



## WATER PROTECTION BUREAU

Agency Use
Permit No.: MTG010282
Date Rec'd 2 · 22 · 24
Amount Rec'd
Check No.
Rec'd By

FORM
NOI-NMP
CAFO

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

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:	MTG010282
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	Grassland Colony
Location (Physical address or Directions)	714 Eden Rd
Nearest City or Town	Great Falls
Zip Code, County	59405 Cascade
Facility Latitude, Longitude	47,3421 - 111.2845
Date facility began operation	1-2014
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 RECEIVED
	FEB 2 2 2024
	DEQ WATER QUALITY DIVISION

Section 2 – Representatives	
2.1 Applicant (Owner/Operator)	
The owner/operator assumes all liability for si	ite discharges and compliance with the terms and conditions of the permit. The fication requirements listed in the Certification Section at this end of this form.
Owner/Operator Formal Name	Grass Land Colony
Mailing Address	714 Eden Rd
City, State, Zip Code	Great Falls, MT 59405
Signatory/Responsible Official	Name Pave white Title Farm Magr
Contact Information	Phone 406-736-5322 Email
2.2 Authorized Representative	
individual(s) or position must be identified. It designation is made in writing [ARM 17.30. Select Appropriate Box:  No authorized representative for this permi	e signed by anyone other than the signatory/responsible official, a duly authorized If one is not designated, than all reports must be signed by the signatory until such 1232(2)].  It is designated at this time (continue to Section 3) epresentative for this permit (provide the information below):
Authorized Representative Information:	
Authorized Representative Nam	le Joe Carleton Title Consultant
Company Name	Dry Fork Aa
Mailing Address	301 Main st.
City, State, Zip Code	Ledner, MT 59456
Contact Information Phon	ne 406-788-0653 Email
Section 3 – Business Description	
3.1 SIC Codes and NAICS Codes	
Provide at least one Standard Industrial Classif code which best reflects the products or service	fication (SIC) code and one North American Industry Classification System (NAICS) es provided by the CAFO.
SIC Code Description (1) 213 Hogs (2) 259 Chicken (3) 212 Beef Cale (4)	NAICS Code Description  (1) //221 Hog  (2) //234 Chicken Layer  (3) 1/2111 Beef Calving  (4)
SIC Code Examples:	NAICS Code Examples:
<ul><li>211 Beef Cattle Feedlots</li><li>212 Beef Cattle, Except Feedlots</li></ul>	112112 Cattle Feedlots
213 Hogs	112111 Beef Cattle Ranching and Farming
214 Sheep and Goats	Hog and Pig Farming  11240 Sheep Farming
241 Dairy Farms	11212 Dairy Cattle and Milk Production
<ul><li>251 Broiler, Fryer and Roaster Chickens</li><li>252 Chicken Eggs</li></ul>	S 11232 Broilers and other Meat-Type Chickens
252 Chicken Eggs 253 Turkeys and Turkey Eggs	11234 Chicken Egg Production
254 Poultry Hatcheries	11233 Turkey Production
259 Poultry and Eggs, not elsewhere cla	ussified (Ducks)  11234 Poultry Hatcheries 112390 Other Poultry Production
272 Horses and other Equines	112390 Other Pounty Production 112920 Horses and other Equine Production

3.2	Facility or Op	eration Description				
	ide a brief desc	cription of the nature of th	e facility (feedlot, stoo	kyard, sale bar	rn, etc.)	
	Combina	ation Hog .	Egg Produ	ction		
3.3 1	Existing or Pe	nding Permits, Certifica	tion, or Approvals			
ΠN	one			□ RCRA_		
D M	IPDES	AFO Discha	198	□ Other		
	SD (Air Emiss			☐ Other		
□ 40	04 Permit (Dre	edge and Fill)				
Secti	on 4 – Outfal	ls				
4.1 I	Receiving Wa	ter				
Creel	ving water/dra	image is unnamed, indica	ite the closest named	drainage it flor	ee) and the name of the rec ws into (i.e., "unnamed tril ust not be left blank, and "	nutary to Class
_	Outfall	Latitude	Longitude		Name of Receiving W	ater
	001	47.399211	-111,259930	Un	named E	Phemeral
		1		dra	inage to Mi	55 our River
				1		
				-		
Canti	on 5 – Charac	A				
_	mpaired Wat					The state of the s
Identi https://phosp	fy whether the //deq.mt.gov/y horus).	e receiving water is impa	tine if the receiving wrients	eck the Clean 'ater is impaire	Water Act Information Cered for nutrients (total nitrog	nter database at gen and/or total
			Continue t	to Page 4		

