DEQ
Montana Department of Environmental Quality

WATER PROTECTION BUREAU

Agency Use	
Permit No.: MTG010194	
Date Rec'd 1-27-25	
Amount Rec'd	٠.
Check No.	sl.
Rec'd By FMF	

FORM NOI-NMP CAFO

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

- resubmittal

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 O 1 O 1 9 U	Name of Additional Parks Burn
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	Cornwell Ranch
Location (Physical address or Directions)	T30 N R38E
Nearest City or Town	Glasgow
Zip Code. County	59230 , Valley
Facility Latitude. Longitude	48° 21' 49" N , -104° 45' 55" W
Date facility began operation	1005
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
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	JAIN DIVISION

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

Kanch

Mailing Address

Signatory/Responsible Official

Title President

Contact Information

City, State, Zip Code

Email lee ranches @ nemontre

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

Company Name

Mailing Address

City, State, Zip Code Contact Information

Email audra ortega @ outlook.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)	211	Beef in	nttle Feedlots				
(2)		THE MEAN					
(3)							
(4)							

NAICS Code		Description	
(1) 117	III	Beef Cattle Ranching	
(2)		a Farming	
(3)			
(4)		THE PROPERTY OF THE PARTY OF TH	

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

וואו	e a brief descr	ription of the nature of the	e facility (feedlot, stock)	beef calves raised on our
	ranch	_	119 107 000	Description of the second second
		nding Permits, Certifica	tion, or Approvals	
X No	_	g ,		□ RCRA
⊐мг	PDES			☐ Other
□ PS	D (Air Emiss	sions)		□ Other
		edge and Fill)		
Section	on 4 – Outfal	ils		
4.1 R	Receiving Wa	iter		
Creek	c"). Attach adotable.	dditional sheets if necess	ary for more outfalls. T	rainage it flows into (i.e., "unnamed tributary to Clear his section must not be left blank, and "N/A" is not
	Outfall	Latitude	Longitude	Name of Receiving Water
	001	48.343934	-104.744759	(On as Side - Q)
	<u></u>	48.363217	-104.771740	Spring (reek: Old Channe)
			Aw "Ani"	T. C. DOPP. LA PRINCIPAL A. APRILLADA DE LA PERSONA DE LA
				Hinton Salara VI
				Compared to the Contraction of t
Sant	in E Char		The state of the s	The same that a between the manufacture and a second and the same and
_	ion 5 – Char		Terror excellent	The second of th
5.1	Impaired W	aters 303(d)	paired for nutrients. Ch	eck the Clean Water Act Information Center database at
5.1 Iden	Impaired W stify whether to s://deq.mt.gov	aters 303(d) the receiving water is im		W.S. milk
5.1 Iden https phos	Impaired Watify whether is://deq.mt.govsphorus).	aters 303(d) the receiving water is im	rmine if the receiving v	eck the Clean Water Act Information Center database at
5.1 Iden https:	Impaired Watify whether to sell deg.mt.gov sphorus).	the receiving water is imply/water/resources to dete	rmine if the receiving v utrients I for nutrients	eck the Clean Water Act Information Center database at vater is impaired for nutrients (total nitrogen and/or total
5.1 Iden https:	Impaired Watify whether to sell deg.mt.gov sphorus).	the receiving water is imply water/resources to dete	rmine if the receiving v	eck the Clean Water Act Information Center database at vater is impaired for nutrients (total nitrogen and/or total

