DEQ - Copy ✓

DEQ
Montana Department of Environmental Quality

WATER PROTECTION BUREAU

Agency Use	
Permit No.:	MTG010223
Date Rec'd	2-25-25
Amount Rec'd	0
Check No.	0
Rec'd By	SMF

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

This application form is comprised of the **NOI (Sections 1 – 5)** and the **NMP (Sections 6 – 10)**. Before completing the NOI-NMP 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: M T G 0 1 0 2 2 3

Select Appropriate Fee:
- ☐ New Application: $1200
- ☒ Renewal Application: $600
- ☐ Permit Modification: $600

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: Hillside Colony

Location (Physical address or Directions): 1 Sweetgrass Rd

Nearest City or Town: Sweetgrass

Zip Code, County: 59484, Toole

Facility Latitude, Longitude: 48.9761000, -112.068300

Date facility began operation: 01-Feb-1963

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

Section 2 – Representatives

2.1 Applicant (Owner/Operator)

The owner/operator assumes all liability for site discharges and compliance with the terms and conditions of the permit. The signatory/responsible official must meet certification requirements listed in the Certification Section at this end of this form.

Owner/Operator Formal Name: Joe Carleton - Dry Fork Ag

Mailing Address: 301 Main Street

City, State, Zip Code: Ledger, MT 59456

Signatory/Responsible Official: Name Joe Carleton Title Consultant

Contact Information: Phone 406-788-0653 Email dryforkjoe@gmail.com

2.2 Authorized Representative

For future reports (including NetDMR) to be signed by anyone other than the signatory/responsible official, a duly authorized individual(s) or position must be identified. If one is not designated, than all reports must be signed by the signatory until such designation is made in writing [ARM 17.30.1232(2)].

Select Appropriate Box:

☐ No authorized representative for this permit is designated at this time (continue to Section 3)

☒ I designate the following duly authorized representative for this permit (provide the information below):

Authorized Representative Information:

Authorized Representative: Name Don Wurz Title Farm Manager

Company Name: Hillside Colony

Mailing Address: PO Box 169

City, State, Zip Code: Sweetgrass, MT 59484

Contact Information: Phone 406-937-2966 Email

Section 3 – Business Description

3.1 SIC Codes and NAICS Codes

Provide at least one Standard Industrial Classification (SIC) code and one North American Industry Classification System (NAICS) code which best reflects the products or services provided by the CAFO.

SIC Code		Description
(1)	252	Chicken Eggs
(2)	259	Poultry
(3)	212	Beef
(4)		

NAICS Code		Description
(1)	11234	Chicken Eggs
(2)	112390	Poultry
(3)	112111	Beef
(4)		

SIC Code Examples:

211 Beef Cattle Feedlots
212 Beef Cattle, Except Feedlots
213 Hogs
214 Sheep and Goats
241 Dairy Farms
251 Broiler, Fryer and Roaster Chickens
252 Chicken Eggs
253 Turkeys and Turkey Eggs
254 Poultry Hatcheries
259 Poultry and Eggs, not elsewhere classified (Ducks)
272 Horses and other Equines

NAICS Code Examples:

112112 Cattle Feedlots
112111 Beef Cattle Ranching and Farming
11221 Hog and Pig Farming
11240 Sheep Farming
11212 Dairy Cattle and Milk Production
11232 Broilers and other Meat-Type Chickens
11234 Chicken Egg Production
11233 Turkey Production
11234 Poultry Hatcheries
112390 Other Poultry Production
112920 Horses and other Equine Production

3.2 Facility or Operation Description

Provide a brief description of the nature of the facility (feedlot, stockyard, sale barn, etc.)

Beef cows, Duck, chicken eggs

3.3 Existing or Pending Permits, Certification, or Approvals

☐ None

☒ MPDES CAFO

☐ PSD (Air Emissions)_____

☐ 404 Permit (Dredge and Fill)_____

☐ RCRA_____

☐ Other_____

☐ Other_____

Section 4 – Outfalls

4.1 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	48.9796940	-112.065389	Grassy Lake, Buckley Coulee
	No actual Outfall at Poultry Building		

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://deq.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

5.2 Animal Confinement

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	60	
Swine 55 lbs. or over		
Swine 55 lbs. or under		
Horses		
Sheep or Lambs		
Turkeys		
Chicken broilers –includes juveniles		
Chicken layers –includes juveniles		60,000
Ducks		3400
Other Specify:		
Other Specify:		

5.3 Rain Gage Location

Identify the nearest gage station or onsite rain gage. Provide either the Station ID of the gage or a latitude and longitude.

Station ID _____ OR

Latitude, Longitude 48.976100, -112.068300

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			
Storage Pond #1			
Storage Pond #2			
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			
Below Ground Storage Tank			
Roofed Storage Shed			
Concrete Pad	1400	tons	180
Impervious Soil Pad	2000	tons	365
Other Specify: Open Lot	4000	tons	365
Other Specify:			

5.5 Sage Grouse 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 core, general, or connectivity habitat.

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

☒ 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. See MAPS in FACTS

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.

Livestock Statistics and Manure, Litter, and Process Wastewater Generation Rates

Animal Type	Waste Storage Location	Maximum Number of Animals at Any Time	Number of Days/Year on Site	Annual manure, litter, and process wastewater production	
				Dry (tons/yr)	Liquid (gallons/yr)
1. Chicken (layers)	Pads and lot	60,000	365	2100	
2. Poultry (ducks)	Pads and lot	3400	120	170	
3. Beef	Pads and lot	60	120	160	
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					

Methods for estimating animal manure, 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.

Prior years production & Application records. Comparison to similar designed facility production.

Manure handling:

Identify manure, litter, and process wastewater handling at the CAFO. Mark all that apply:

- ☒ Stored in pens
- ☒ Stored on stacking pad
- ☒ Composting on site
- ☐ Other _____
- ☐ Direct pipe to liquid impoundment
- ☐ Stored under floor pit
- ☐ Separator

Frequency of manure removal from confinement areas:

- ☐ Bi-annually
- ☒ Annually
- ☐ As needed
- ☐ Other _____

Is the manure, litter, or process wastewater temporarily stored in any location other than the production area?

- ☒ No.
- ☐ Yes. Explain how and where _____

Is dry manure and/or litter stored on an impervious surface?

- ☐ No.
- ☒ Yes. Describe the type and characteristics of this surface concrete stacking pad

Waste control structures:

Provide the 24-hr-25-yr storm event at your facility location. Refer to the map provided in the instructions. 3.4 in/hr

Provide the annual precipitation during critical winter storage period (180 days from mid-October to mid-April) 12.0 in

Provide the area within clean water diversions. This is the area that is inside the BMPs used for clean water diversions and is used to calculate volume required to hold the 24-hr-25-yr storm event and the volume of your critical storage period. 9.0 acres

Check all the surface types within the clean water diversion area and provide the coverage in acres or ft^2. Be sure to circle the correct units.

- ☒ Dirt 7.0 acres or ft^2 (circle correct unit)
- ☐ Concrete _____ acres or ft^2 (circle correct unit)
- ☐ Paved _____ acres
- ☐ Under roof _____ acres or ft^2 (circle correct unit) – check if runoff is not part of clean water BMPs
- ☒ Gravel 20 acres or ft^2 (circle correct unit)
- ☐ Pasture _____ acres or ft^2 (circle correct unit)
- ☐ Other _____ _____ acres or ft^2 (circle one)

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 Structures Description				
Production area Waste Control Structure (For Corresponding Animal Type Identified in Table Above)	Volume (gal if liquid) (ft^3 if dry)	Number of days of storage	Winter storage depth (ft)	The 24hr-25 yr storm event depth (ft)
1. Concrete Pad	1400	180	12.0	12.0
2. Earthen Pad	2000	365	5.0	6.0
3. Open Lot	4000	365	.5	1.0
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				

6.2 Mortality Management

Check the box that describes how mortalities are disposed of at this CAFO.

- ☒ Burial
- ☒ Composted
- ☐ Incineration
- ☐ Landfill
- ☐ Contractor removal
- ☐ Other _____

Provide the location where mortalities are disposed of, if part of the production area:

Off-site pit, stacking Pad

6.3 Clean Water Diversion Practices

Check all that apply for how clean water is diverted from the production area.

- ☒ Ditches
- ☒ Earthen berms
- ☒ Culverts
- ☐ Site grading
- ☒ Gutters and spouts
- ☐ Other _____

6.4 Prohibiting Animals and Wastes from Direct Contact with State Waters

Check all that apply for how animals and wastes are prohibited from direct contact with sate waters.

- ☒ Fencing
- ☐ Wall
- ☒ Inside building
- ☐ Other _____

6.5 Chemicals and Contaminants

List all major chemicals 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 contaminant. Ensure a corresponding map has been attached, as required in Section 6, Facility Photos and Maps.

Outside of production area in a covered shed

6.6 Conservation Practices

Check all temporary, permanent, and structural BMPs which will be used to control runnoff of pollutants from the facility's **production area**. Be sure to include them on the map described above in Section 6. If BMPs are not installed, include a schedule for implementation of each of the following measures. Provide details and specifications to suplement the BMP descriptions. Attach additional sheets if necessary.

- ☒ Ditches
- ☒ Earthen berms
- ☒ Culverts and pipes
- ☒ Buffers
- ☐ Site grading
- ☒ Gutters and spouts
- ☐ Covered Pens
- ☐ Other _____

6.7 Sampling and Analysis Procedures for Manure, Litter, Process Wastewater, and Soil

Representative samples of manure, litter, and process wastewater must be analyzed a minimum of once per year for total nitrogen and total phosphorus. Results should be reported in lbs/ton for solids and lbs/1000 gal for liquids. Results will be used to determine rates for manure, litter, and process wastewater. Indicate your method for samping. Be sure to provide a description if you select "other."