NOI-NMP-CAFO

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December 2023

57	Amimal	Confinement
J.4	Ammai	Commement

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	400	
Swine 55 lbs. or over	0	2900
Swine 55 lbs. or under	O	37500
Horses	700*	31300
Sheep or Lambs		
Turkeys		
Chicken broilers –includes juveniles		
Chicken layers -includes juveniles	0	45,000
Ducks		13,000
Other Specify:		
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	e gage or a latitude and longitude
C4-4' ID	OR	- 5-50 of a failude and folightude.
Latitude, Longitude 47. 3421	, -111. 2845	
5.4 Containment Structures		
Were the containment structures built after Fel  ☐ Yes. Skip the following 3 questions and ☐ No. Complete the questions and table be	continue to the table below.	
Do the livestock waste control facilities have 1 ☐ Yes ☐ No	0 feet of separation between the pond bo	ottom and any bedrock formations?
Do the waste containment structures have 4 fee	et of separation from the pond bottom to	any ground water?
Do the livestock waste control facilities comply Yes   No	y with the applicable well setbacks?	

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 4,750,000 365 ga Below Ground Storage Tank Roofed Storage Shed Concrete Pad 1500 Impervious Soil Pad Tons Other Specify: 1000 Open Lot Tons

### 5.5 Sage Grouse Habitat

Other Specify:

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

☐ 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) See Photos in FACTS
- I have attached photos and maps (aerial and topographic) that meet the above requirements.

## 6.1 Ensure Adequate Storage Capacity

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

Animal Type	Waste Storage Location	Maximum Number of Animals at Any Time	Number of Days/Year on Site	process w	vastewater uction Liquid
1		Any Time		(tons/yr)	(gallons/yr)
1. Layers Chicken	dry Pad	30,000	365	750	
2. Pullet to Layer	dry Pad	15,000	365	400	
3. Swine over 55	underfloor Pits	2900	365		2 000 00
4. Swine under 55	under floor pits	37500	365		2 100 00
5. Open Lot Beef	open lot	400	60	600	100,000
6.				000	
7.					
8.					
9.					
10.					
11.					<del> </del>

Describe the methods used for estimati	re, litter, and process wastewater production  ng animal manure, litter, and process wastewater pro	oduction: Include all formulas,
	resources used to calculate manure, litter, and wastev	
utilize previous	s years production + af	plication records
Manure handling:		
Identify manure, litter, and process w	astewater handling at the CAFO. Mark all that apply	:
(A) Stored in pens	☐ Direct pipe to liquid impoundment	
☑ Stored on stacking pad	Stored under floor pit	
☐ Composting on site ☐ Other	☐ Separator	
Frequency of manure removal from co		
Annually	☐ As needed ☐ Other	
Yes. Explain how and where		ne production area?
Is dry manure and/or litter stored on a  ☐ No. ☐ Yes. Describe the type and chara	cteristics of this surface Pscked Soil	0.
Waste control structures:	eteristics of this surface 120/160 301	pae
	your facility location. Refer to the map provided	2.8 in/hr
Provide the annual precipitation during mid-October to mid-April)	g critical winter storage period (180 days from	12in
used for clean water diversions and is hr-25-yr storm event and the volume o		5acres
correct units.	clean water diversion area and provide the coverage	in acres or ft <sup>2</sup> . Be sure to circle the
☑ Dirt acres or ft²	(circle correct unit)	
☐ Concrete acres or ft <sup>2</sup>	(circle correct unit)	
Pavedacres		
Under roof acres or ft <sup>2</sup>	(circle correct unit) - check if runoff is not part of cl	ean 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 ft² (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 St	ructures Description	n		(10 Hune 12 Apr.)				
Production area Waste Control Structure (For Corresponding Animal Type Identified in Table Above)	Volume (gal if liquid) (ft³ if dry)	Number of days of storage	Winter storage depth (ft)	The 24hr-25 yr storm event depth (ft)				
1. Hogs All	3,000,000	365	4	4				
2. Chickens All	1200 Ton	365	4	5				
3. Beef lots	1000 Tons	100	.5	1				
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
.2 Mortality Management Check the box that describes how me	ortolitica one diament	-d -f -4 (L) - CAE(						
Burial	Landfill	ed of at this CAFC	J.					
☑ Composted		um o val						
☐ Incineration	☐ Contractor removal ☐ Other							
rovide the location where mortalities  Composted on 3	es are disposed of i	f part of the produ	action area:					
.3 Clean Water Diversion Practic	ces							
check all that apply for how clean w	ater is diverted from	n the production a	rea.					
moon an mar appry for now cream w								
Ditches	☑ Site grading			Gutters and spouts				
	☑ Site grading ☑ Gutters and s	pouts						