Animal type	Number in Open Confinement	Number Housed Under Roof
Mature Dairy Cows		
Veal Calves		
Cattle including dairy Heifers		
Swine 55 lbs. or over		
Swine 55 lbs. or under		
Horses		
Sheep or Lambs		
Turkeys		
Chicken broilers –includes juveniles		
Chicken layers –includes juveniles		
Ducks		
Other Specify: Beef Calves	1800	0
Other Specify:		
ain Gage Location		
fy the nearest gage station or onsite rain in ID Ranch House	OR	ne gage or a latitude and longitude
fy the nearest gage station or onsite rain gion ID Rayun House tude, Longitude 48.3° 64'93" N	OR	ne gage or a latitude and longitude
fy the nearest gage station or onsite rain in ID Ranch House	oruary 2006? continue to the table below.	ne gage or a latitude and longitude
fy the nearest gage station or onsite rain ion ID RANCH HOUSE tude, Longitude 48.3° 64'93" Nontainment Structures the containment structures built after Feb Yes. Skip the following 3 questions and	oruary 2006? continue to the table below. low.	
fy the nearest gage station or onsite rain ion ID RANCH HOUSE tude, Longitude 48.3° U4'93" Nontainment Structures the containment structures built after Feb Yes. Skip the following 3 questions and No. Complete the questions and table be a livestock waste control facilities have 1	oruary 2006? continue to the table below. low. 0 feet of separation between the pond l	pottom and any bedrock formation

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		marketikens	
Storage Pond #1	812,204.88	Gallons	305 days
Storage Pond #2	1,718,798.94	Gallons	305 days
Pens 1-3	947,414.80	Gallons	345 days
Sick Pan	1113, 221.08	Gallons	305 days
Pens 4-8	2,413,180.15	Gallons	315 days
Above Ground Storage Tank #1		A ST HIM RESPON	
Above Ground Storage Tank #2	7 hand of		
Above Ground Storage Tank #3			
Underfloor Pits			
Below Ground Storage Tank	and the first of the same	prile a dear applicable of the re-	
Roofed Storage Shed	A SOURCE OF THE REAL PROPERTY.	ar greenwichgebalen sie is	
Concrete Pad			
Impervious Soil Pad			
Other Specify:			
Other Specify:			

	_	_	
55	Caga	T POMEO	Habitat
J.J	SARC	OI OUSC	HEURIT

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.

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	Number of Days/Year on Site	Annual manure, litter, and process wastewater production	
		Animals at Any Time		Dry (tons/yr)	Liquid (gallons/yr)
1. 5501 bs heef calves	Fredlot, pond 1, pond 2	1800	150	1,299,315	6,037,422.54
2.					
3.			100		11 1712
4.				old Clark	A P
5.					
6.			4.45%		
7.			46.44		
8.					
9.					
10.					
11.					



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 accou						
for soiled bedding mater		100001000 0000 10 0010011	and of mile	in and wast	onator product	
DEQ9, to	ns of bed	lding utilized	during	the	winter	are
kept with	feed re	covas une	timate	of to	ns is	applied
		calculating				
Manure handling:	d ,	1 1000	7 Table 1			Later Vande I
	, and process v	wastewater handling at th			ly:	
Stored in pens		☐ Direct pipe t		ndment		
☐ Stored on stacking		☐ Stored under	floor pit			
☐ Other	site	☐ Separator				
Frequency of manure	removal from	confinement areas:				
☐ Bi-annually		🔀 As needed				
☐ Annually		Other				
Is the manure, litter, o No. Yes. Explain how		ewater temporarily stored	d in any location	other than	the production	area?
Is dry manure and/or No.	litter stored on	an impervious surface?				
☐ Yes. Describe th	e type and cha	racteristics of this surface				
Waste control structure	es:					
Provide the 24-hr-25-in the instructions.	yr storm event	at your facility location.	Refer to the ma	p provided	3.4	in/hr
Provide the annual promid-October to mid-A		ing critical winter storage	period (180 da	ys from	~5	in
used for clean water d	iversions and i	diversions. This is the are is used to calculate volun e of your critical storage p	ne required to he		_ 2\	acres
Check all the surface t	ypes within th	e clean water diversion a	rea and provide	the coverag	ge in acres or ft	² . Be sure to circle the
correct units.						
₩ Dirt	acres or f	1 ² (circle correct unit)				
☐ Concrete	acres or f	² (circle correct unit)				
☐ Paved	acres	17 100				
☐ Under roof	acres or f	R ² (circle correct unit) - c	heck if runoff i	s not part o	f clean water B	MPs
				THE RESERVE OF THE PARTY OF THE		
☐ Gravel	acres or f	R ² (circle correct unit)				
☐ Pasture		ft ² (circle correct unit) ft ² (circle correct unit)				

