-1020

Location 9605 HWY 287

Submitted For

Date Sampled 10/29/2018

Date Received 31-Oct-2018

Date Reported

Laboratory Sample # BJ18904

Information Sheet No.

Account Number EW59422301

Total N, (TKN)

Phosphorus, P.O.

Potassium, KiO

Sulfur, S

Dry Matter

Moisture

Ammonium, NH-N

Organic Nitrogen, %N

N Managunent

Sample ID 2018 LIQUID

06-Nov-2018

Livestock Type Other

M1031-23

Rei Analysis (see Re

1	LIQUID Liquidad file of the file of the control of								
Hadada as		In fot Year		In 2nd	In 3rd				
	-	Hamporated*	Broadcast**	Year	Year				
5.6	22- 22	2.11- 2.2	1.7 - 2.0	0.6	0.3				
4.83	19- 19	1.82- 1.9	1.4 - 1.7						
0.7	03- 03	0.3 - 0.3	0.2 - 0.3	Ī					
0.7	06-06	QS- 0.5	0.6 - 0.6	Residual a	fter uptake				
7.1	64-64	64- 64	6.4 - 6.4	Residual a	fler uptake				
0.2	01 - 02	O.fl- 0.2	0.1 - 0.2						

			Handling 1	ype Liqu	id					
DRY										
Nutrients as		in is	Year	In 2nd	In 3rd					
		Incorporated*	Broadcast*	Year	Year					
TKN	1.3	0.5 - 0.5	0.4 - 0.5	0.1	0.1					
NH+N	1.16	0.4 - 0.5	0.3 - 0.4							
Org N	0.2	0.1 - 0.1	0.0 - 0.1							
P ₂ O ₅	0.2	0.1 - 0.1	0.1 - 0.1	Residual a	fter uptake					
K ₀ O	1.7	1.5 - 1.5	1.5 - 1.5	Residual a	fer uptake					
S	0.0	0.0 - 0.0	0.0 - 0.0							

0.07 %

0.06 %

0.01 %

0.01 %

0.06 %

< 0.01 %

0.40 %

99.00 %

The Total N (TKN) values are the considerable and application method.

Available Nutrient Credit ranges on show for sall and offende condition grantfillering Mid-est states.

DISCLAIMER: Data and information in this case it as included introduction of this report must be in its entirety, Levels fished are guidelines only. Data was reported based on standard laboratory procedure.

Page 1 of 2

^{*}Surface applied liquid or solid manuse harmonic and a district solid property of the so

^{**}Liquid or solid manure left on the ===1c= 4 or === 4 or === dept sellbuttimupsellion/Mind additightemperature will result in greater loss of available nitrogen.

[#] Liquid manure applied as irrigation will innermore applied as irrigation will innermore applied as irrigation will be subtracted off the Liquid Broadcast TKN Range.

Manure Analysis

Bullmitted By

GREYN FERTILIZER SUPPLY INC 154 US HWY 221 PO Box 1020

CHOTEAU, MT 59422-1020

Account Number

EW59422301

Submitted For

N' Management

MILFORD COLONY

5ate Sampled 3/7/2024

07-Mar-2024

08-Mar-2024

CU89667

Information Start No.

MD0307-3

Location 9605 H\VY 2	87	Samo	nie IO DRY I	MANURE		Livesto	ck Type
Analysis	Results		LIQUI	D Applica	ods		
Dry Matler	44.46 %	Nutrients		In 1st Year		n 2nd	In 3rd
Moisture	55.54 %	lbs. 1000 gal	Incorp Injected	prated* 1 - 4 Hours	Broadcast**	Year	Year
Total N, (TKN)	1.54 %	128.2	50.3 - 51.3	48.7 - 50.8	38.5 - 46.2	12.8	6.4
Ammonium, NHN	0.45 %	37.32	14.6 - 14.9	14.2 - 14.8	11.2 - 13.4		
Organic Nitrogen, 4N	1.09 %	90.9	35.6 - 36.4	34.5 - 36.0	27.3 - 32.7		
Phosphorus, (2:0s	2.16 %	180.1	162.1 - 162.1	162.1 - 162.1	162.1 - 162.1	Residual a	fler uptake
Potassium, K ₂ O	1.31 %	109.5	98.5 - 98.5	98.5 - 98.5	98.5 - 98.5	Residual a	fter uptake
Sulfur, S	0.23 %	19.1	10.5 - 19.1	10.5 - 19.1	10.5 - 19.1	<0.1	