- ☒ Sample collection will occur according to CAFO General Permit Section II.D.
- ☐ Other _____

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Section 7 – NMP Land Application

Identify whether manure will be land applied to land that is owned, rented, or leased by the owner or operator of the facility.

☐ No. Explain how animal waste will be managed by the operation, including protocol for transfers of manure, litter, and process wastewater. Skip to Section 10.

_____

_____

☒ Yes. Continue below.

7.1 Land Application Photos and Maps

Facilities that land apply must attach photos/maps clearly identify the following items. If an item is not applicable, check the box "None."

- Individual field boundaries for all planned land application areas
- A name, number, letter or other means of identifying each individual land application field
- The soil type(s) present and their locations within the individual land application field(s)
- The location of any downgradient surface waters
- The specific manure/waste handling or nutrient management restrictions associated with each land application field i.e. setbacks
- Buffers and setbacks around state surface waters, well heads, etc.
- Any downgradient open tile line intake structures
  ☒ None. Not included on map
- Any downgradient sinkholes
  ☒ None. Not included on map
- Any downgradient agricultural well heads
  ☒ None. Not included on map
- All conduits to surface waters
- All temporary, permanent, and structural BMPs used to control runoff of pollutants from the land application area

☒ I have attached photos and maps of the site where manure is to be applied. See maps & photos in FACTS

7.2 Protocols to Land Apply Manure, Litter, or Process Wastewater

Check all temporary, permanent, and structural BMPs which will be used to control runoff of pollutants from the CAFO's **land application area.** If not already in use, include a schedule for implementation of each of these measures. You may supplement this description by attaching details and specifications.

☒ Buffers	☒ Conservation tillage
☐ Constructed wetlands	☒ Grass Filter
☒ Infiltration field	☒ Residue Management
☒ Setbacks	☐ Terrance

☐ Other _____

7.3 Soil Phosphorus Sampling and Analysis

Representative **soil** (composite) samples from the top 6 inches layer of soil for each field where manure will be applied must be analyzed for phosphorus content at least once every three years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and 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 (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 _____

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Section 8. NMP Application Rates

The applicant has 2 ways in which to report how manure or process wastewater application rates can be reported to DEQ. Select one:

☐ **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

Expresses rates of application as pounds of nitrogen and phosphorus. CAFOs selecting the linear 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 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. Any other factors necessary to determine the maximum application rate identified in accordance with this Linear Approach. Nutrient Budgets are calculated prior to application. See FACTS for previous years budgets. Example Budgets are provided with the spreadsheet.

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Fields Available for Land Application

Field ID	Total Acres
SANDY	342.68
BERTH SWENSON	403.34
BUCKLEY	193.61
COBB KRUGER	871.31
CHURRI	303.2
VARGO S	1543.31
BAILEY W	1543.31
NORTH OF HOUSE	689.3
WEST OF HOUSE	689.3
EAST KRUGER	130.63
MITCHAL	295.49
SOUTH KENNY	158.42
	7163.9

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	Olsen P Soil Test Results (ppm)	Recommended Rate Basis	Max N Derived from all sources (lbs/acre)	Max P_2O_5 Derived from all sources (lbs/acre)
SANDY	2024-2028	WHEAT	33	Phosphorus Needs of Crop	156	37.2
BERTH SWENSO	2024-2028	WHEAT	5	Nitrogen Needs of Crop	156	42
BUCKLEY	2024-2028	WHEAT	29	Phosphorus Needs of Crop	156	37.2
COBB KRUGEF	2024-2028	WHEAT	13	Nitrogen Needs of Crop	156	37
CHURRI	2024-2028	WHEAT	9	Nitrogen Needs of Crop	156	43
VARGO S	2024-2028	WHEAT	13	Nitrogen Needs of Crop	156	37
BAILEY W	2024-2028	WHEAT	14	Nitrogen Needs of Crop	156	38
NORTH OF HOU	2024-2028	WHEAT	7	Nitrogen Needs of Crop	156	41
WEST OF HOUS	2024-2028	WHEAT	9	Nitrogen Needs of Crop	156	43
EAST KRUGER	2024-2028	WHEAT	6	Nitrogen Needs of Crop	156	49
MITCHAL	2024-2028	WHEAT	7	Nitrogen Needs of Crop	156	41
SOUTH KENNY	2024-2028	WHEAT	6	Nitrogen Needs of Crop	156	49

Alternative Crops

Field	Potential Alternative Crop(s)	Yield Goal (unit/acres)	N rec. (lbs/acre)	P_2O_5 rec. (lbs/acre)
ALL FIELD	BARLEY	60	96	22
ALL FIELD	HRW	40	104	25
ALL FIELD	HRS	40	132	25
ALL FIELD	DURUM	38	120	24
ALL FIELD	LENTILS	18	0	12
ALL FIELD	CONOLA	25	80	29
ALL FIELD	GREEN PEAS	16	0	11
ALL FIELD	CHICK PEAS	16	0	11
ALL FIELD	MALT BARLEY	65	78	23

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.

All applications of manure are either nitrogen- or phosphorus-based. Winter wheat is the default crop for all fields in this plan. Nitrogen is calculated based on 2.6 lbs N per bushel of target yield. A manure analysis for each source applied is completed annually. Soil tests are completed a minimum of once every 3 years for every field that receives manure. Phosphorus requirements are calculated above or below 16 ppm. Anything above 16 ppm (Table 21) was utilized; at or below 16 ppm (Table 18) was utilized.
Alternative crops will be fertilized and will receive manure based on values listed on the alternative crop tab by crop.
See the spreadsheet for fields for nitrogen- or phosphorous-based applications.
All phosphorus recommendations are based on Table 21 for alternative crops.
Starter fertilizer is the only source used for all fields receiving manure.
Manure is applied in the spring or fall before planting. Liquid is injected into the soil, and dry manure is spread using a manure spreader.
volatilization is control, and mineralization is enhanced by liquid injection and/or planting incorporation.

Field identification: bailey W Year: 2024 Crop: spring wheat example only					
Expected Crop Yield: 50 bushels					
Phosphorus index results or Phosphorus application from soil test: 14ppm					
Method of Land Application: speeder					
When will application occur: Spring					
Nutrient Budget			Nitrogen-based Application	Phosphorus-based Application	Source of information
1		Crop Nutrient Needs, lbs/acre	156	37	EB-161
2	(-)	Credits from previous legume crops, or soil test lbs/ac	35	0.00	
3	(-)	Residuals from past manure production lbs/acre (if no new soil test)	0	0	
4	(-)	Nutrients from commercial fertilizer and biosolids, lbs/acre	10	0	
5	(-)	Nutrients supplied in irrigation water, lbs/acre	0	0	
6		**= Additional Nutrients Needed, lbs/acre**	111.00	37.20	
7		Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1000 gal (from manure test)	66	54	
8	(x)	Nutrient Availability factor, for Phosphorus based application use 1.0	0.60	1	
9		**= Available Nutrients in Manure, lbs/ton or lbs/1000 gal**	39.60	54.00	
10		Additional Nutrients needed, lbs/acre (calculated above)	111.00	37.20	
11	(/)	Available Nutrients in Manure, lbs/ton or lbs/1000 gal (calculated above)	39.60	54.00	
12		**= Manure Application Rate, tons/acre or 1000 gal/acre**	2.803	0.689	

Comments

for this example, it is nitrogen based.
maximum application rate for nitrogen is 2.803 tons per acre poultry manure

Field identification: Buckley	Year: 2024	Crop: spring wheat	example only	
Expected Crop Yield: 50 bushels				
Phosphorus index results or Phosphorus application from soil test: 29ppm				
Method of Land Application: speeder				
When will application occur: Spring				

		Nutrient Budget	Nitrogen-based Application	Phosphorus-based Application	Source of information
1		Crop Nutrient Needs, lbs/acre	156	37	EB-161
2	(-)	Credits from previous legume crops, or soil test lbs/ac	35	0.00	
3	(-)	Residuals from past manure production lbs/acre (if no new soil test)	0	0	
4	(-)	Nutrients from commercial fertilizer and biosolids, lbs/acre	10	0	
5	(-)	Nutrients supplied in irrigation water, lbs/acre	0	0	
6		**= Additional Nutrients Needed, lbs/acre**	111.00	37.20	
7		Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1000 gal (from manure test)	66	54	
8	(x)	Nutrient Availability factor, for Phosphorus based application use 1.0	0.60	1	
9		**= Available Nutrients in Manure, lbs/ton or lbs/1000 gal**	39.60	54.00	
10		Additional Nutrients needed, lbs/acre (calculated above)	111.00	37.20	
11	(/)	Available Nutrients in Manure, lbs/ton or lbs/1000 gal (calculated above)	39.60	54.00	
12		**= Manure Application Rate, tons/acre or 1000 gal/acre**	2.803	0.689	

Comments

example field Buckley phos based equals.
this field on a phos based application could receive .689 tons per acre poultry manure

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: < 25 ppm

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 Application

Phosphorus Index Value: _____

Section 10 – NMP Guidance

Land Application Equipment Calibration

Describe the type of equipment used to land apply wastes and the calibration procedures:

spread with spreader using DEQ-9 calibration

Implementation, Operation, Maintenance and Recordkeeping

The permittee is required to develop protocols for implementation of the NMP, proper operation and maintenance of the livestock waste control facilities, and recordkeeping as described in Part 2 of the permit.

