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WATER PROTECTION BUREAU

Agency Use

Permit No.: MTG010280

Date Rec'd 2.23.24

Amount Rec'd 0

Check No. 0

Rec'd By JMF

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: MTG010280

- Select Appropriate Fee: [ ] New Application: \$1200 [x] 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: Hidden Valley Colony
Location: South Gildford
Nearest City or Town: Gildford
Zip Code, County: 59525, Hill
Facility Latitude, Longitude: 48.3421026, -110.239692
Date facility began operation: 21-Jan-2015
Status of Applicant: [x] Private
Located on Tribal Lands? [x] No

Continue to Page 2

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Text in blue added 2/12/25 by HN in response to correspondence from permittee received 2/6/25.

**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 Samuel A. Hofer - Hidden Valley Colony  
Mailing Address PO Box 187  
City, State, Zip Code Girdler, MT 59525  
Signatory/Responsible Official Name Samuel Hofer Title Pres  
Contact Information Phone 406-376-3165 Email stevehofer20@gmail.com

**2.2 Authorized Representative**

(Note: Sam Hofer does not have an email address. Listed address is for his son, Stephen Hofer)

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 Joe Carleton Title Consultant  
Company Name Dix Fork Ag  
Mailing Address 301 Main St  
City, State, Zip Code Ledger, MT 59528  
Contact Information Phone 406-788-0653 Email dixforkjoe@gmail.com

**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) 213	Hogs
(3)	
(4)	

NAICS Code	Description
(1) 11234	Chicken Eggs
(2) 11221	Hogs
(3)	
(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.)

chicken egg, sow Isoring

**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	48.4186110	-111.217556	<del>Upper Milk</del> Halfway Coulee to Sage Creek
002	48.3466664	-110.235014	<del>Louise Lake</del> Halfway Coulee to Sage 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://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	0	0
Veal Calves	0	0
Cattle including dairy Heifers	0	0
Swine 55 lbs. or over	0	1500
Swine 55 lbs. or under	0	0
Horses	0	0
Sheep or Lambs	0	0
Turkeys	0	0
Chicken broilers –includes juveniles	0	0
Chicken layers –includes juveniles	0	42,000
Ducks	0	0
Other Specify:	0	0
Other Specify:	0	0

**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 42.3421026, -110.239692

**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	4,400,000	gallons	365
Above Ground Storage Tank #2			
Above Ground Storage Tank #3			
Underfloor Pits	1,009,870	gallons	365
Below Ground Storage Tank			
Roofed Storage Shed			
Concrete Pad	4000	ton	730
Impervious Soil Pad			
Other Specify:			
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 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. <i>Chicken (layers)</i>	<i>concrete pad</i>	<i>48,000</i>	<i>365</i>	<i>1500</i>	
2. <i>Hogs</i>	<i>above ground tank</i>	<i>1500</i>	<i>365</i>		<i>3,000,000</i>
3.					
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.

previous years production & similar operations

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**Manure handling:**

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

- Stored in pens
- Direct pipe to liquid impoundment
- Stored on stacking pad
- Stored under floor pit
- Composting on site
- Separator
- Other \_\_\_\_\_

Frequency of manure removal from confinement areas:

- Bi-annually
- As needed
- Annually
- Other litter every 2 yrs

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 pad

**Waste control structures:**

Provide the 24-hr-25-yr storm event at your facility location. Refer to the map provided in the instructions. 3.0 in/hr

Provide the annual precipitation during critical winter storage period (180 days from mid-October to mid-April) 8.0 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. 2.0 acres

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

- Dirt 2.0 acres or ft<sup>2</sup> (circle correct unit)
- Concrete \_\_\_\_\_ acres or ft<sup>2</sup> (circle correct unit)
- Paved \_\_\_\_\_ acres
- Under roof \_\_\_\_\_ acres or ft<sup>2</sup> (circle correct unit) – check if runoff is not part of clean water BMPs
- Gravel \_\_\_\_\_ acres or ft<sup>2</sup> (circle correct unit)
- Pasture \_\_\_\_\_ acres or ft<sup>2</sup> (circle correct unit)
- Other \_\_\_\_\_ acres or ft<sup>2</sup> (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 <sup>3</sup> if dry)	Number of days of storage	Winter storage depth (ft)	The 24hr-25 yr storm event depth (ft)
1. Concrete pad	4000 ton	720	5.0	6.0
2. Above ground tank	4,400,000	365	6.0	9.0
3. Under floor pit	1,009,870	365	2.0	2.0
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:

*composted in dry stack*

**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 state waters.

- Fencing
- Inside building
- Wall
- 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.

NONE

**6.6 Conservation Practices**

Check all temporary, permanent, and structural BMPs which will be used to control runoff 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 supplement the BMP descriptions. Attach additional sheets if necessary.

- Ditches
- Site grading
- Earthen berms
- Gutters and spouts
- Culverts and pipes
- Covered Pens
- Buffers
- 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 sampling. Be sure to provide a description if you select "other."

- Sample collection will occur according to CAFO General Permit Section II.D.
- Other \_\_\_\_\_

Continued to Page 10

## 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 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.

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Buffers            | <input checked="" type="checkbox"/> Conservation tillage |
| <input type="checkbox"/> Constructed wetlands          | <input checked="" type="checkbox"/> Grass Filter         |
| <input checked="" type="checkbox"/> Infiltration field | <input checked="" type="checkbox"/> Residue Management   |
| <input checked="" type="checkbox"/> Setbacks           | <input type="checkbox"/> Terrace                         |
| <input type="checkbox"/> 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 4H2a1-3 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. [See attached](#)

### 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.

*see Nutrient Budget examples in Facts  
Budgets are created prior to application*

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**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: < 25.0 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:

*Injection system w/ flow meter, liter spreader per NEQ-9*

**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 occurs*

Provide date and location of most recent documentation:

Date: *Dec-2024*

Location: *From Manager 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)

Samuel A. Hofer

Title (Type or Print)