Methods for estimating animal manure, litter, and process wastewater production

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 Structure (For Corresponding Animal Typ Identified in Table Above)	Volume	Number of days of storage	Winter storage depth (ft)	The 24hr-25 yr storm event depth (ft)
1. Upper Pond #1	812, 204,88	345	4 f+	. 29 f+
2. Lower Pond #2 3.	1.718,798.90	365	4 ft	.29 ft
4.				
5.				
6.				EVILLE TO VILLE
7.				
8.				
9.				
10.			3 45 L	M 1
11.				
6.2 Mortality Management Check the box that describes how Burial Composted Incineration	w mortalities are dispos Landfill Contractor r Other		0.	
Provide the location where morta dead animals are placed spring.				. They are buried every
6.3 Clean Water Diversion Pra	actices			The state of the s
Check all that apply for how clea			area.	
☑ Ditches ☑ Earthen berms ☐ Culverts	☐ Site grading☐ Gutters and☐ Other			

6.4 Prohibiting Animals and Was	tes from Direct Contact with State Waters
Check all that apply for how animals	s and wastes are prohibited from direct contact with sate waters.
□ Wall	□ Inside building ☑ Other
6.5 Chemicals and Contaminants	
pesticides, herbicides, animal dips, contaminant. Ensure a correspondin	ntaminants handled on site as part of your CAFO operation, including, but not limited to: disinfectants, etc. Specify the method of disposal and location stored for each g map has been attached, as required in Section 6, Facility Photos and Maps.
No unemicals are	stored onsite. All animal pour ons ove
contained to the pr	ocessing boun and are disposed of by
Vet Med representate 6.6 Conservation Practices	ive if not completely utilized.
production area. Be sure to include	d structural BMPs which will be used to control runnoff of pollutants from the facility's them on the map described above in Section 6. If BMPs are not installed, include a nof the following measures. Provide details and specifications to suplement the BMP is if necessary. Site grading Gutters and spouts Covered Pens Other
6.7 Sampling and Analysis Proce	dures for Manure, Litter, Process Wastewater, and Soil
Representative samples of manure, nitrogen and total phosphorus. Resu	litter, and process wastewater must be analyzed a minimum of once per year for total alts should be reported in lbs/ton for solids and lbs/1000 gal for liquids. Results will be litter, and process wastewater. Indicate your method for samping. Be sure to provide a
Sample collection will occur a	ccording to CAFO General Permit Section II.D.
Other	to the property of the state of
	Name of Control of Con
	Continue to Page 10
A patter, contracted buildings a led to	Harp comprise will are passed ample from the may is harden from at soil the catch field control or special for catch field configuration of the catchest or special for catchest and the catchest of the catchest or special for catchest or catchest

Section 7 - NMP Land Application	
	applied to land that is owned, rented, or leased by the owner or operator of the facility. vill be managed by the operation, including protocol for transfers of manure, litter, and ion 10.
Yes. Continue below.	
7.1 Land Application Photos and N	1ans
Facilities that land apply must attach pl "None." Individual field boundaries for al A name, number, letter or other r The soil type(s) present and their The location of any downgradier The specific manure/waste hand setbacks Buffers and setbacks around state Any downgradient open tile line None. Not included on ma Any downgradient sinkholes None. Not included on ma Any downgradient agricultural None. Not included on ma Any downgradient sinkholes Any downgradient agricultural None. Not included on ma All conduits to surface waters All temporary, permanent, and	Il planned land application areas means of identifying each individual land application field clocations within the individual land application field(s) nt surface waters dling or nutrient management restrictions associated with each land application field i.e. e surface waters, well heads, etc. intake structures p well heads p structural BMPs used to control runoff of pollutants from the land application area
7.2 Protocols to Land Apply Manu	of the site where manure is to be applied.
Check all temporary, permanent, and	structural BMPs which will be used to control runoff of pollutants from the CAFO's land e, include a schedule for implementation of each of these measures. You may supplement
☐ Infiltration field ☐ Setbacks ☐ Other	☐ Residue Management ☐ Terrance
7.3 Soil Phosphorus Sampling and	Analysis
analyzed for phosphorus content at lea Olsen P test. Results will be reported litter, and process wastewater.	les from the top 6 inches layer of soil for each field where manure will be applied must be ast once every five years. Analyses will be conducted by a qualified laboratory, using the in parts per million (ppm) and will be used in determining application rates for manure, cording to Part II.D of the CAFO General Permit.
	——————————————————————————————————————