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
Recordkeeping and reporting	☒ Yes ☐ No
Sample collection and analysis	☒ Yes ☐ No
Manure transfer	☐ Yes ☒ No

If your answer to any of the above question is no, provide explanation:

NO manure transfer

Provide date and location of most recent documentation:

Date: Dec 2023

Location: Farm MGR 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.

Name (Type or Print)	
Don Z. Wurz	
Title (Type or Print)	Phone Number
Farm manager	1-406-937-2966
Signature	Date Signed
Don Z. Wurz	1-23-2024

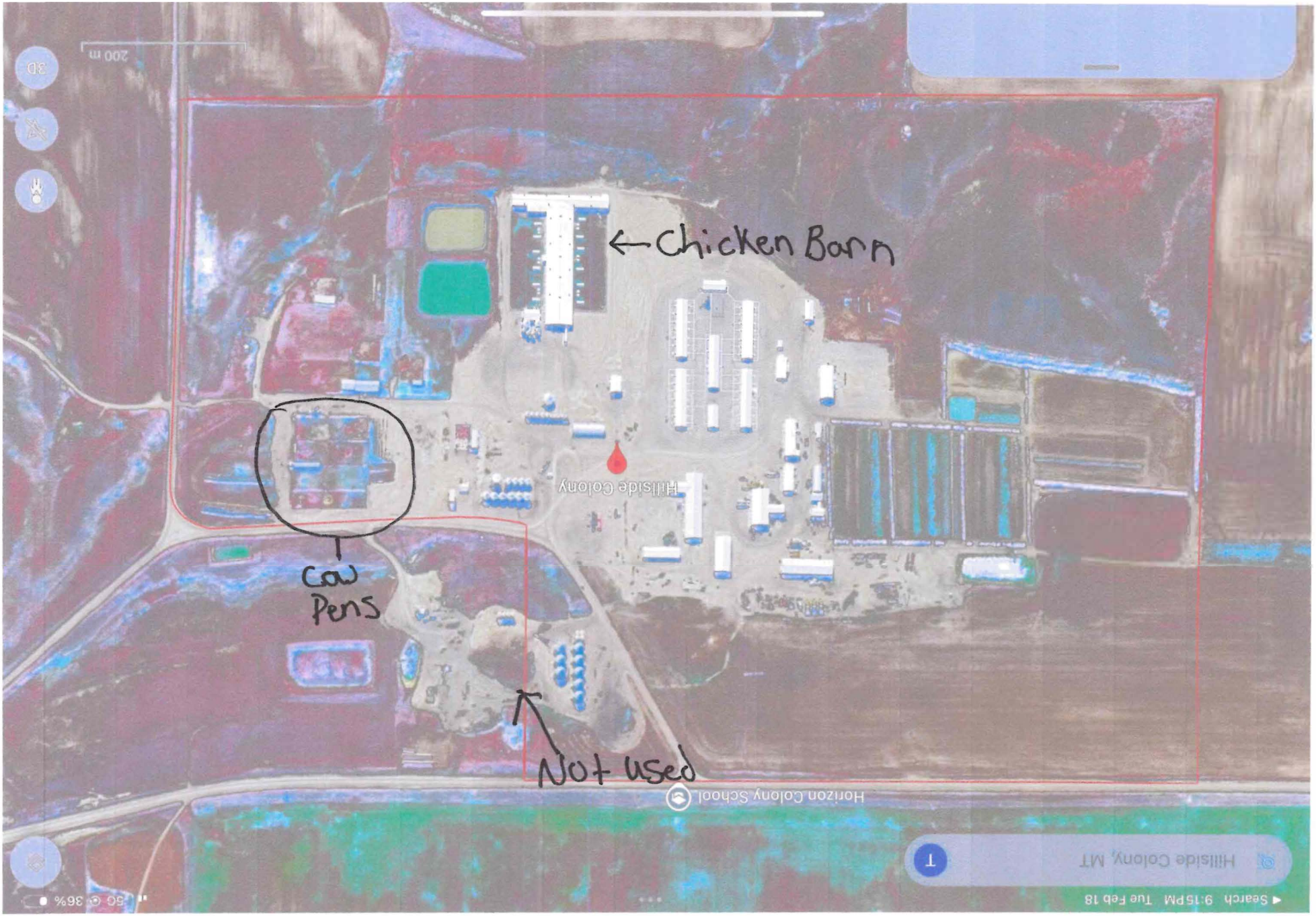
DEQ will not process this form until all the requested information is supplied, and the appropriate fees are paid.

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

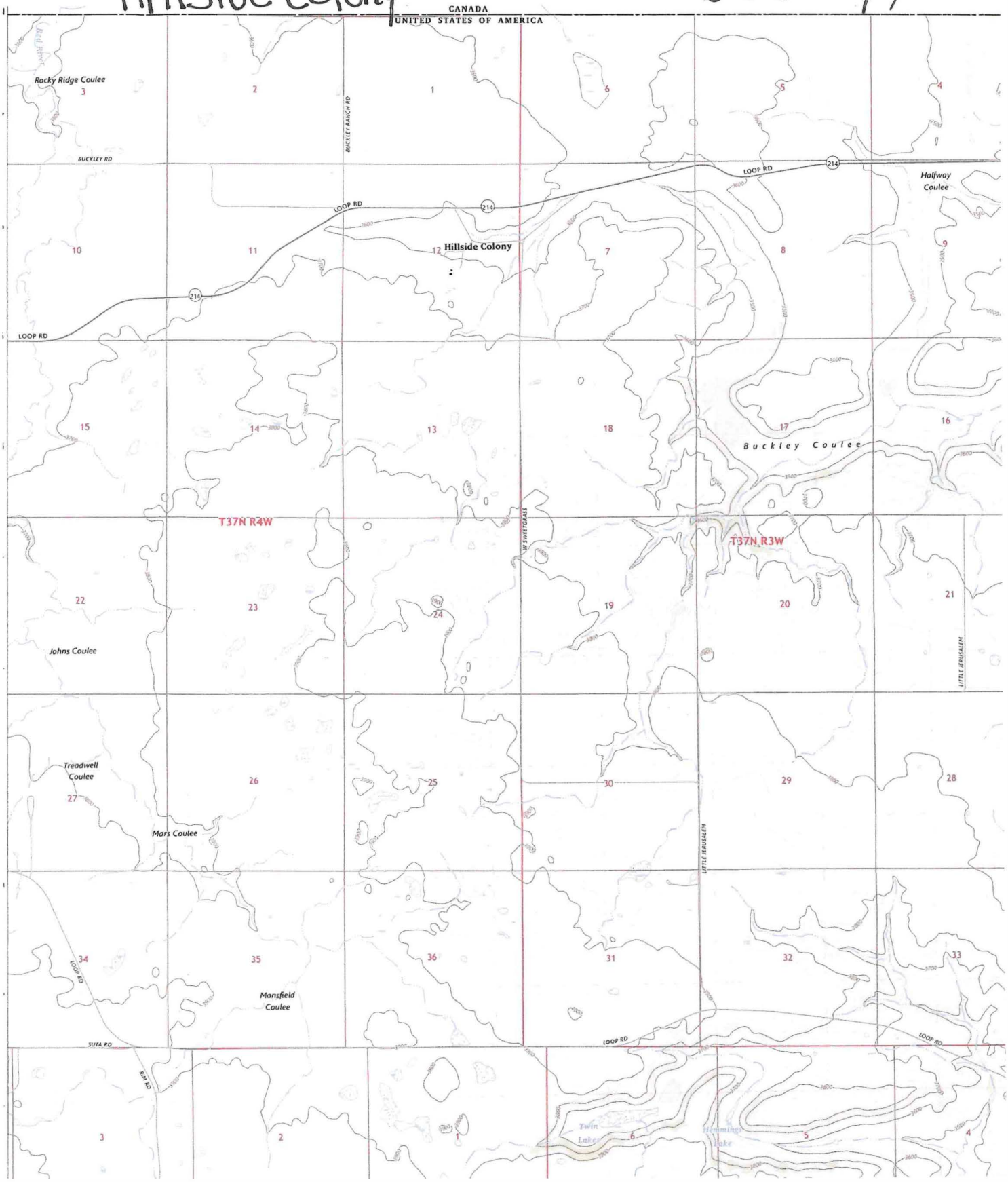
Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-5546

RECEIVED
FEB 25 2025
DEQ WATER QUALITY DIVISION

DEQ - Copy


Chicken Barn
Cow Pens
Not used
Hillside Colony
Horizon Colony School
Hillside Colony, MT
200 m
3D
Search 9:15 PM Tue Feb 18

 Hillside Colony IMG_0057.jpeg DEQ Copy



Hillside Colony Soils DEQ Copy

USDA Natural Resources Conservation Service

Web Soil Survey

Contact Us | Subscribe | Archived Soil Surveys | Soil Survey Status | Glossary | Preferences | Link | Logout | Help

Area of Interest (AOI) | Soil Map | Soil Data Explorer | Download Soils Data | Shopping Cart (Free)

View Soil Information By Use: All Uses

Printable Version | Add to Shopping Cart

Intro to Soils | Suitabilities and Limitations for Use | Soil Properties and Qualities | Ecological Sites | Soil Reports

Search

Clear | Search

Basic Search

Enter keywords

Advanced Search

Clear | Search

Soil Reports

Open All | Close All

AOI Inventory

- Component Description (Nontechnical)
- Component Legend

View Description | View Soil Report

Options

Include minor soils?