President

Phone Number

406-376-3165

Signature



Date Signed

12-29-23

*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 23 2024

DEQ WATER QUALITY DIVISION

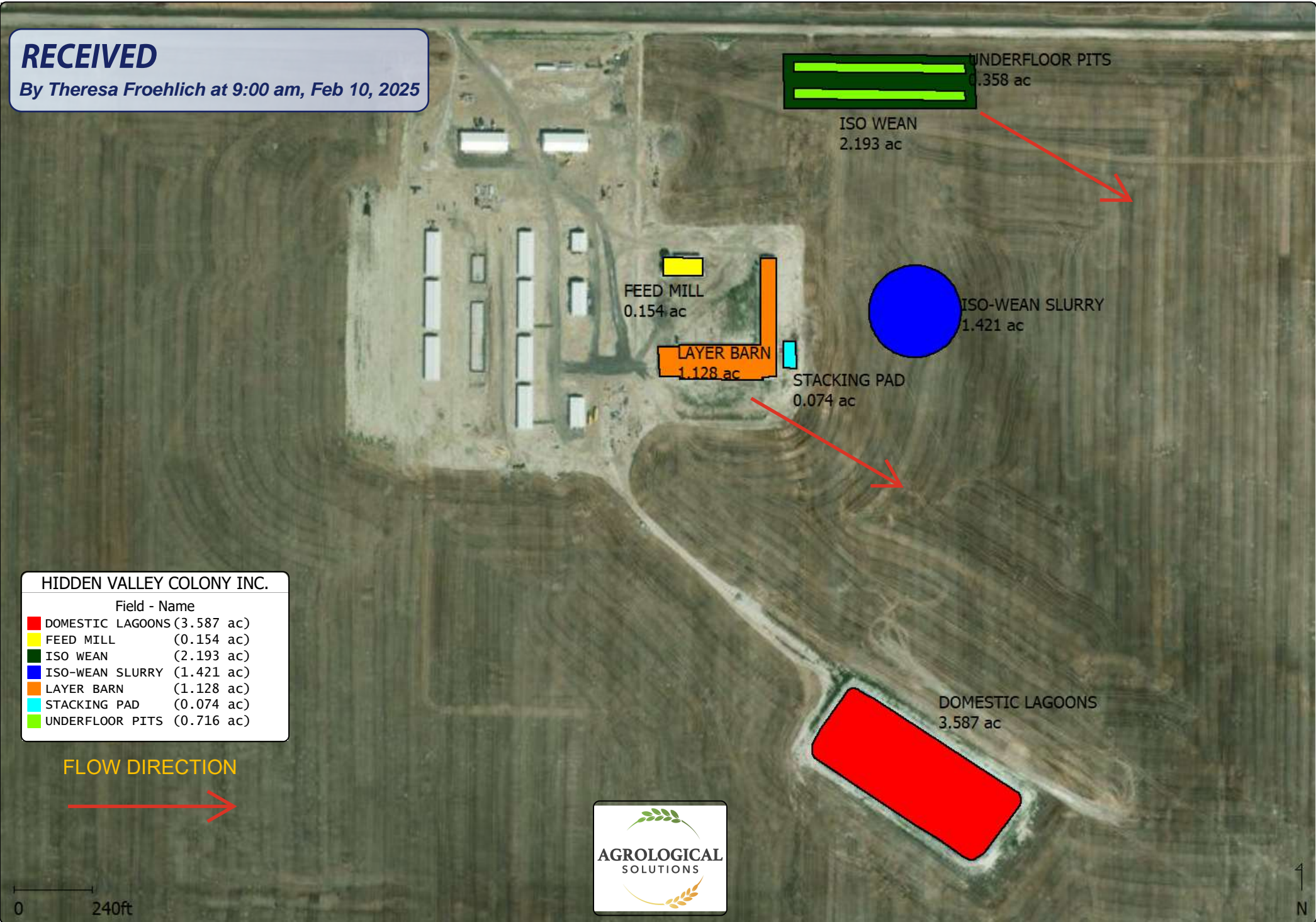
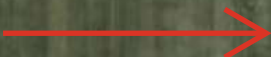
**RECEIVED**

By Theresa Froehlich at 9:00 am, Feb 10, 2025

**HIDDEN VALLEY COLONY INC.**

Field - Name	Area (ac)
DOMESTIC LAGOONS	3.587 ac
FEED MILL	0.154 ac
ISO WEAN	2.193 ac
ISO-WEAN SLURRY	1.421 ac
LAYER BARN	1.128 ac
STACKING PAD	0.074 ac
UNDERFLOOR PITS	0.716 ac