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Soil Nitrogen Sampling and Analysis presentative composite soil samples for total nitrogen and nitrate must be collected for	for each field whom manus will be smalled
mposite samples for total nitrogen must be collected from a soil depth of 0 to 6 inchaples for nitrate must be collected from a soil depth of 0 to 6 inchaples for nitrate must be collected from a soil depth of 6 to 24 inches and must be arranged according to method code 4H2al-3 in NRCS Soil Survey Laboratory Method. 42. Results must be reported as mg/kg total nitrogen and pounds per acre.	nes and must be analyzed annually. Compositionallyzed annually. All samples must be
Sample collection will occur according to Part II.D of the CAFO General Репл 1 Other	nit.
- Salet	Bernguk upda Lit
Continue to Page 12	
	And the second s

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. one:	Select
Thingar Approach Expresses rates of application as pounds of nitrough and phosphorus Complete Section 8.1, then	

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.
- 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.

Continue to Page 13

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

Nutrient Budget Worksheet

Fiel	d ider	ntification: Year:	Crop:		
Exp	ected	Crop Yield:			
Pho	sphor	us index results or Phosphorus application	on from soil test:		
		of Land Application:	d) zesten var idet	Walter of	
Who	en wi	ll application occur:	Jesset Janes (PIA)	41-11-11-11-11	
		Nutrient Budget	Nitrogen-based Application	Phosphorus- based Application	Source of information
1		Crop Nutrient Needs, lbs/acre			
2	(-)	Credits from previous legume crops, or soil test lbs/acre			
3	(-)	Residuals from past manure production lbs/acre-only if no new soil test			richer Sallara
4	(-)	Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre			
5	(-)	Nutrients supplied in irrigation water, lbs/acre		عاد باد د در داد	
6		= Additional Nutrients Needed, lbs/acre		Barlwall g	
		。 1000年, 1000年 10000年 10000年 10000年 10000年 10000年 10000年 10000000000			
7		Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1000 gal (from manure test)			
8	(×)	Nutrient Availability factor, for Phosphorus based application use 1.0		department for some	
9		= Available Nutrients in Manure, lbs/ton or lbs/1000 gal		The Company of the Co	entrol entrol
			建筑建筑		Late of the
10		Additional Nutrients needed, lbs/acre (calculated above)			
11	(÷)	Available Nutrients in Manure, lbs/ton or lbs/1000 gal (calculated above)			A STATE OF THE PARTY OF THE PAR
12	4.90	= Manure Application Rate, tons/acre or 1000 gal/acre	off-to-d published		and the branch all

End of Linear Approach. Continue to Section 9

8.2 Narrative Approach

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

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

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:

- X 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:	9	ppm

End of Method A. Continue to Section 10

9.2 Method B - Phosphorus Index

Complete a phosphorus Index according to the crop grown on each field. Complete the Phosphorus Index Worksheet below to calculate phosphorus index. For information on filling out specific sections of this table, please refer to the method as described in NRCS Agronomy Technical Note MT-77.