View Description | View Soil Report

- Component Text Descriptions
- Descripción de la Unidad de Mapa
- Descripción de la Unidad de Mapa (Breve, Generada)
- Legend
- Map Unit Description
- Map Unit Description (Brief)
- Map Unit Description (Brief, Generated)
- Sagebrush Ecosystems Resilience and Resistance Soils Report
- Selected Soil Interpretation Description and Criteria Summary
- Selected Soil Interpretations
- Survey Area Data Summary
- Survey Area Map Unit Symbols and Names
- Water Quality Index (WQIag) Soil Factors

Building Site Development

- Dwellings and Small Commercial Buildings

Construction Materials

- Source of Reclamation Material, Roadfill, and Topsoil

Soil Map

Scale 1:50,000 ± 1 %

Report — Component Legend

Toole County, Montana

Map unit symbol and name	Map unit acres	Pct. of map unit	Component name	Component kind	Pct. slope Low	RV	High
12C—Tally fine sandy loam, 2 to 8 percent slopes	1,668						

Toole County, Montana

20C—Cabba loam, 4 to 8 percent slopes	756	90	Tally	Series	2.0	5.0	8.0
		85	Cabba	Series	4.0	6.0	8.0
28A—Nishon clay loam, 0 to 1 percent slopes	8,769	90	Nishon	Series	0.0	0.0	1.0
37C—Evanston clay loam, 4 to 8 percent slopes	1,515	85	Evanston	Series	4.0	6.0	8.0
39B—Ferd loam, 0 to 4 percent slopes	10,387	85	Ferd	Series	0.0	2.0	4.0
48B—Vanda silty clay, 0 to 4 percent slopes	6,657	85	Vanda	Series	0.0	2.0	4.0
48C—Vanda silty clay, 4 to 8 percent slopes	311	85	Vanda	Series	4.0	6.0	8.0
54B—Trudau loam, 0 to 4 percent slopes	9,993	85	Trudau	Series	0.0	2.0	4.0
64B—Nobe clay, 0 to 4 percent slopes	2,361	85	Nobe	Series	0.0	2.0	4.0
67B—Bearpaw clay loam, 0 to 4 percent slopes	1,288	85	Bearpaw	Series	0.0	2.0	4.0
72F—Zahill loam, 25 to 45 percent slopes	3,276	85	Zahill	Series	25.0	35.0	45.0
75B—Farnuf clay loam, 0 to 3 percent slopes	8,418	85	Farnuf	Series	0.0	2.0	3.0
75C—Farnuf clay loam, 3 to 8 percent slopes	2,489	85	Farnuf	Series	3.0	6.0	8.0
82B—Wyola silty clay loam, 0 to 3 percent slopes	3,450	85	Wyola	Series	0.0	2.0	3.0

Toole County, Montana

93D—Tally fine sandy loam, 4 to 15 percent slopes	210					
		90	Tally	Series	4.0	8.0	15.0
96C—Macar loam, 4 to 8 percent slopes	635					
		85	Macar	Series	4.0	6.0	8.0
96D—Macar loam, 8 to 15 percent slopes	599					
		85	Macar	Series	8.0	12.0	15.0
110A—Korchea-Kiwanis complex, 0 to 2 percent slopes	190					
		50	Korchea	Series	0.0	1.0	2.0
		40	Kiwanis	Series	0.0	1.0	2.0
201F—Cabba-Rock outcrop complex, 25 to 70 percent slopes	2,498					
		60	Cabba	Series	25.0	48.0	70.0
		25	Rock outcrop	Miscellaneous area			
202F—Cabba-Dast fine sandy loams, 25 to 45 percent slopes	2,349					
		45	Cabba	Series	35.0	40.0	45.0
		40	Dast	Series	25.0	30.0	35.0
222E—Sunburst-Bascovy-Neldore complex, 8 to 25 percent slopes	8,708					
		35	Sunburst	Series	8.0	17.0	25.0
		25	Bascovy	Series	8.0	17.0	25.0
		20	Neldore	Series	8.0	17.0	25.0
311B—Creed-Gerdrum-Absher complex, 0 to 4 percent slopes	19,921					
		35	Creed	Series	0.0	2.0	4.0
		30	Gerdrum	Series	0.0	2.0	4.0
		20	Absher	Series	0.0	2.0	4.0
323C—Sagedale silty clay loam, 2 to 8 percent slopes	672					
		85	Sagedale	Series	2.0	5.0	8.0
421C—Joplin-Hillon loams, 2 to 8 percent slopes	91,357					
		50	Joplin	Series	2.0	5.0	8.0

Toole County, Montana						
		40 Hillon	Series	2.0	5.0	8.0
481A—Bigsag silty clay, 0 to 2 percent slopes	1,783					
		85 Bigsag	Series	0.0	1.0	2.0
691B—Williams-Vida loams, 0 to 4 percent slopes	11,877					
		50 Williams	Series	0.0	2.0	4.0
		35 Vida	Series	0.0	2.0	4.0
694C—Williams-Vida loams, 2 to 8 percent slopes	52,579					
		45 Williams	Series	2.0	5.0	8.0
		40 Vida	Series	2.0	5.0	8.0
695D—Vida-Williams, Zahill-high precipitation loams, 4 to 15 percent slopes	46,822					
		40 Vida	Series	4.0	10.0	15.0
		30 Williams	Series	4.0	10.0	15.0
		15 Zahill, high precipitation	Taxadjunct	4.0	10.0	15.0
696E—Zahill-Vida clay loams, 8 to 25 percent slopes	15,883					
		45 Zahill	Taxadjunct	8.0	17.0	25.0
		40 Vida	Series	8.0	17.0	25.0
721F—Zahill-Zahl clay loams, 15 to 60 percent slopes	15,934					
		40 Zahill	Taxadjunct	15.0	38.0	60.0
		35 Zahl	Taxadjunct	15.0	38.0	60.0
961B—Macar clay loam, 0 to 4 percent slopes	295					
		85 Macar	Series	0.0	2.0	4.0
W—Water	15,923					
		100 Water	Miscellaneous area			

Description – Component Legend

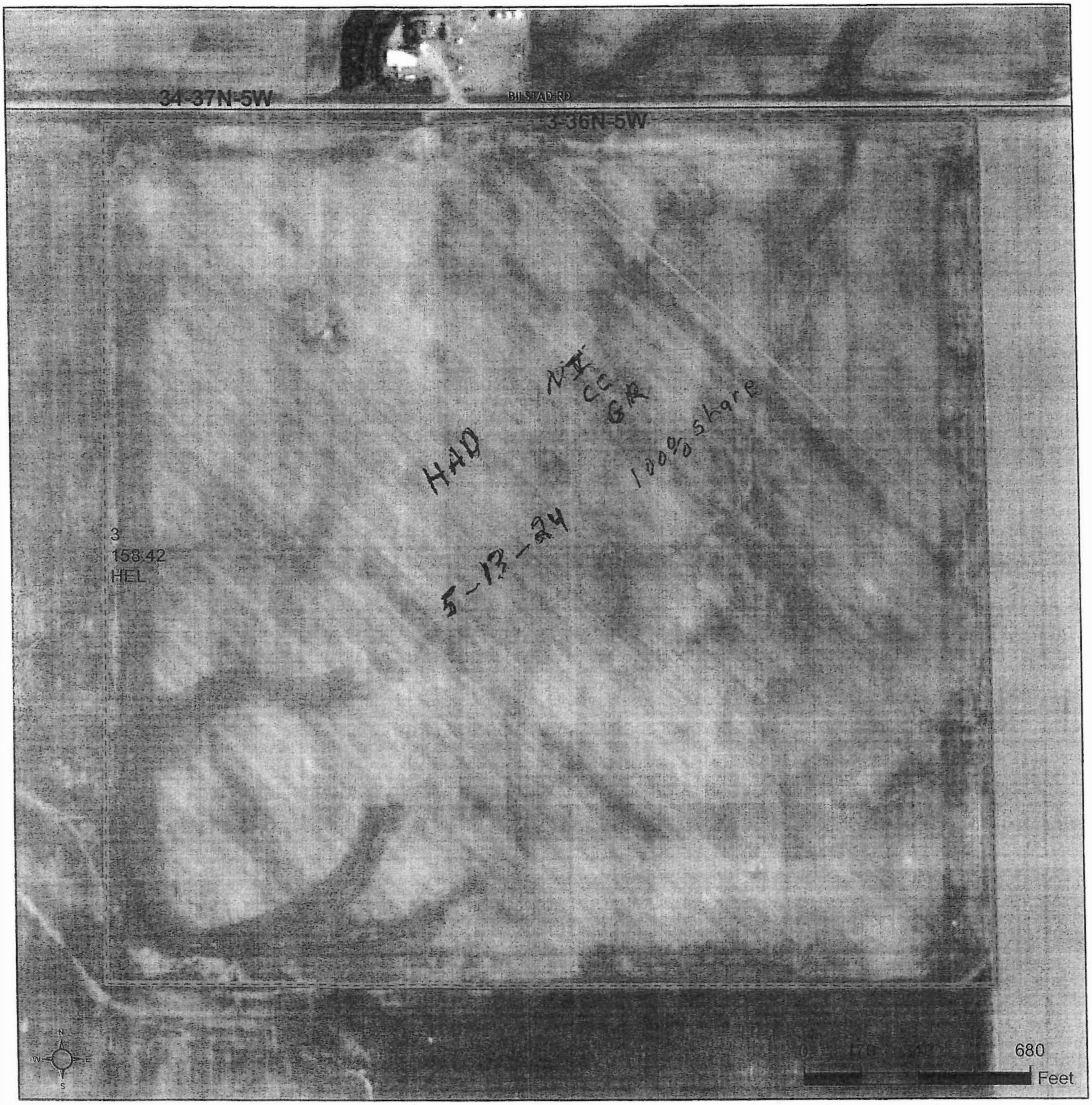
Component Legend

This report presents general information about the map units and map unit components in the selected area. It shows map unit symbols and names and the components in each map unit. It also shows the percent of the components in the map units, the kind of component, and the slope range of each component.