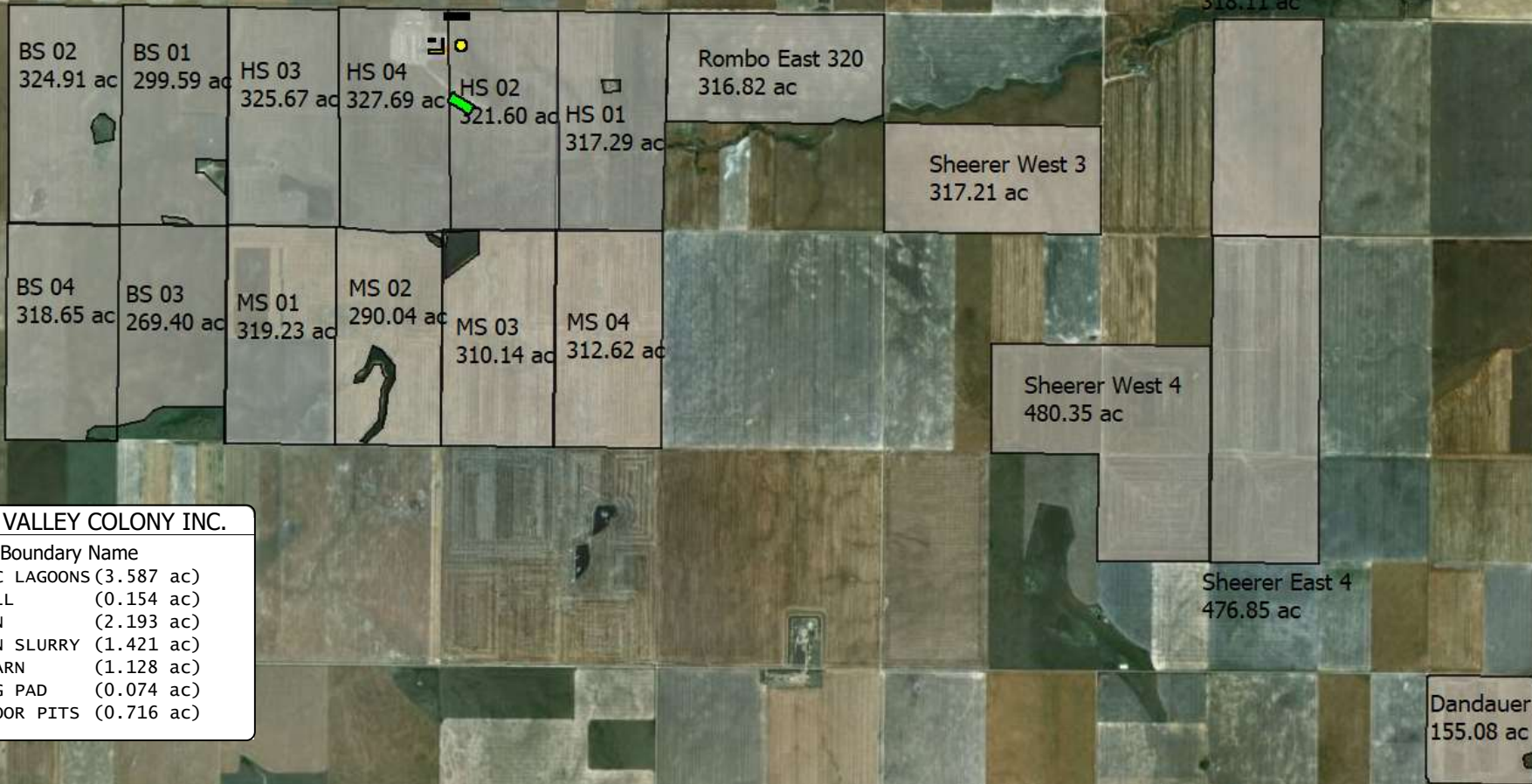
FLOW DIRECTION





**RECEIVED**

By Theresa Froehlich at 9:01 am, Feb 10, 2025



**RECEIVED**

By Theresa Froehlich at 9:01 am, Feb 10, 2025

Halfway Coulee



**HIDDEN VALLEY COLONY INC.**

Feature ID  
■ 1.00 - 1.00 (5,801.25 ac)

Field - Name

- DOMESTIC LAGOONS (3.587 ac)
- FEED MILL (0.154 ac)
- ISO WEAN (2.193 ac)
- ISO-WEAN SLURRY (1.421 ac)
- LAYER BARN (1.128 ac)
- STACKING PAD (0.074 ac)
- UNDERFLOOR PITS (0.716 ac)