		DRY	policutio	Metho		
Nutrients as Ibs/ton			In 2nd	in 3rd		
		Incorp <1 Hour	orated* 1 - 4 Hours	Broadcas t**	Year	Year
TKN	30.8	12.1 - 12.3	11.7 - 12.2	86-10.5	3.1	1.5
NH4-N	8.96	3.5 - 3.6	3,4 - 3.5	2.5 - 3.0		
Org N	21.8	8.6 - 8.7	8.3 - 8.6	6.1 - 7.4		
P ₂ O ₅	43.2	38.9 - 38.9	38.9 - 38.9	38.9 - 38.9	Residual a	iller uptake
K ₂ ()	26.3	23.7 - 23.7	23.7 - 23.7	23.7 - 23.7	Residual a	ifter uptake
s I	4.6	2.5 - 4.6	2.5 - 4.6	2.5 - 4.6	<0.1	

Available Nutrient Credit ranges are shown for soil and climate conditions prevalent in the Upper Midwest states.

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Page 1 of 1

^{*}Surface applied liquid or solid manure incorporated within 1-4 hours after application.

[&]quot;Liquid or solid manure left on the surface 4 or more days without incorporation. Wind and high temperature will result in greater loss of available nitrogen.

The Total N (TKN) values are the sum of Ammonium and Organic N. Avaimbility estimates are corrected for ammonia volatilization loss due to each application method.

[#] Liquid manure applied as irrigation will lose more altrogen from volatilization. An additional 15% of the Liquid TKN value should be subtracted off the Liquid Brosticast TKN Range.

Submitted By

GREYN FERTILIZER SUPPLY INC 154 US HWY 221 PO Box 1020 CHOTE:AU, MT 59422-1020

EW59422301

Submitted For

est Package

MILFORD COLONY

Date Sampled 6/1/2024

Date Received 07-Mar-2024

Onto Reported

08-Mar-2024

Landestory Sample CU89659

Information Bheet No. ML0307-3

Location MILFORD CCLONY

Pasic Sample D LIQUID MANURE

Livestock Type

Handling Type

Liquid

Analysis	Results
Dry Matter	0.55 %
Moisture	99.45 %
Total N, (TKN)	0.17 %
Phosphorus, P2Os	0.02 %
Potassium, K ₂ O	0.11 %
Sulfur, S	< 0.01 %

	Liqui	D Applica	tion M eth	ods.		
Nutrients as lbs:1000 gal		in 2nd	In 3rd			
	Incorp	proted*	Broadcast**	Year	Vear	
13.8	12,2 - 13.8	11.8 - 13.7	9.3 - 12.4	0.0	0.0	
1.6	1.4 - 1,5	1.4 - 1.6	1.4 - 1.6	Residual after uptake		
9.2	8.3 - 9.2	8.3 - 9.2	8.3 - 9.2	Residuəl a	fter L plake	
0.4	0.2 - 0.4	0.2 - 0.4	0.2 - 0.4	<0.1		

Nutrients as (bs/ton				In 2nd	In 3rd	
		Incorp	orated*	Broadcast**	Year	Year
TKN	3.3	2.9 - 3.3	2.8 - 3.3	2.1 - 2.8	0.0	0.0
P ₂ () _s	0.4	0.3 - 0.4	0.3 - 0.4	0.3 - 0.4	Residual after uptake	
K ₂ ()	2.2	2.0 - 2.2	2.0 - 2.2	2.0 - 2.2	Residual a	ifter uptake
s	0.1	0.0 - 0.1	0.0 - 0.1	0.0 - 0.1	<0.1	

The Total if (TKN) values are the sum of Ammonium and Organic N. Avaidability estimates are corrected for ammonia volatilization loss due to each application method. Available Nutrien: Credit ranges, are shown for soil and climate conditions prevalent in the Upper Midwest states.

Liquid manure applied as irrigation will lose more nitrogen from volatilization. An additional 15% of the Liquid TKN value should be subtracted off the Liquid Broadcast TKN Range.

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