Blue Skies Farms INC DEQ - Copy

USDA United States Department of Agriculture

Glacier County, Montana



Common Land Unit

Cropland

Tract Boundary

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Kenny South of house

1-406-470-1035

JUL 1 2024

Tract Cropland Total: 158.42 acres

2024 Program Year

Map Created August 09, 2023

2021 NAIP

Farm **9941**

Tract **1292**

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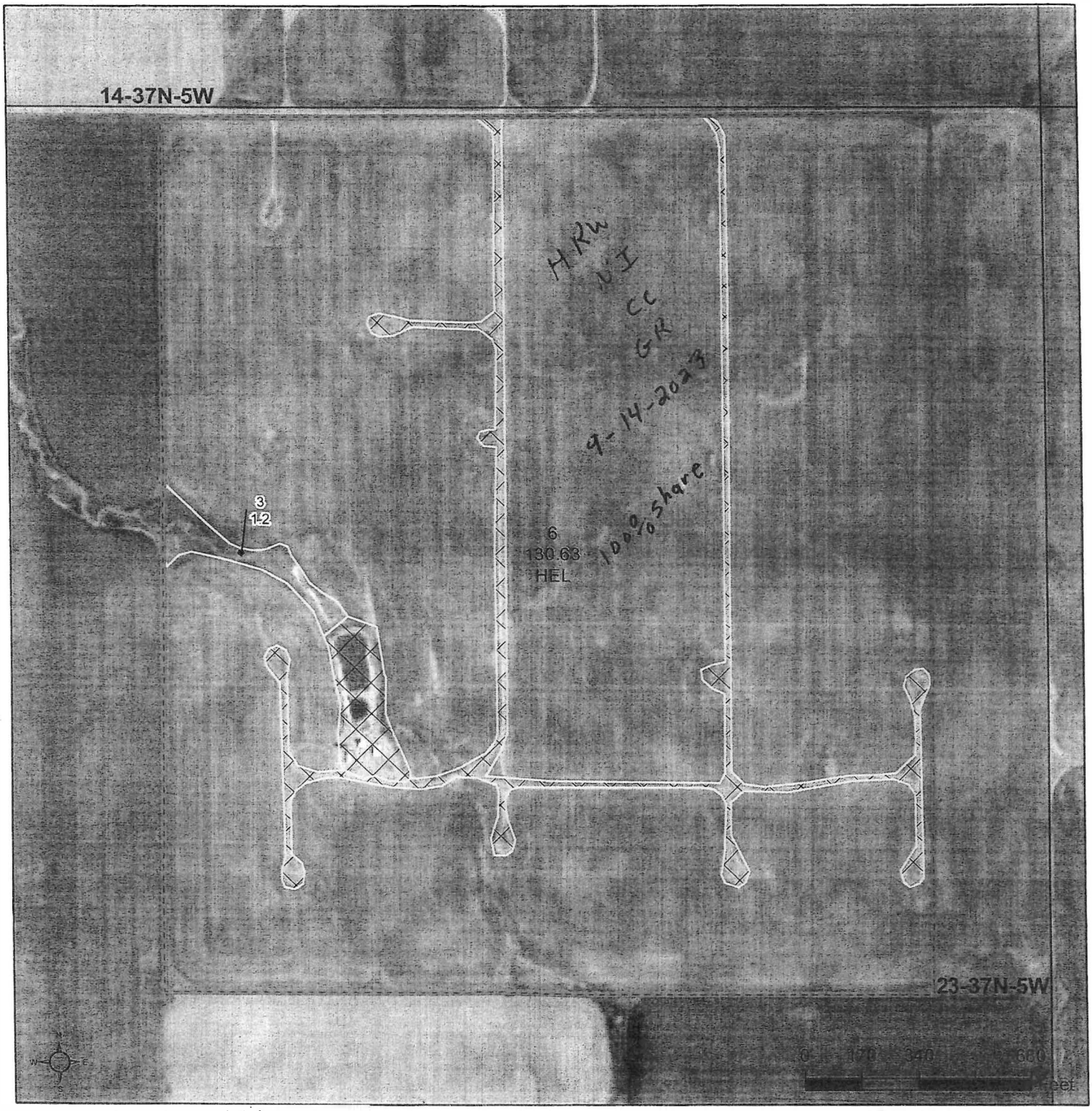
Blue skies farms INC