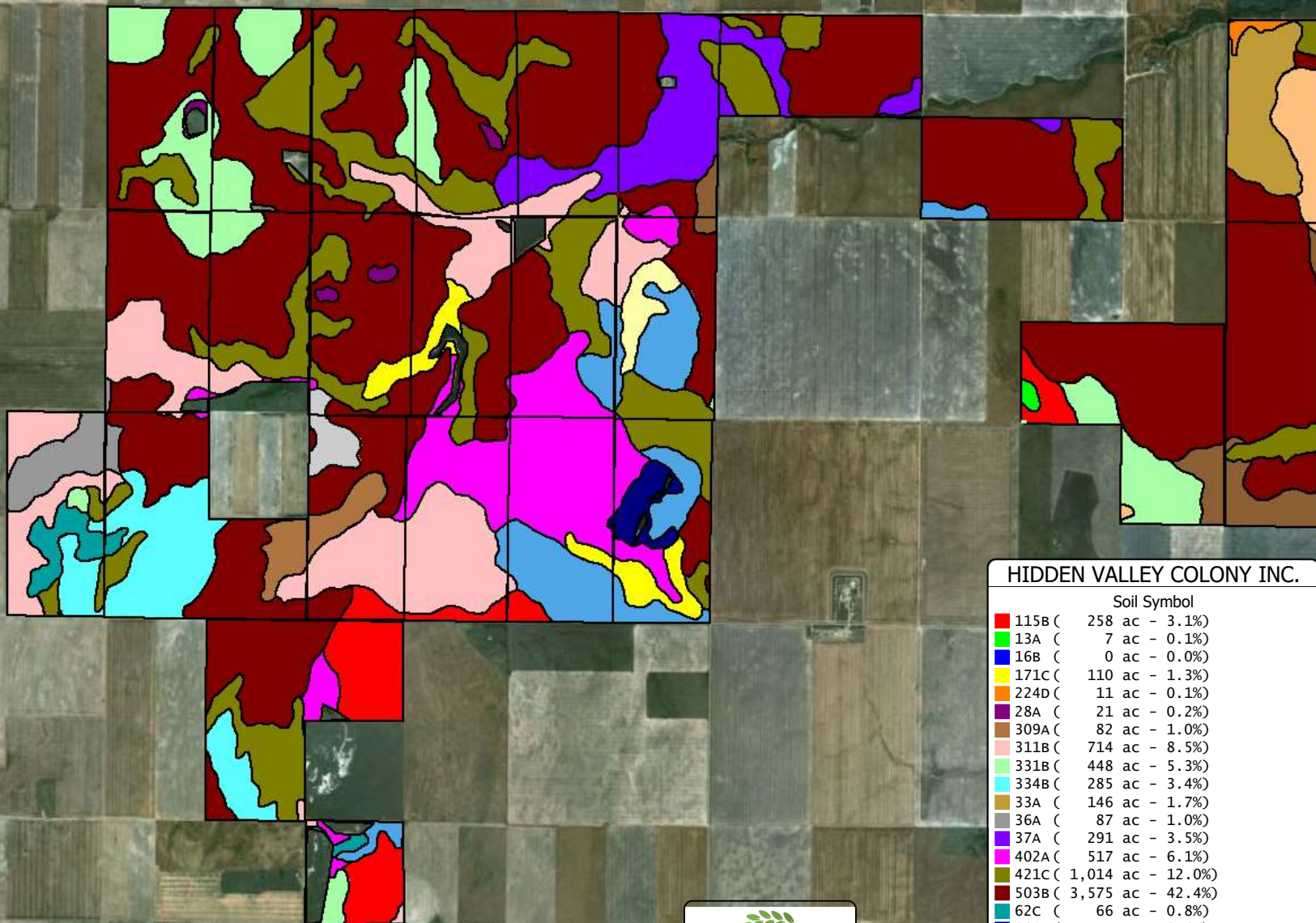


0 2400ft

4  
N

**RECEIVED**

By Theresa Froehlich at 9:07 am, Feb 10, 2025



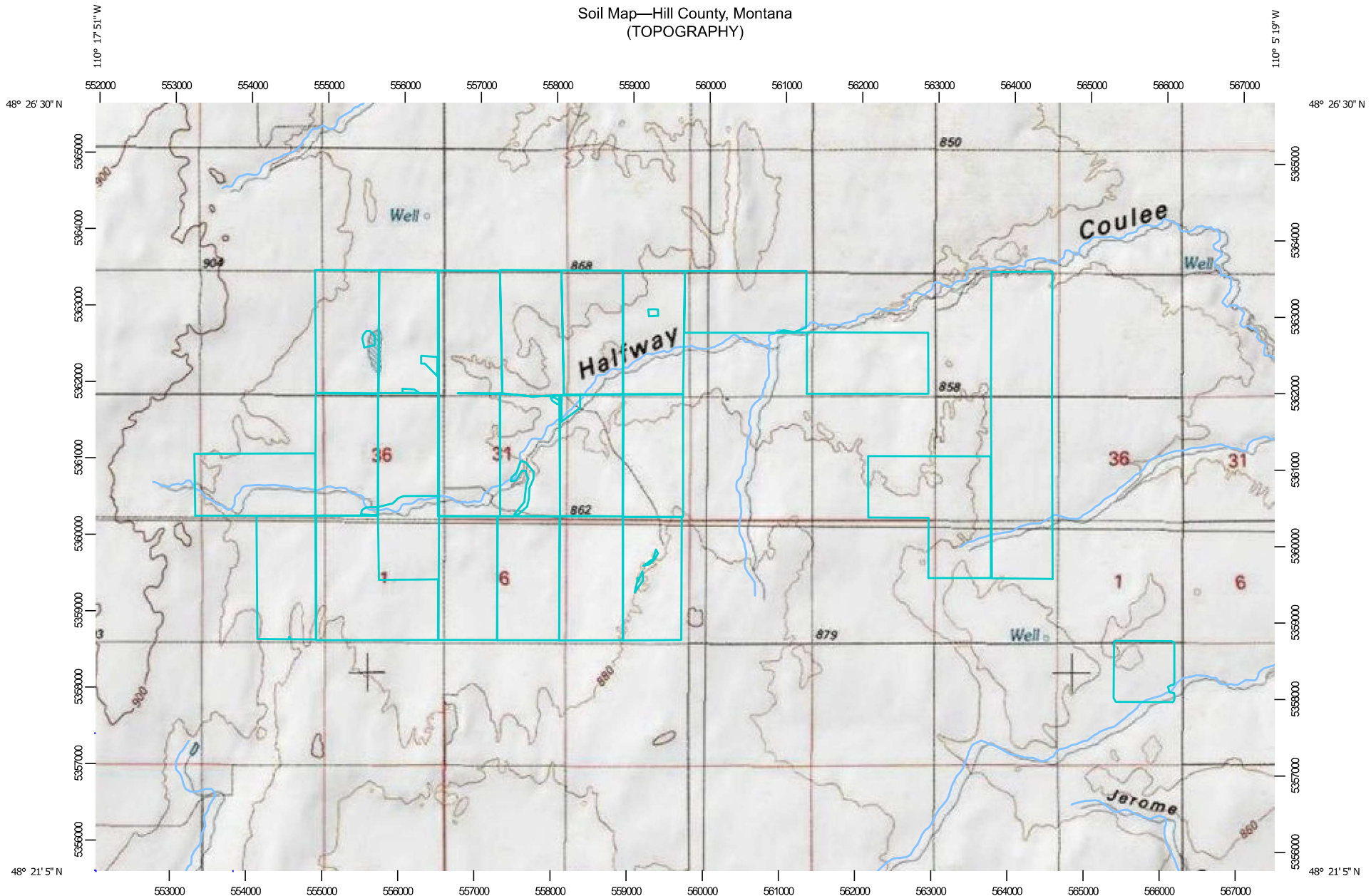
HIDDEN VALLEY COLONY INC.	
Soil Symbol	
115B	( 258 ac - 3.1%)
13A	( 7 ac - 0.1%)
16B	( 0 ac - 0.0%)
171C	( 110 ac - 1.3%)
224D	( 11 ac - 0.1%)
28A	( 21 ac - 0.2%)
309A	( 82 ac - 1.0%)
311B	( 714 ac - 8.5%)
331B	( 448 ac - 5.3%)
334B	( 285 ac - 3.4%)
33A	( 146 ac - 1.7%)
36A	( 87 ac - 1.0%)
37A	( 291 ac - 3.5%)
402A	( 517 ac - 6.1%)
421C	( 1,014 ac - 12.0%)
503B	( 3,575 ac - 42.4%)
62C	( 66 ac - 0.8%)
661C	( 47 ac - 0.6%)
951B	( 109 ac - 1.3%)
962B	( 217 ac - 2.6%)
965B	( 47 ac - 0.6%)
96B	( 337 ac - 4.0%)
98B	( 51 ac - 0.6%)



0 2600ft

4  
N

Soil Map—Hill County, Montana  
(TOPOGRAPHY)



Map Scale: 1:70,700 if printed on A landscape (11" x 8.5") sheet.

0 1000 2000 4000 6000 Meters

0 3000 6000 12000 18000 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 12N WGS84

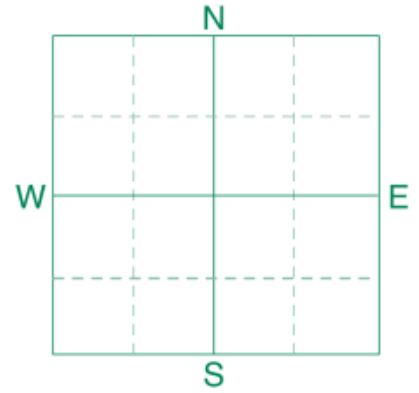
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Soil Analysis by Agvise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **home place 4**  
 SAMPLE ID **home place 4**  
 FIELD NAME  
 COUNTY  
 TWP RANGE  
 SECTION QTR ACRES **0**  
 PREV. CROP **Mustard**