6.4 Prohibiting Animals and	Wastes from Direct Contact with State Waters
	imals and wastes are prohibited from direct contact with sate waters.
☑ Fencing □ Wall	☐ Other
6.5 Chemicals and Contamin	ants
pesticides, herbicides, animal di	er contaminants handled on site as part of your CAFO operation, including, but not limited to: ips, disinfectants, etc. Specify the method of disposal and location stored for each nding map has been attached, as required in Section 6, Facility Photos and Maps.
110116	
6.6 Conservation Practices	
production area. Be sure to inc	t, and structural BMPs which will be used to control runnoff of pollutants from the facility's clude them on the map described above in Section 6. If BMPs are not installed, include a each of the following measures. Provide details and specifications to suplement the BMP sheets if necessary.
☑ Ditches	☑ Site grading
■ Earthen berms	☐ Gutters and spouts
<ul><li>Culverts and pipes</li><li>Buffers</li></ul>	☐ Covered Pens ☐ Other
6.7 Sampling and Analysis Pr	ocedures for Manure, Litter, Process Wastewater, and Soil
Representative samples of man nitrogen and total phosphorus. I used to determine rates for man description if you select "other."	ure, litter, and process wastewater must be analyzed a minimum of once per year for total Results should be reported in lbs/ton for solids and lbs/1000 gal for liquids. Results will be ure, litter, and process wastewater. Indicate your method for samping. Be sure to provide a
	as according to CAT & General Fermit Section II.D.
	Continue 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			
<ul> <li>The specific manure/waste handling or nutrient management restrictions associated with each land application field i.e. setbacks</li> </ul>			
- 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			
- All conduits to surface waters  See Field Maps in FACTS			
- 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.			
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 No-Till			
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  Other			
	Continue to Page 12		
	Continue to Page 12		
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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.
- 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.
- 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.

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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 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

very High		Application				
Phosphorus Index Value:						
Section 10 - NMP Guidance						
Land Application Equipment Calibration  Describe the type of equipment used to land apply  Injection flow with dead  Implementation, Operation, Maintenance and Re  The permittee is required to develop protocols for its  livestock waste control facilities, and recordkeeping	cordkeeping	Her Spreader  MP, proper operation and maintenance	10.000			
Have protocols been developed for the operation?	Yes No					
The documents below are maintained: Implementation of the NMP: Facility operation and maintenance: Recordkeeping and reporting Sample collection and analysis Manure transfer  If your answer to any of the above question is no, p	Yes No Orovide explanation:					
Provide date and location of most recent documents  Date: Dec 2023  Location: Faim Mugages of						

#### **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) Devid Waldner		
Title (Type or Print)	Phone Number	
Farm Manager	406-564-6014	
Signature	Date Signed	
Wavil Waldner	1-21-24	
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
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DEQ WATER QUALITY DIVISION