USDA United States Department of Agriculture

Glacier County, Montana



Common Land Unit
- Cropland
- Rangeland
- Other Use
- Tract Boundary

East kruger
1-406-470-1035

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

2024 Program Year
Map Created August 08, 2023
2021 NAIP

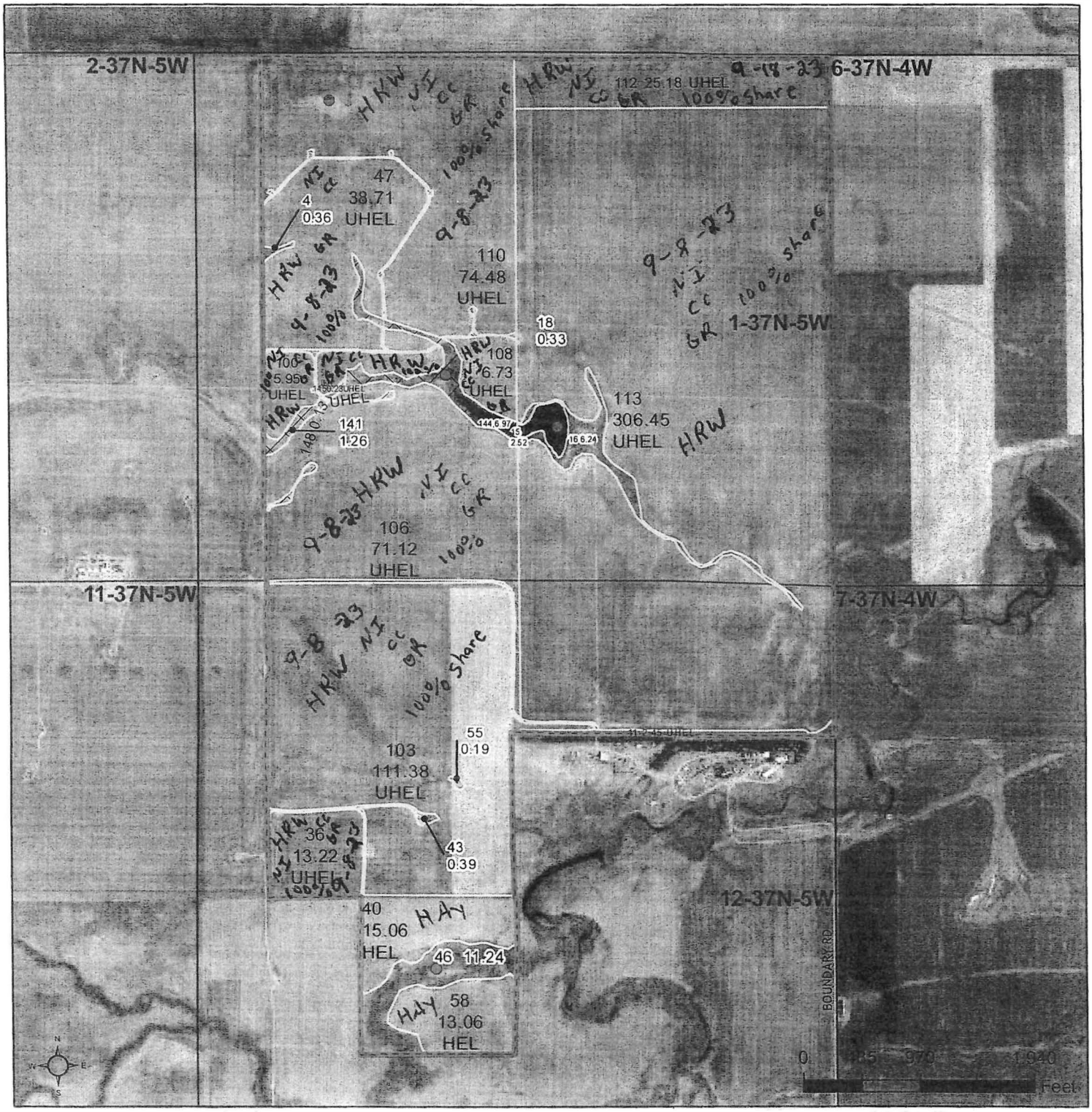
Farm **4274**
Tract **126670**

Tract Cropland Total: 130.63 acres

Hillside – [redacted] INC

USDA United States Department of Agriculture

Glacier County, Montana



Common Land Unit
- Cropland
- Rangeland
- Other Use
- Tract Boundary

North and West of house
Moberly
1-406-470-1035

2024 Program Year
Map Created August 09, 2023
2021 NAIP

Farm **10806**
Tract **10007**

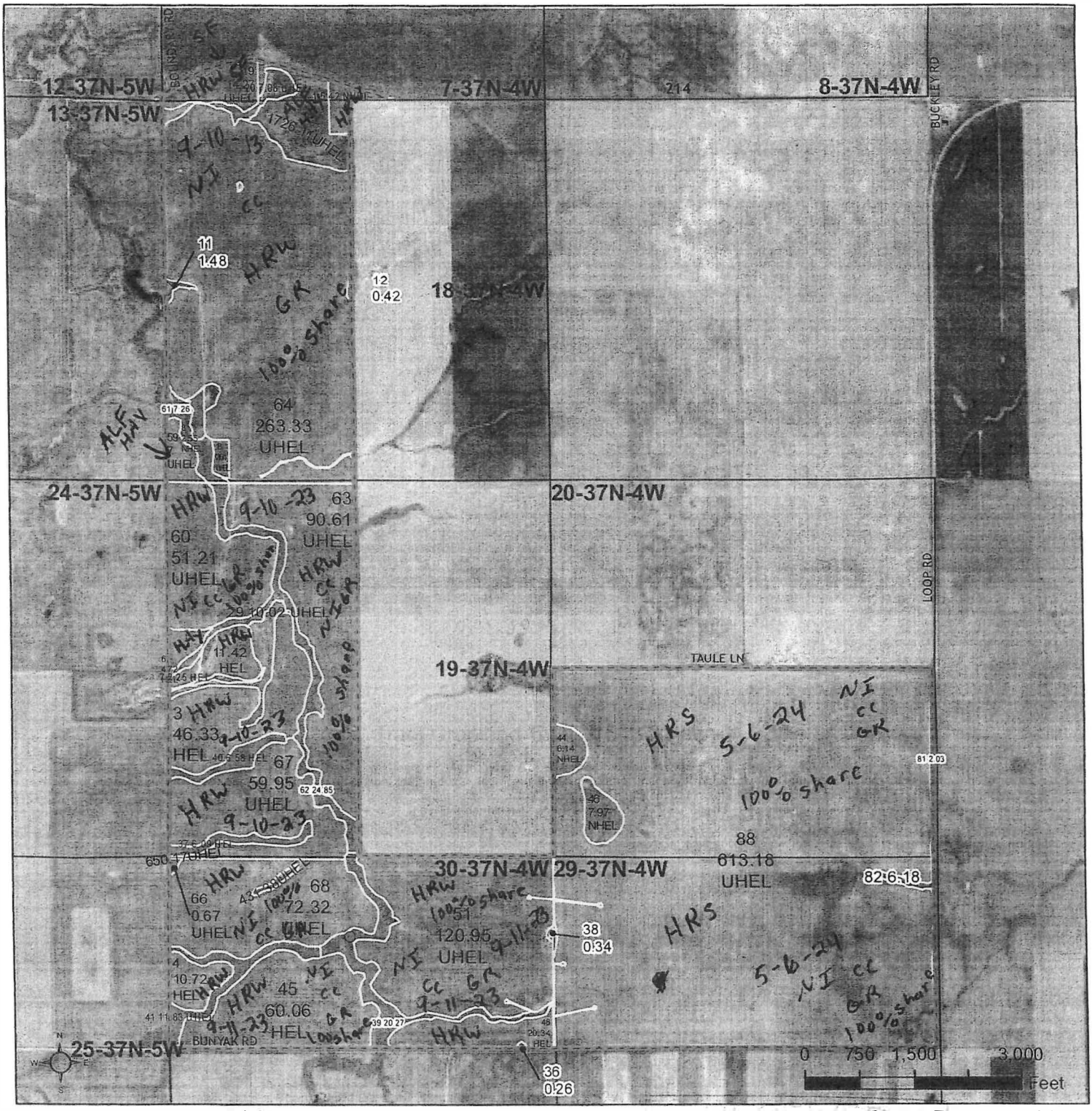
Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Tract Cropland Total: 689.30 acres

Hillside Lot IN C

USDA United States Department of Agriculture

Glacier County, Montana



Common Land Unit
- Cropland
- Rangeland
- Other Use
- Tract Boundary

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Vargo's Baileys

1-406-470-1035

2024 Program Year

Map Created August 09, 2023

2021 NAIP

Farm **10806**

Tract **9412**

Tract Cropland Total: 1543.31 acres

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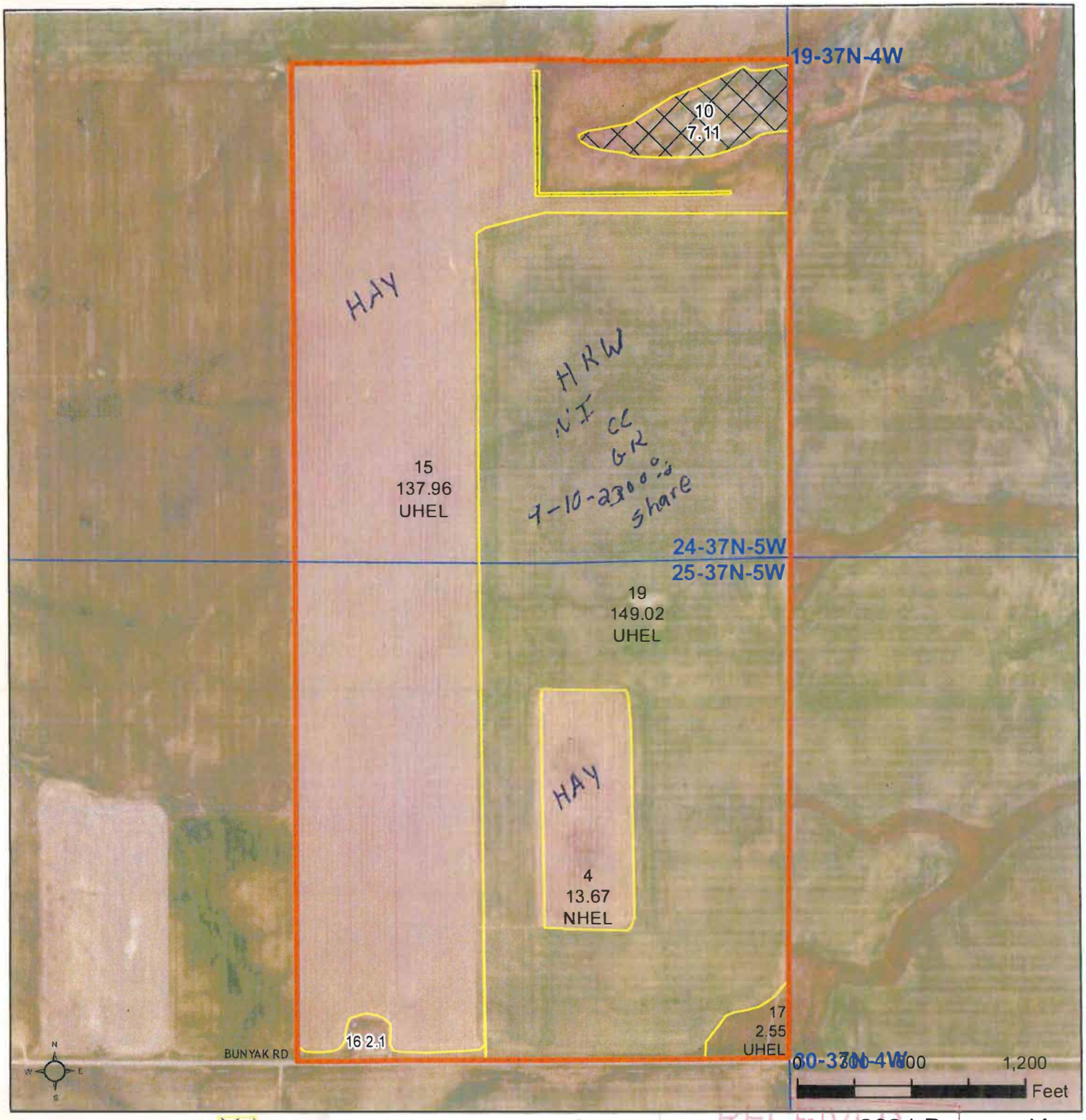
Hillside Colony Inc