Appendix A: Phosphorus Index Worksheet (Complete for each field and crop)

Field:		Crop: Year:						
Field Category	None (0)	Low (1)	Medium (2)	High (4)	Very High (8)	Risk Value (0,1,2,4,8)	Weight Factor	Weight Risk
Factor						(0)		
Soil Erosion	NA	<5 tons/as/yr	5-10 ton/ac/yr	10-15 tons/ac/yr	QA> 10 for erodible soils		X 1.5	
Furrow Irrigation Erosion	N/A	Tail water recovery, QS>6 very erodible soils, or QS>10 other soils	QS> for erosion resistant soil	QS> for erodible soils	QA>6 for very erodible soils		X 1.5	
Sprinkler Irrigation Erosion	All fields 0- 3% slope, all sandy fields or field evaluation indicates little or no runoff large spray on silts 3-8%	on silty soils 3- 15% slopes, large spray on silty soils 8-	Medium spray on clay soils 3- 8% slopes, large spray on clay soils >15% slope, medium spray on silt soil >15% slope	slope, low spray on clay soil 3-8%	Low spray on clay soils >8% slopes		X 1.5	awi i
Runoff Class	Negligible	Very Low or Low	Medium	High	Very High		X 0.5	
Olson Soil Test P		<20 ppm	20-40 ppm	40-80 ppm	>80 ppm		X 0.5	a lake
Commercial P Fertllizer Application Method	None Applied	Placed with Planter or injection deeper than 2 inches	Incorporated <3 months prior to planting or surface applied during growing season	Incorporated >3 months before crop or surface applied <3 months before crop emerges	Surface applied to pasture or >3 months before crop emerges		X 1.0	
Commercial P Fertilizer Application Rate	None Applied	<30 lbs/ac P205	31-90 lbs/ac P205	91-150 lbs/ac P205	>150 lbs/ac P205	ALT:	X 1.0	
Organic P Source Application Method	None Applied	Injected deeper than 2 inches	Incorporated <3 months prior to planting or surface applied during growing season	Incorporated >3 months before crop or surface applied <3 months before crop.	Surface applied to pasture or >3 months before crop emerges		X 1.0	
Organic P Source Application Rate	None Applied	<30 lbs/ac P205	31-90 lbs/ac P205	91-150 lbs/ac P205	>150 lbs/ac P205	151	X 1.0	
Distance to Concentrate d Surface Water Flow	>1,000 feet	200-1,000 feet, or functioning grass waterways in concentrated surface water	100-200 feet	<100 feet	O feet or application are directly into concentrate d surface water flow areas.		X 1.0	

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 Needss
Medium	Nitrogen Næds
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:
Implementation, Operation, Maintenance and Re. The permittee is required to develop protocols for i livestock waste control facilities, and recordkeepin	mplementation of the NMP, proper operation and maintenance of the
Have protocols been developed for the operation?	☐ Yes ☐ No
The documents below are maintained: Implementation of the NMP: Facility operation and maintenance: Recordkeeping and reporting Sample collection and analysis Manure transfer	☑ Yes □ No □ Yes ☑ No □ Yes
No manure is transfer property.	
Provide date and location of most recent documents Date: 114 24 Location: Convert Power Defice	

MTG010196

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

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)

Lee Cornwell

Title (Type or Print)

Phone Number

406-263-5222

President

Date Signed

Signature

1/23/2025

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

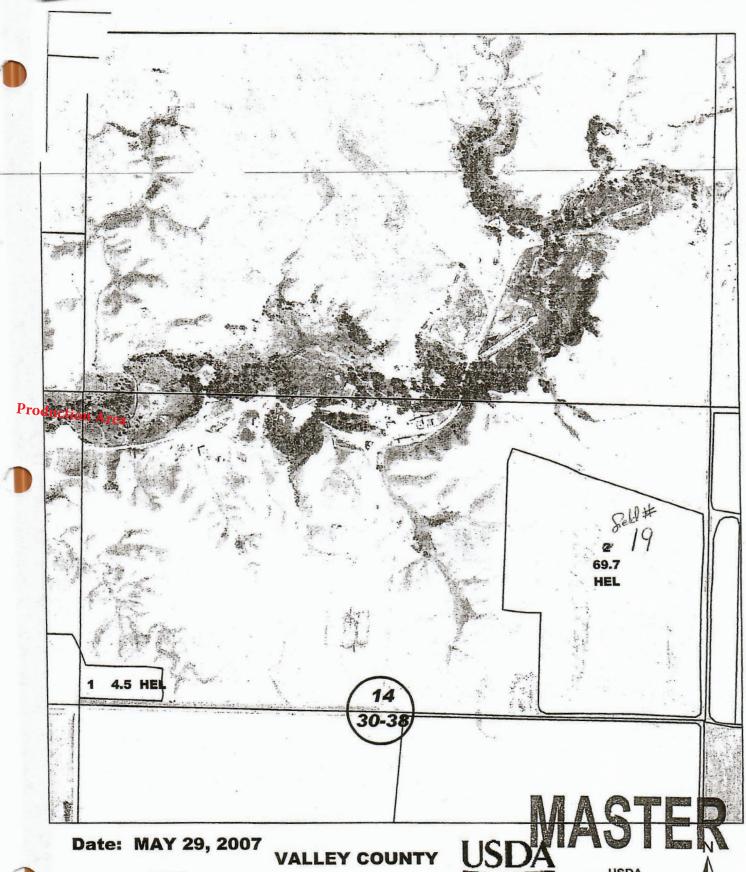
Return this NOI-NMP-CAFO Form and the applicable fee payment to:

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

Cornwell Ranch Permit Authorization #MTGDID196

Production Area



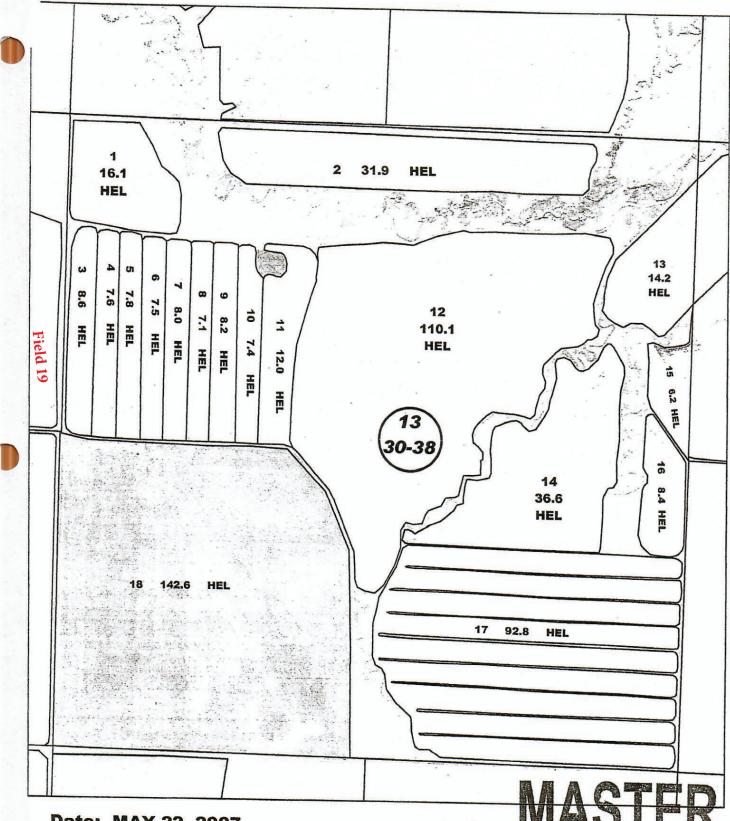


Farm: 4291 Tract: 11012

Twnshp Range



This map is for USDA-FSA Program administration only. There is no guarantee or representation as to the accuracy, currency, suitability or reliability for any other purpose. The user accepts the data "As Is" and assumes all risks associated with its use.



Date: MAY 22, 2007

VALLEY COUNTY

Farm: 4291

Tract: 6816

Sec 13 Twnshp 30 Range 38



USDA Farm Service Agency

This map is for USDA-FSA Program administration only. There is no guarantee or representation as to the accuracy, currency, suitability or reliability for any other purpose. The user accepts the data "As Is" and assumes all risks associated with its use.