**SUBMITTED FOR:**  
**TEW PLACE FARMS**  
**25210 RD 90**  
**GILDFORD, MT 59525**

**SUBMITTED BY: TE3882**  
**TEW PLACE FARMS**  
**25210 RD 90**  
**GILDFORD, MT 59525**

REF # **21289301** BOX # **4810**  
 LAB # **NW9813**

Date Sampled **03/18/2024**

Date Received **03/20/2024**

Date Reported **03/21/2024**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice									
		VLow	Low	Med	High	Wheat-Spring			Wheat-Spring			Wheat-Spring									
Nitrate	<b>0-6"</b>	<b>12 lb/acre</b>		*****				YIELD GOAL			YIELD GOAL			YIELD GOAL							
						25 BU			35 BU			45 BU									
						SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES									
						Band			Band			Band									
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION								
Olsen Phosphorus	<b>27 ppm</b>	*****				N	<b>44</b>		N	<b>71</b>		N	<b>98</b>								
Potassium	<b>307 ppm</b>	*****				P <sub>2</sub> O <sub>5</sub>	<b>15</b>	<b>Band (Starter)*</b>	P <sub>2</sub> O <sub>5</sub>	<b>15</b>	<b>Band (Starter)*</b>	P <sub>2</sub> O <sub>5</sub>	<b>15</b>	<b>Band (Starter)*</b>							
Chloride	<b>0-6"</b>	<b>12 lb/acre</b>		****				K <sub>2</sub> O	<b>10</b>	<b>Band (Starter)*</b>	K <sub>2</sub> O	<b>10</b>	<b>Band (Starter)*</b>	K <sub>2</sub> O	<b>10</b>	<b>Band (Starter)*</b>					
Sulfur	<b>0-6"</b>	<b>18 lb/acre</b>		*****				Cl	<b>16</b>	<b>Broadcast</b>	Cl	<b>16</b>	<b>Broadcast</b>	Cl	<b>16</b>	<b>Broadcast</b>					
Boron	<b>0.4 ppm</b>	*****				S	<b>7</b>	<b>Band (Trial)</b>	S	<b>7</b>	<b>Band (Trial)</b>	S	<b>7</b>	<b>Band (Trial)</b>							
Zinc	<b>1.19 ppm</b>	*****				B	<b>0</b>		B	<b>0</b>		B	<b>0</b>								
Iron	<b>18.8 ppm</b>	*****				Zn	<b>0</b>		Zn	<b>0</b>		Zn	<b>0</b>								
Manganese	<b>4.0 ppm</b>	*****				Fe	<b>0</b>		Fe	<b>0</b>		Fe	<b>0</b>								
Copper	<b>0.7 ppm</b>	*****				Mn	<b>0</b>		Mn	<b>0</b>		Mn	<b>0</b>								
Magnesium	<b>339 ppm</b>	*****				Cu	<b>1</b>	<b>Band (Trial)</b>	Cu	<b>1</b>	<b>Band (Trial)</b>	Cu	<b>1</b>	<b>Band (Trial)</b>							
Calcium	<b>1960 ppm</b>	*****				Mg	<b>0</b>		Mg	<b>0</b>		Mg	<b>0</b>								
Sodium	<b>29 ppm</b>	****				Lime			Lime			Lime									
Org.Matter	<b>1.4 %</b>	*****				Soil pH			Buffer pH			Cation Exchange Capacity			% Base Saturation (Typical Range)						
Carbonate(CCE)	<b>0.1 %</b>	*				0-6" <b>7.6</b>						<b>13.5 meq</b>			% Ca		% Mg		% K	% Na	% H
Sol. Salts	<b>0-6"</b>	<b>0.23 mmho/cm</b>		*****										(65-75)		(15-20)		(1-7)	(0-5)	(0-5)	
														<b>72.4</b>		<b>20.9</b>		<b>5.8</b>	<b>0.9</b>	<b>0.0</b>	

General Comments: Medium-textured (CEC: 11-30 meq)

Crop 1: 35 lb potassium chloride (0-0-60-50Cl) = 16 lb chloride. Soil nitrate for 0-24 inch depth is estimated 24 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 16 K2O = 9 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 2: 35 lb potassium chloride (0-0-60-50Cl) = 16 lb chloride. Soil nitrate for 0-24 inch depth is estimated 24 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 22 K2O = 13 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 3: 35 lb potassium chloride (0-0-60-50Cl) = 16 lb chloride. Soil nitrate for 0-24 inch depth is estimated 24 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 28 K2O = 17 AGVISE Band guideline will build P & K test levels to the medium range over several years.

**RECEIVED**

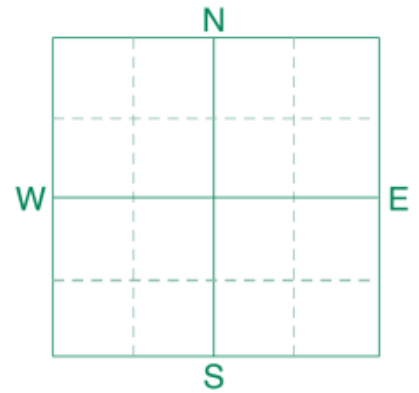
By Theresa Froehlich at 9:06 am, Feb 10, 2025



Soil Analysis by Agvise Laboratories  
 (<http://www.agvise.com>)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **home place 2**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY  
 TWP RANGE  
 SECTION QTR ACRES **0**  
 PREV. CROP **Mustard**



**SUBMITTED FOR:**  
**TEW PLACE FARMS**  
**25210 RD 90**  
**GILDFORD, MT 59525**

**SUBMITTED BY: TE3882**  
**TEW PLACE FARMS**  
**25210 RD 90**  
**GILDFORD, MT 59525**

REF # **21289302** BOX # **4810**  
 LAB # **NW9814**

Date Sampled **03/18/2024**

Date Received **03/20/2024**

Date Reported **03/21/2024**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice									
		VLow	Low	Med	High	Barley-Malting			Wheat-Spring			Barley-Malting									
Nitrate	<b>0-6"</b> <b>12 lb/acre</b>	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL									
						40 BU			35 BU			60 BU									
						SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES									
						Band			Band			Band									
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION								
Olsen Phosphorus	<b>20 ppm</b>	*****				N	<b>38</b>		N	<b>71</b>		N	<b>69</b>								
Potassium	<b>350 ppm</b>	*****				P <sub>2</sub> O <sub>5</sub>	<b>15</b>	<b>Band (Starter)*</b>	P <sub>2</sub> O <sub>5</sub>	<b>15</b>	<b>Band (Starter)*</b>	P <sub>2</sub> O <sub>5</sub>	<b>15</b>	<b>Band (Starter)*</b>							
Chloride	<b>0-6"</b> <b>12 lb/acre</b>	****				K <sub>2</sub> O	<b>10</b>	<b>Band (Starter)*</b>	K <sub>2</sub> O	<b>10</b>	<b>Band (Starter)*</b>	K <sub>2</sub> O	<b>10</b>	<b>Band (Starter)*</b>							
Sulfur	<b>0-6"</b> <b>18 lb/acre</b>	*****				Cl	<b>16</b>	<b>Broadcast</b>	Cl	<b>16</b>	<b>Broadcast</b>	Cl	<b>16</b>	<b>Broadcast</b>							
Boron	<b>0.5 ppm</b>	*****				S	<b>7</b>	<b>Band (Trial)</b>	S	<b>7</b>	<b>Band (Trial)</b>	S	<b>7</b>	<b>Band (Trial)</b>							
Zinc	<b>1.47 ppm</b>	*****				B	<b>0</b>		B	<b>0</b>		B	<b>0</b>								
Iron	<b>17.2 ppm</b>	*****				Zn	<b>0</b>		Zn	<b>0</b>		Zn	<b>0</b>								
Manganese	<b>2.9 ppm</b>	*****				Fe	<b>0</b>		Fe	<b>0</b>		Fe	<b>0</b>								
Copper	<b>0.59 ppm</b>	*****				Mn	<b>0</b>		Mn	<b>0</b>		Mn	<b>0</b>								
Magnesium	<b>313 ppm</b>	*****				Cu	<b>1</b>	<b>Band (Trial)</b>	Cu	<b>1</b>	<b>Band (Trial)</b>	Cu	<b>1</b>	<b>Band (Trial)</b>							
Calcium	<b>3637 ppm</b>	*****				Mg	<b>0</b>		Mg	<b>0</b>		Mg	<b>0</b>								
Sodium	<b>24 ppm</b>	****				Lime			Lime			Lime									
Org.Matter	<b>1.4 %</b>	*****				Soil pH			Buffer pH			Cation Exchange Capacity			% Base Saturation (Typical Range)						
Carbonate(CCE)	<b>0.5 %</b>	***				0-6" <b>7.7</b>						<b>21.8 meq</b>			% Ca		% Mg		% K	% Na	% H
Sol. Salts	<b>0-6"</b> <b>0.24 mmho/cm</b>	*****										(65-75)		(15-20)		(1-7)	(0-5)	(0-5)			

General Comments: Soil texture is not estimated on high pH soils.