USDA United States Department of Agriculture

Glacier County, Montana



Common Land Unit

- Cropland
- Rangeland
- Other Use
- Tract Boundary

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Churri

1-406-470-1035

RECEIVED JUL 1 2024 GLACIER CO FSA CUT BANK MT

2024 Program Year

Map Created August 09, 2023

2021 NAIP

Farm **10806**

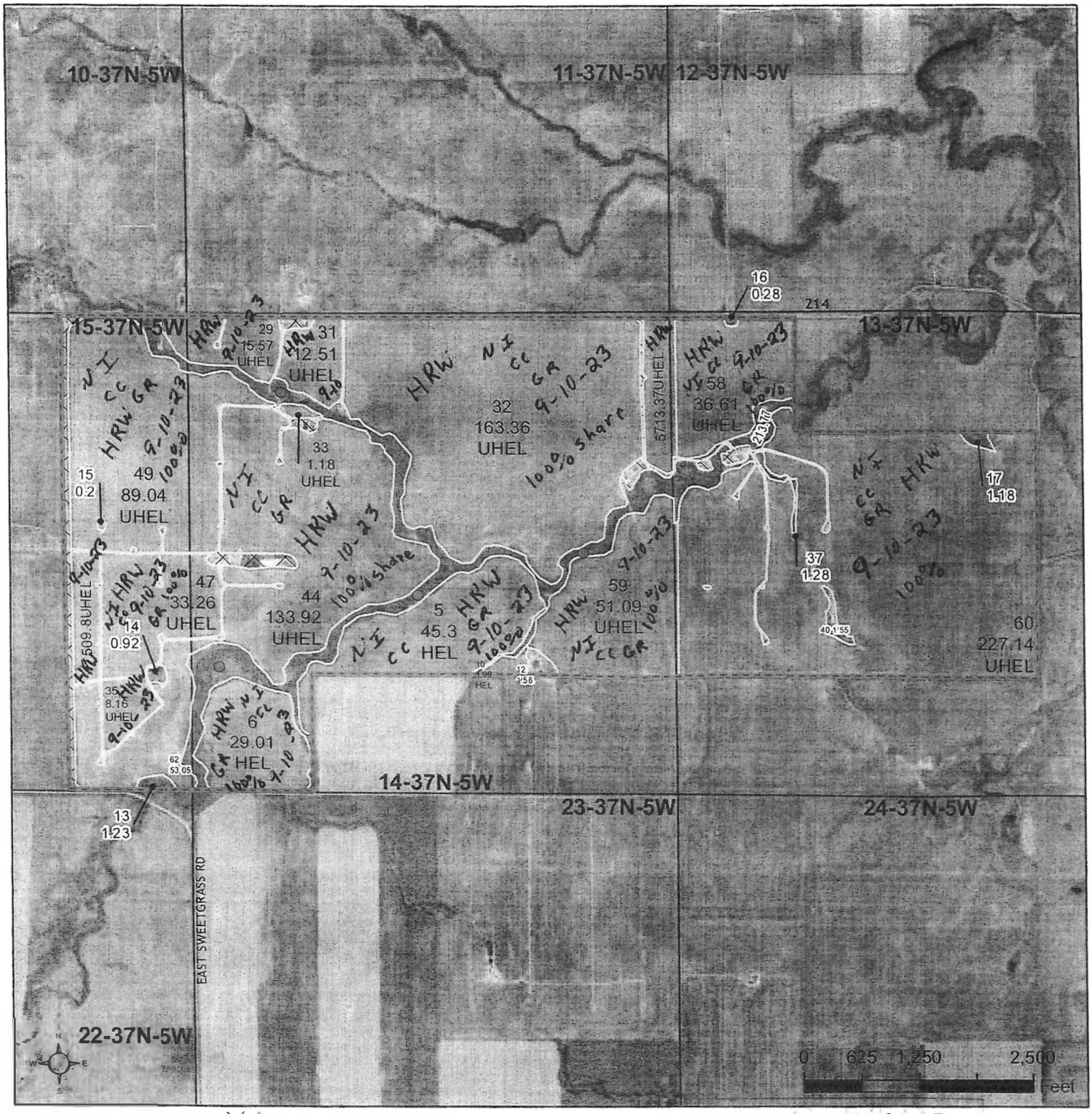
Tract **45**

Tract Cropland Total: 303.20 acres

Hillside 34 Inc

USDA United States Department of Agriculture

Glacier County, Montana



Common Land Unit
- Cropland
- Rangeland
- Other Use
- Tract Boundary

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Cobb Kruger
1-406-470-1035

2024 Program Year
Map Created August 09, 2023
2021 NAIP
Farm **10806**
Tract **9415**

Tract Cropland Total: 871.31 acres

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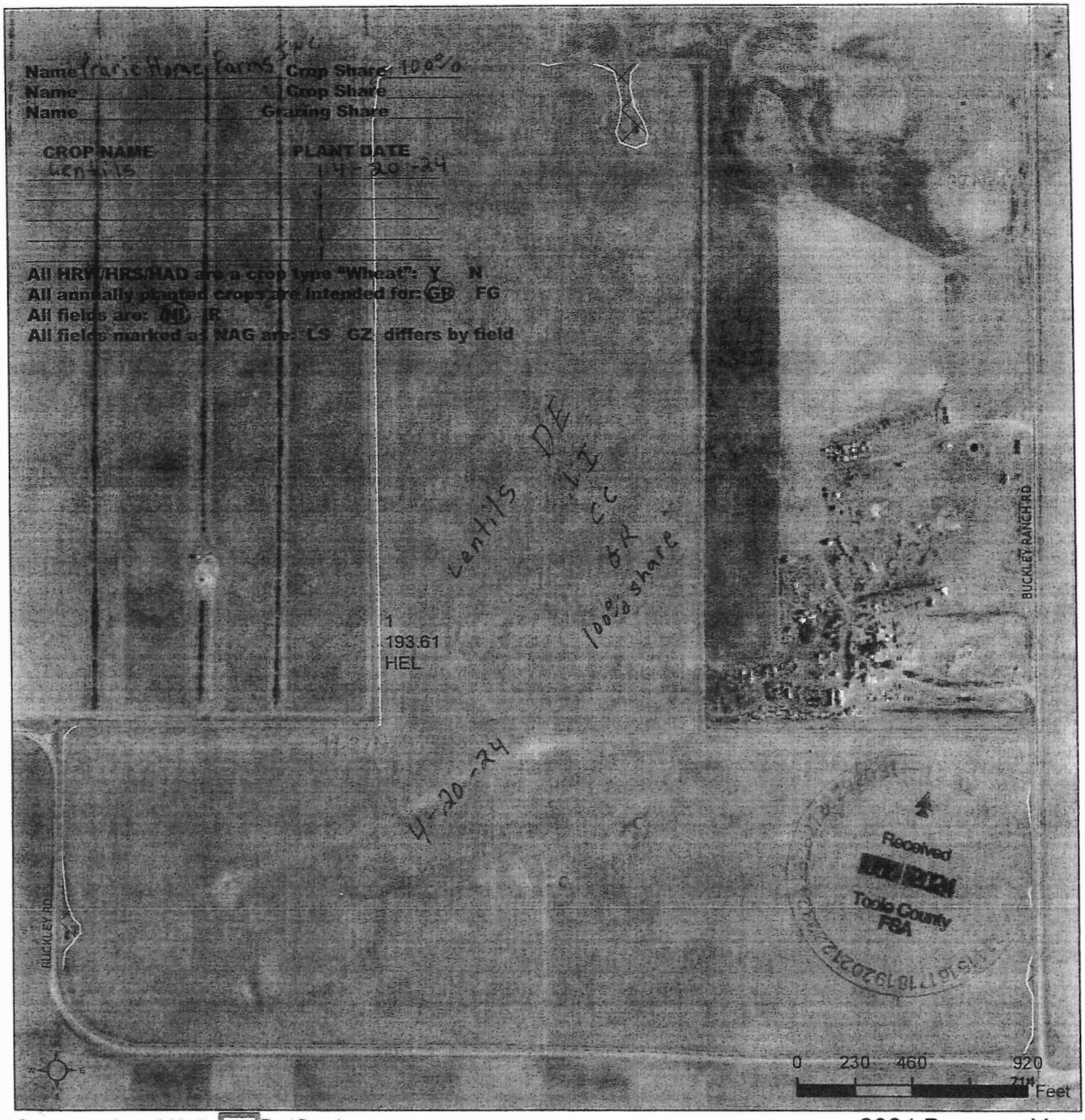
Tract Name

USDA United States Department of Agriculture

Toole County, Montana



Common Land Unit Tract Boundary

Cropland

Other Use

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Buckley
1-406-470-1035

Tract Cropland Total: 193.61 acres

2024 Program Year

Map Created October 16, 2023

2021 NAIP

Farm **4285**

Tract **10571**

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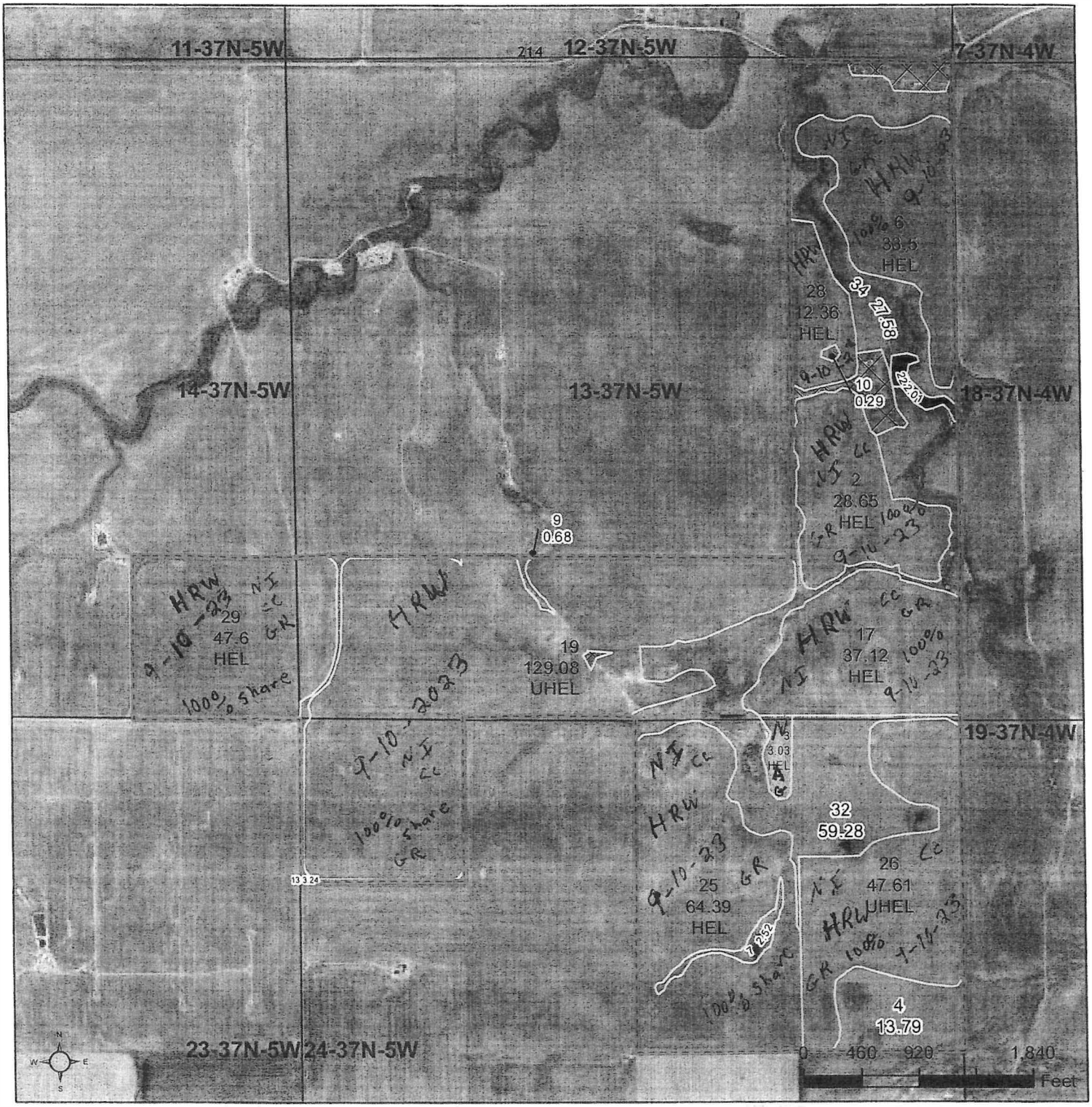
Hillside Colony