LOC

Customer(s): CORNWELL RANCH CO INC

Legal Description: T30N R38E







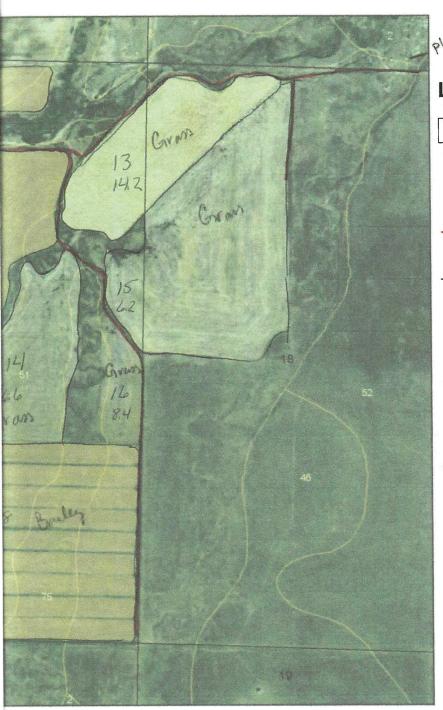
TION MAP

Date: 01/26/2009

Field Office: GLASGOW SERVICE CENTER

Assisted by: Shanna L. Huckins, USDA-NRCS

State and County: MT, VALLEY



4,000

3,000

5,000

Feet

plugged

Legend

section lines soils boundaries

- Dike

- Field Boundry

* Sail Key Handwritten & a Hached

- 1 Absher Useda Complex 1 to 5 % Slope
- 8- Elloam gravelly clay 2to 9% Slope
- 42- Nishan Clay loam 6 to 1 % Shope
- 46- Phillips Loam 0-4 % Slopes
- 51- Reduale loan 0 to 3 % Slopes
- leo Sunbinst clay loan 15 to leo 7. stopes
- 69 Thoeny Phillips Complex 1 to 5% Slopes
- 75 Ustic Torrithurests gently sloping

Fields Available for Land Application

Field ID		Total Acres
	1	16.1
	2	31.9
3 through 11		74.2
	12	110.1
	13	14.2
	14	36.6
	15	6.2
	16	8.4
	17	92.8
	18	142.6
	19	69.7

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/	Max P ₂ O ₅ Derived from all sources
3 thru 11	2023	grass	9	Nitrogen Needs of Crop	25 lbs N/acre	40
5	2017	barley	17.5	Nitrogen Needs of Crop	96 lbs N/acre	10
19	2019	barley	2	Nitrogen Needs of Crop	96 lbs N/acre	0
14	2019	barley	3	Nitrogen Needs of Crop	96 lbs N/acre	0

Alternative Crops

Field	Potential Alternative	Yield Goal	N rec.	P ₂ O ₅ rec.
rieiu	Crop(s)	(unit/acres)	(lbs/	acre)
	grass	4 Ton	100	28
17	barley	50 bushels	78	28
	millet/Sorgum	1800 lbs	63	25
	grass	4 Ton	100	28
12	barley	50 bushels	78	28
	millet/Sorgum	1800 lbs	63	25
	grass	4 Ton	100	28
14	barley	50 bushels	78	28
	millet/Sorgum	1800 lbs	63	25
1	grass	4 Ton	100	28
3 thru 11	grass	4 Ton	100	28
2	grass	4 Ton	100	28
13 thru 16	grass	4 Ton	100	28
18	grass	4 Ton	100	28
19	grass	4 Ton	100	28
		_	_	_

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.

During the last 5 years we have been piling the manure in the pens int the spring to increase break down. Late summer we have be hauling the manure from the pens to our land application location just east of the production area. Due to lack of labor and budget we have been storing the manure in that location that has dikes, abandonded ditches, and established grass that prevents any runoff from entering an unnamed tributaries or water ways. During this time we have also been stirring and repiling the mounds of manure to keep encouraging composting. This is to also encourage a decrease in the levels of N and p2O5 in the manure and optimized the amount of mineralized Nitrogen. We collect soil test prior to spreading, due to the fact we havent been spreading the last several years our soil tests are not as regular as they need to be.