Crop 1: 35 lb potassium chloride (0-0-60-50Cl) = 16 lb chloride. Soil nitrate for 0-24 inch depth is estimated 24 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 19 K2O = 20 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 2: 35 lb potassium chloride (0-0-60-50Cl) = 16 lb chloride. Soil nitrate for 0-24 inch depth is estimated 24 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 22 K2O = 13 AGVISE Band guideline will build P & K test levels to the medium range over several years.

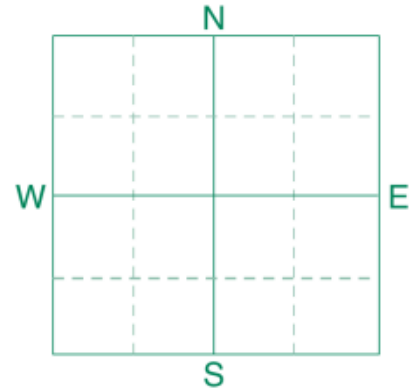
Crop 3: 35 lb potassium chloride (0-0-60-50Cl) = 16 lb chloride. Soil nitrate for 0-24 inch depth is estimated 24 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 28 K2O = 30 AGVISE Band guideline will build P & K test levels to the medium range over several years.



Soil Analysis by Agvise Laboratories  
 (<http://www.agvise.com>)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **bin site 2**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY  
 TWP RANGE  
 SECTION QTR ACRES **0**  
 PREV. CROP **Wheat-Winter**



SUBMITTED FOR:  
**TEW PLACE FARMS**  
**25210 RD 90**  
**GILDFORD, MT 59525**

SUBMITTED BY: **TE3882**  
**TEW PLACE FARMS**  
**25210 RD 90**  
**GILDFORD, MT 59525**

REF # **21289305** BOX # **4895**  
 LAB # **NW9817**

Date Sampled **03/18/2024**

Date Received **03/20/2024**

Date Reported **03/21/2024**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice									
		VLow	Low	Med	High	Barley-Malting			Barley-Malting			Barley-Malting									
Nitrate	<b>0-6"</b> <b>10 lb/acre</b>	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL									
						40 BU			50 BU			60 BU									
						SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES									
						Band			Band			Band									
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION								
Olsen Phosphorus	<b>19 ppm</b>	*****				N	<b>42</b>		N	<b>58</b>		N	<b>73</b>								
Potassium	<b>383 ppm</b>	*****				P <sub>2</sub> O <sub>5</sub>	<b>15</b>	<b>Band (Starter)*</b>	P <sub>2</sub> O <sub>5</sub>	<b>15</b>	<b>Band (Starter)*</b>	P <sub>2</sub> O <sub>5</sub>	<b>15</b>	<b>Band (Starter)*</b>							
Chloride	<b>0-6"</b> <b>4 lb/acre</b>	*				K <sub>2</sub> O	<b>10</b>	<b>Band (Starter)*</b>	K <sub>2</sub> O	<b>10</b>	<b>Band (Starter)*</b>	K <sub>2</sub> O	<b>10</b>	<b>Band (Starter)*</b>							
Sulfur	<b>0-6"</b> <b>16 lb/acre</b>	*****				Cl	<b>32</b>	<b>Broadcast</b>	Cl	<b>32</b>	<b>Broadcast</b>	Cl	<b>32</b>	<b>Broadcast</b>							
Boron	<b>0.6 ppm</b>	*****				S	<b>7</b>	<b>Band (Trial)</b>	S	<b>7</b>	<b>Band (Trial)</b>	S	<b>7</b>	<b>Band (Trial)</b>							
Zinc	<b>0.86 ppm</b>	*****				B	<b>0</b>		B	<b>0</b>		B	<b>0</b>								
Iron	<b>13.6 ppm</b>	*****				Zn	<b>0</b>		Zn	<b>0</b>		Zn	<b>0</b>								
Manganese	<b>2.3 ppm</b>	*****				Fe	<b>0</b>		Fe	<b>0</b>		Fe	<b>0</b>								
Copper	<b>0.63 ppm</b>	*****				Mn	<b>0</b>		Mn	<b>0</b>		Mn	<b>0</b>								
Magnesium	<b>312 ppm</b>	*****				Cu	<b>1</b>	<b>Band (Trial)</b>	Cu	<b>1</b>	<b>Band (Trial)</b>	Cu	<b>1</b>	<b>Band (Trial)</b>							
Calcium	<b>3334 ppm</b>	*****				Mg	<b>0</b>		Mg	<b>0</b>		Mg	<b>0</b>								
Sodium	<b>27 ppm</b>	****				Lime			Lime			Lime									
Org.Matter	<b>1.4 %</b>	*****				Soil pH			Buffer pH			Cation Exchange Capacity			% Base Saturation (Typical Range)						
Carbonate(CCE)	<b>0.6 %</b>	****				0-6" <b>7.7</b>						<b>20.4 meq</b>			% Ca		% Mg		% K	% Na	% H
Sol. Salts	<b>0-6"</b> <b>0.28 mmho/cm</b>	*****										(65-75) <b>81.8</b>		(15-20) <b>12.8</b>		(1-7) <b>4.8</b>	(0-5) <b>0.6</b>	(0-5) <b>0.0</b>			

General Comments: Soil texture is not estimated on high pH soils.

Crop 1: 70 lb potassium chloride (0-0-60-50Cl) = 32 lb chloride. Soil nitrate for 0-24 inch depth is estimated 20 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 19 K2O = 20 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 2: 70 lb potassium chloride (0-0-60-50Cl) = 32 lb chloride. Soil nitrate for 0-24 inch depth is estimated 20 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 24 K2O = 25 AGVISE Band guideline will build P & K test levels to the medium range over several years.