USDA United States Department of Agriculture

Glacier County, Montana



Common Land Unit
- Cropland
- Rangeland

Other Use

Tract Boundary

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Berth Swenson

1-406-470-1035

2024 Program Year

Map Created August 09, 2023

2021 NAIP

Farm **10803**

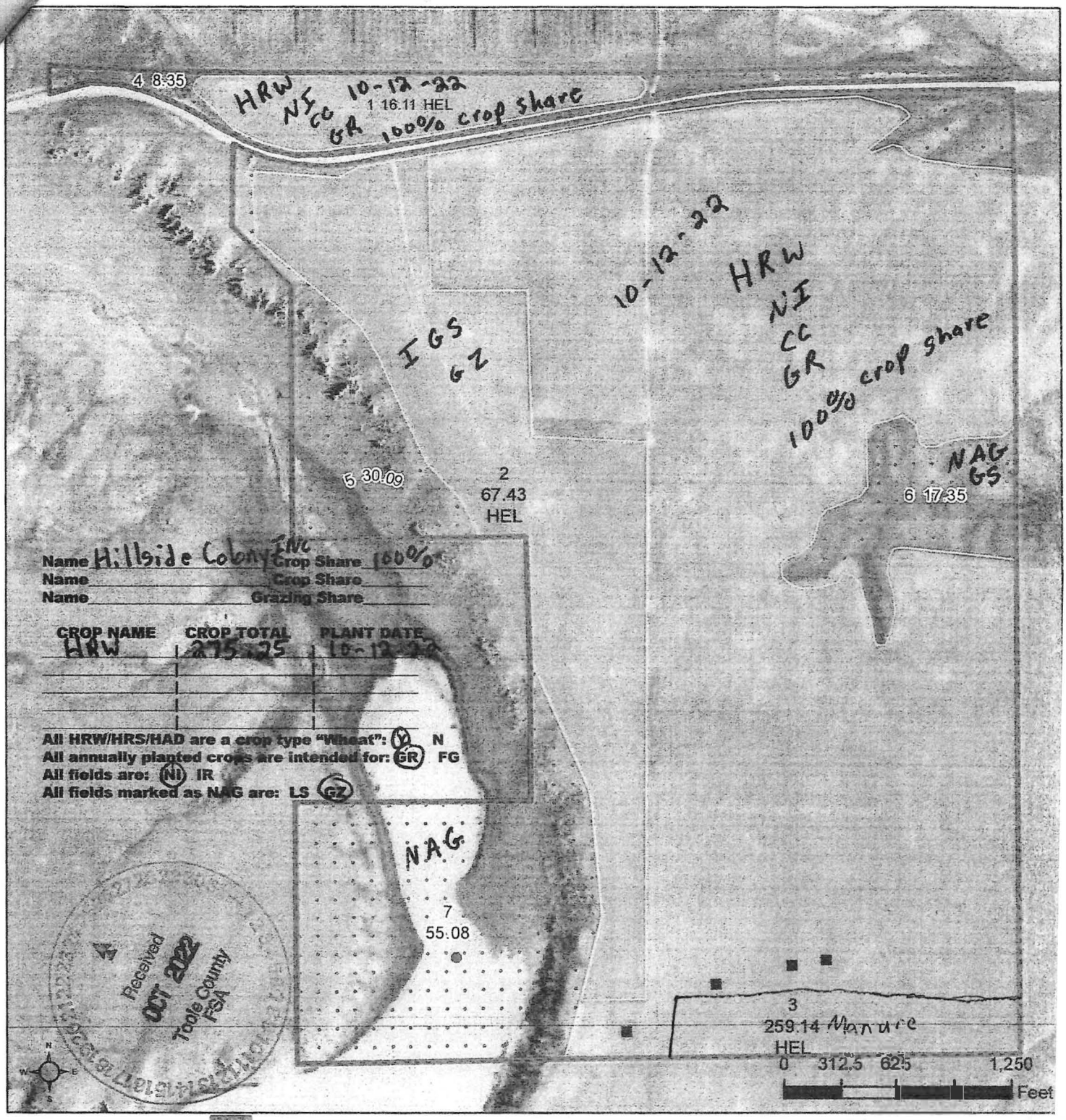
Tract **9408**

Tract Cropland Total: 403.34 acres

Hillside Colony INC

United States Department of Agriculture

Toole County, Montana



Common Land Unit Tract Boundary

- Cropland
- Rangeland

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Sandy
1-406-470-1035

Tract Cropland Total: 342.68 acres

2023 Program Yea
Map Created October 17, 202
2021 NAI
Farm 374
Tract 699
8-37N-3V

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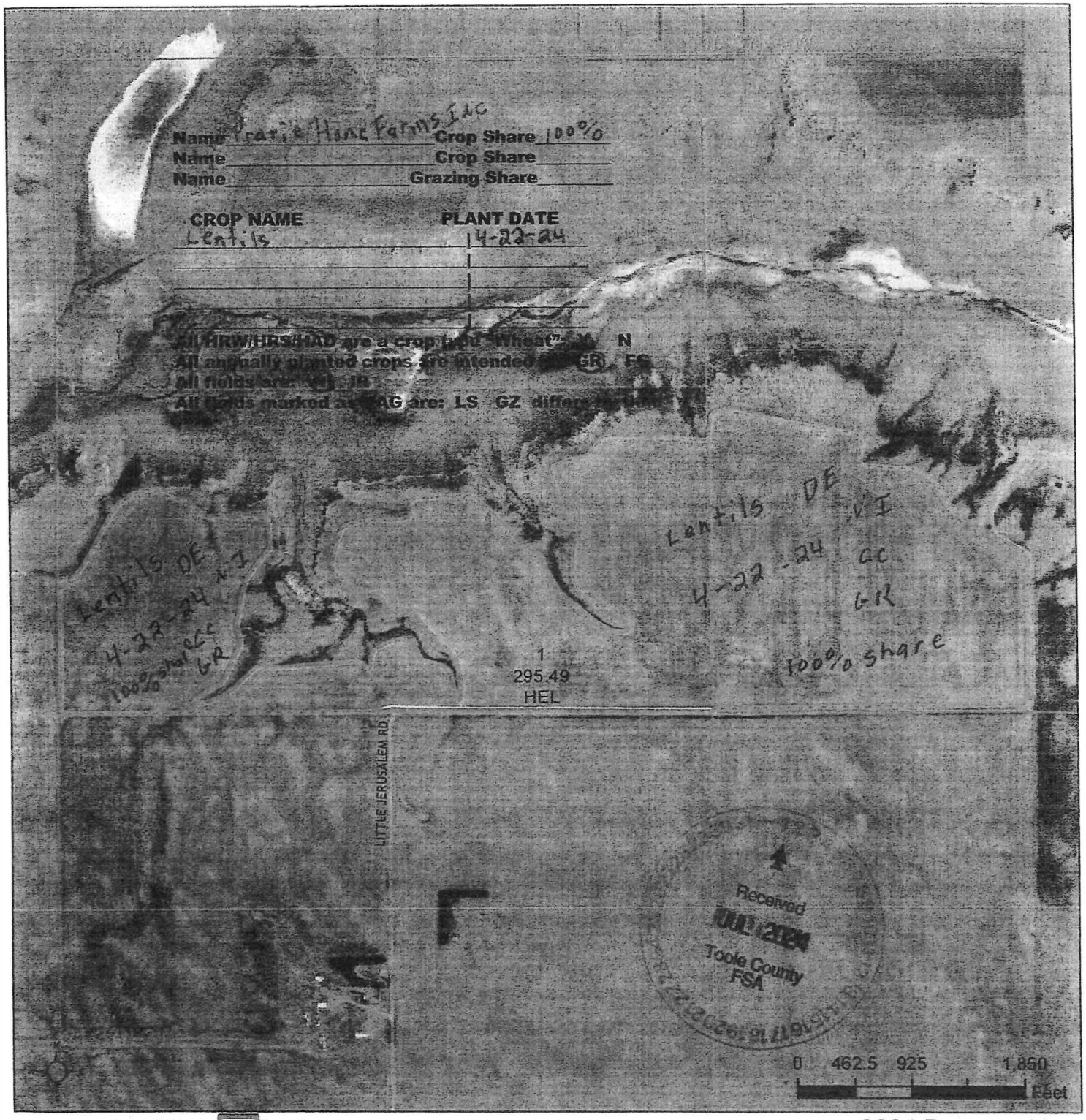
Prairie Home Farms Inc

USDA United States Department of Agriculture

Toole County, Montana



Common Land Unit Tract Boundary

Cropland

Other Use

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Keller Mitchal

1-406-470-1035

Tract Cropland Total: 295.49 acres

2024 Program Year

Map Created October 16, 2023

2021 NAIP

Farm **4285**

Tract **10569**

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