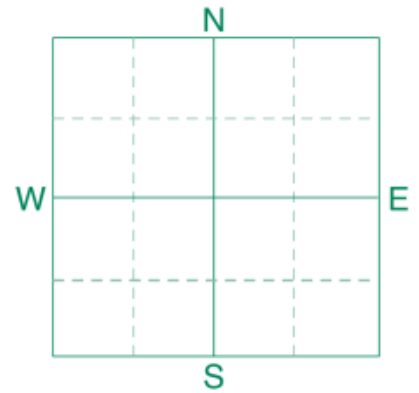
Crop 3: 70 lb potassium chloride (0-0-60-50Cl) = 32 lb chloride. Soil nitrate for 0-24 inch depth is estimated 20 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 28 K2O = 30 AGVISE Band guideline will build P & K test levels to the medium range over several years.



Soil Analysis by Agvise Laboratories  
 (<http://www.agvise.com>)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **middle section 4**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY  
 TWP RANGE  
 SECTION QTR ACRES **0**  
 PREV. CROP **Lentils**



SUBMITTED FOR:  
**TEW PLACE FARMS**  
**25210 RD 90**  
**GILDFORD, MT 59525**

SUBMITTED BY: **TE3882**  
**TEW PLACE FARMS**  
**25210 RD 90**  
**GILDFORD, MT 59525**

REF # **21289310** BOX # **4895**  
 LAB # **NW9810**

Date Sampled **03/18/2024**

Date Received **03/20/2024**

Date Reported **03/21/2024**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High								
Nitrate	<b>0-6"</b> <b>10 lb/acre</b>	*****				Mustard		Mustard		Mustard			
						YIELD GOAL		YIELD GOAL		YIELD GOAL			
						500 LBS		1000 LBS		1500 LBS			
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
						Band		Band		Band			
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Olsen	<b>25 ppm</b>	*****				N	<b>20</b>	N	<b>40</b>	N	<b>75</b>		
Phosphorus													
Potassium	<b>383 ppm</b>	*****				P <sub>2</sub> O <sub>5</sub>	<b>10</b> <b>Band (Starter)*</b>	P <sub>2</sub> O <sub>5</sub>	<b>10</b> <b>Band (Starter)*</b>	P <sub>2</sub> O <sub>5</sub>	<b>10</b> <b>Band (Starter)*</b>		
Chloride	<b>0-6"</b> <b>3 lb/acre</b>	*				K <sub>2</sub> O	<b>0</b>	K <sub>2</sub> O	<b>0</b>	K <sub>2</sub> O	<b>0</b>		
Sulfur	<b>0-6"</b> <b>10 lb/acre</b>	*****				Cl	<b>Not Available</b>	Cl	<b>Not Available</b>	Cl	<b>Not Available</b>		
Boron	<b>0.3 ppm</b>	*****				S	<b>9</b> <b>Band (Trial)</b>	S	<b>9</b> <b>Band (Trial)</b>	S	<b>9</b> <b>Band (Trial)</b>		
Zinc	<b>0.48 ppm</b>	*****				B	<b>1</b> <b>Broadcast</b>	B	<b>1</b> <b>Broadcast</b>	B	<b>1</b> <b>Broadcast</b>		
Iron	<b>38.9 ppm</b>	*****				Zn	<b>1</b> <b>Band</b>	Zn	<b>1</b> <b>Band</b>	Zn	<b>1</b> <b>Band</b>		
Manganese	<b>7.2 ppm</b>	*****				Fe	<b>0</b>	Fe	<b>0</b>	Fe	<b>0</b>		
Copper	<b>0.72 ppm</b>	*****				Mn	<b>0</b>	Mn	<b>0</b>	Mn	<b>0</b>		
Magnesium	<b>255 ppm</b>	*****				Cu	<b>0</b>	Cu	<b>0</b>	Cu	<b>0</b>		
Calcium	<b>1511 ppm</b>	*****				Mg	<b>0</b>	Mg	<b>0</b>	Mg	<b>0</b>		
Sodium	<b>14 ppm</b>	**				Lime	<b>0</b>	Lime	<b>0</b>	Lime	<b>0</b>		
Org.Matter	<b>1.4 %</b>	*****											
Carbonate(CCE)	<b>0.2 %</b>	*											
Sol. Salts	<b>0-6"</b> <b>0.19 mmho/cm</b>	****											
						Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
									% Ca	% Mg	% K	% Na	% H
						0-6" <b>6.5</b>		<b>11.6 meq</b>	(65-75) <b>64.9</b>	(15-20) <b>18.3</b>	(1-7) <b>8.4</b>	(0-5) <b>0.5</b>	(0-5) <b>7.9</b>

General Comments: Medium-textured (CEC: 11-30 meq)

Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.

Crop 1: Limited data on crop response to chloride. Soil nitrate for 0-24 inch depth is estimated 20 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 10 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P<sub>2</sub>O<sub>5</sub> = 9 K<sub>2</sub>O = 5 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 2: Limited data on crop response to chloride. Soil nitrate for 0-24 inch depth is estimated 20 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 10 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P<sub>2</sub>O<sub>5</sub> = 18 K<sub>2</sub>O = 9 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 3: Limited data on crop response to chloride. Soil nitrate for 0-24 inch depth is estimated 20 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 10 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P<sub>2</sub>O<sub>5</sub> = 27 K<sub>2</sub>O = 14 AGVISE Band guideline will build P & K test levels to the medium range over several years.

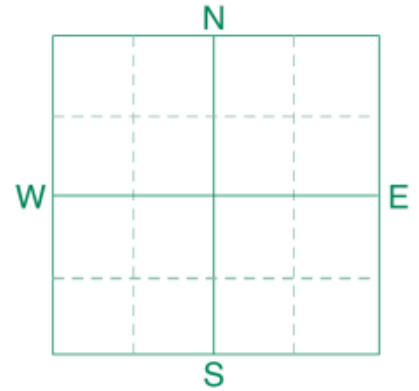




Soil Analysis by Agvise Laboratories  
 (<http://www.agvise.com>)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **middle 3 with manure**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY  
 TWP RANGE  
 SECTION QTR ACRES **0**  
 PREV. CROP **Mustard**



**SUBMITTED FOR:**  
**TEW PLACE FARMS**  
**25210 RD 90**  
**GILDFORD, MT 59525**

**SUBMITTED BY: TE3882**  
**TEW PLACE FARMS**  
**25210 RD 90**  
**GILDFORD, MT 59525**

REF # **21289311** BOX # **4895**  
 LAB # **NW9811**

Date Sampled **03/18/2024**

Date Received **03/20/2024**

Date Reported **03/21/2024**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		VLow	Low	Med	High	Barley-Malting			Barley-Malting			Barley-Malting		
Nitrate	0-6" 12 lb/acre	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL		
						40 BU			50 BU			60 BU		
						SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
						Band			Band			Band		
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION	
						N	38		N	54		N	69	
Phosphorus	Olsen 26 ppm	*****				P <sub>2</sub> O <sub>5</sub>	15	Band (Starter)*	P <sub>2</sub> O <sub>5</sub>	15	Band (Starter)*	P <sub>2</sub> O <sub>5</sub>	15	Band (Starter)*
Potassium	461 ppm	*****				K <sub>2</sub> O	10	Band (Starter)*	K <sub>2</sub> O	10	Band (Starter)*	K <sub>2</sub> O	10	Band (Starter)*
Chloride	0-6" 8 lb/acre	***				Cl	24	Broadcast	Cl	24	Broadcast	Cl	24	Broadcast
						S	7	Band (Trial)	S	7	Band (Trial)	S	7	Band (Trial)
Sulfur	0-6" 18 lb/acre	*****				B	0		B	0		B	0	
Boron	0.8 ppm	*****				Zn	0		Zn	0		Zn	0	
Zinc	1.78 ppm	*****				Fe	0		Fe	0		Fe	0	
Iron	18.1 ppm	*****				Mn	0		Mn	0		Mn	0	
Manganese	6.3 ppm	*****				Cu	0		Cu	0		Cu	0	
Copper	0.89 ppm	*****				Mg	0		Mg	0		Mg	0	
Magnesium	387 ppm	*****				Lime			Lime			Lime		
Calcium	3660 ppm	*****				Soil pH Buffer pH Cation Exchange Capacity			% Base Saturation (Typical Range)					
Sodium	38 ppm	*****							% Ca	% Mg	% K	% Na	% H	
Org.Matter	1.6 %	*****				0-6" 7.7		22.9 meq	(65-75) 80.0	(15-20) 14.1	(1-7) 5.2	(0-5) 0.7	(0-5) 0.0	
Carbonate(CCE)	1.3 %	*****												
Sol. Salts	0-6" 0.36 mmho/cm	*****												

General Comments: Soil texture is not estimated on high pH soils.

Crop 1: 52 lb potassium chloride (0-0-60-50Cl) = 24 lb chloride. Soil nitrate for 0-24 inch depth is estimated 24 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 19 K2O = 20 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 2: 52 lb potassium chloride (0-0-60-50Cl) = 24 lb chloride. Soil nitrate for 0-24 inch depth is estimated 24 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 24 K2O = 25 AGVISE Band guideline will build P & K test levels to the medium range over several years.

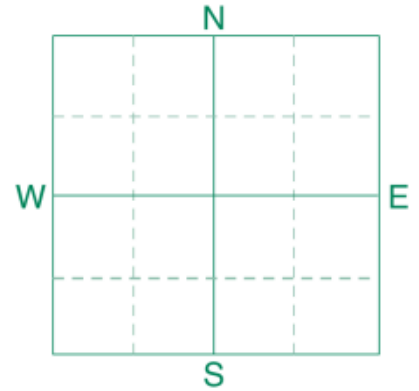
Crop 3: 52 lb potassium chloride (0-0-60-50Cl) = 24 lb chloride. Soil nitrate for 0-24 inch depth is estimated 24 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 28 K2O = 30 AGVISE Band guideline will build P & K test levels to the medium range over several years.



Soil Analysis by Agvise Laboratories  
 (<http://www.agvise.com>)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **sheerer 960**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY  
 TWP RANGE  
 SECTION QTR ACRES **0**  
 PREV. CROP **Mustard**



**SUBMITTED FOR:**  
**TEW PLACE FARMS**  
**25210 RD 90**  
**GILDFORD, MT 59525**

**SUBMITTED BY: TE3882**  
**TEW PLACE FARMS**  
**25210 RD 90**  
**GILDFORD, MT 59525**

REF # **21289313** BOX # **4895**  
 LAB # **NW9805**

Date Sampled **03/18/2024**

Date Received **03/20/2024**

Date Reported **03/21/2024**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice			
		VLow	Low	Med	High	Barley-Malting		Barley-Malting		Barley-Malting		Barley-Malting			
Nitrate	0-6" 11 lb/acre	*****				YIELD GOAL		YIELD GOAL		YIELD GOAL		YIELD GOAL			
						40 BU		50 BU		75 BU					
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES					
						Band		Band		Band					
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Olsen	30 ppm	*****					N	40		N	56		N	94	
Phosphorus							P <sub>2</sub> O <sub>5</sub>	15	Band (Starter)*	P <sub>2</sub> O <sub>5</sub>	15	Band (Starter)*	P <sub>2</sub> O <sub>5</sub>	15	Band (Starter)*
Potassium	370 ppm	*****					K <sub>2</sub> O	10	Band (Starter)*	K <sub>2</sub> O	10	Band (Starter)*	K <sub>2</sub> O	10	Band (Starter)*
Chloride	0-6" 14 lb/acre	*****					Cl	12	Broadcast	Cl	12	Broadcast	Cl	12	Broadcast
Sulfur	0-6" 46 lb/acre	*****					S	0		S	0		S	0	
Boron	0.3 ppm	****					B	1	Broadcast	B	1	Broadcast	B	1	Broadcast
Zinc	0.58 ppm	*****					Zn	0		Zn	0		Zn	0	
Iron	45.6 ppm	*****					Fe	0		Fe	0		Fe	0	
Manganese	14.1 ppm	*****					Mn	0		Mn	0		Mn	0	
Copper	0.82 ppm	*****					Cu	0		Cu	0		Cu	0	
Magnesium	368 ppm	*****					Mg	0		Mg	0		Mg	0	
Calcium	1455 ppm	*****					Lime	0		Lime	0		Lime	0	
Sodium	21 ppm	***													
Org.Matter	1.7 %	*****													
Carbonate(CCE)	0.1 %	*													
Sol. Salts	0-6" 0.19 mmho/cm	****													
						Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)					
						0-6" 6.2		13.4 meq		% Ca	% Mg	% K	% Na	% H	
										(65-75) 54.2	(15-20) 22.9	(1-7) 7.1	(0-5) 0.7	(0-5) 15.2	

**General Comments:** Medium-textured (CEC: 11-30 meq)  
 Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.

**Crop 1:** 26 lb potassium chloride (0-0-60-50Cl) = 12 lb chloride. Soil nitrate for 0-24 inch depth is estimated 22 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 19 K2O = 20 AGVISE Band guideline will build P & K test levels to the medium range over several years.

**Crop 2:** 26 lb potassium chloride (0-0-60-50Cl) = 12 lb chloride. Soil nitrate for 0-24 inch depth is estimated 22 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 24 K2O = 25 AGVISE Band guideline will build P & K test levels to the medium range over several years.

**Crop 3:** 26 lb potassium chloride (0-0-60-50Cl) = 12 lb chloride. Soil nitrate for 0-24 inch depth is estimated 22 lb/acre nitrate-N. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 35 K2O = 38 AGVISE Band guideline will build P & K test levels to the medium range over several years.