When we do land apply our manure there will be a sample that has been collected conducting the Olsen P test to know Nitrogen and Phosphorus levels prior to spreading. Using the soil test results and the manure test we will be able to figure how many tons need to be applied per acre to ensure levels of both are not exceeded. We can then use this information to figure the rate at which we will need to operate our manure spreader to apply the accurate amount of lbs/acre. We apply our manure in late summer or fall to ensure that there are not significant rainfalls. We dont transfer or spread our liquid or slury produced by the CAFO, it is stored in the pens or drains to the evaporation ponds to naturally evaporate. This is in an effort to reduce violotization of Nitrogen.

With the drought and the infestation of grasshoppers we have not had any recordable yeilds to our barley crops. With this occuring we have decided to take several of our fields and replant them to grass. It is not inteded to be haved but for spring and fall grazing, if yields are good enough it may be haved. We will be collecting a soil sample from each field in the spring to ensure we start out on the right foot. In changing our crop its important to understand where we are starting with our soils and manure. We are unable to figure the Max nitrogen or max phosphorus as this time as we do not have a current soil sample for all fields, no crops, previous manure spreading, shes naked.

23-322-0816

COMPLETED DATE

Nov 21, 2023

RECEIVED DATE

Nov 18, 2023



PAGE 1/2

Nov 21, 2023

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36227

AGRIAN EMAIL ACCOUNT

13611 B STREET OMAHA NE 68144

AG PARTNERS LLC COURTNEY ANDERSON 1000 RAILROAD ALLEY GLASGOW MT 59230 IDENTIFICATION
CORNWELL RANCH
HOME
SOIL SAMPLE
87Y5-77JL

SOIL ANALYSIS REPORT

						NEUTI	RAL AMMONIUM AC	ETATE (EXCHANGEA)	ILE)			IN	FO SHEET	: 1646236			
LAB	SAMPLE	ORGANIC	P	HOSPHORU!	S	POTASSIUM	MAGNESIUM	CALCIUM	SODIUM	рΗ		CATION	PERCEN	T BASE SA	TURATION	(COMPUTE	D)
NUMBER	IDENTIFICATION	MATTER LO. L	P. (WEAK BRAY)	P, (STRONG BRAY)	OLSEN BICARBONATE	K	Mg	Ca	Na			CAPACITY CEC.	% K	% Mg	% Ca	% H	96 Na
426		percent RATE	ppm RATE	ppm RATE	ppm RATE	ppm RATE	ppm RATE	ppm RATE	ppm RATE	1:1		meq/100g					
00930	3	2.4 L	52 vH	80 vh		460 VH	942 v H	2426 м	78	6.7		21.5	5.5	36.5	56.4	0.0	1.6
00931	3	1.6 L	7 VL	44 н	9 ι	204 м	1074 vh	4067 м	179 н	8.1		30.6	1.7	29.2	66.6	0.0	2.5
		- 18					75				H						
						44											

LAB		NITRATE-N (FIA)									SULFUR				MANGANESE		IRON		COPPER		BORG	N	DCES	SOLU		
NUMBER	SURFACE			SUBSOIL 1			SUBSOIL:	SUBSORL2 S Zn Mn Total ICAP DTPA DTPA			Fe DTPA		Cu DTPA		SORB, DTPA		RATE	SALTS								
426	ppm	Ibs/A	depth (In)	Opm	Bs/A	depth	ppm	lbs/A	depth (in)	lbs/A	ppm	RATE	ppm	RATE	ppm	RATE	ppm	RATE	ppm	RATE	ppm	RATE		mmhos/ cm		
00930	24	43	0-6							43	10	L	0.8	L	5	L	27	VH	1.4	Н	1.2	M	L	0.6	L	Γ
00931	3	16	6-24							16	156	VH	0.4	VL	1	VL	13	М	1.2	М	2.6	VH	L	1.2	M	
			-118																							
	- 1																									

REV.10/17

23-322-0816
COMPLETED DATE
Nov 21, 2023
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67670

Nov 18, 2023



PAGE 2/2

Nov 21, 2023

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AGRIAN EMAIL ACCOUNT

13611 B STREET OMAHA NE 68144

AG PARTNERS LLC COURTNEY ANDERSON 1000 RAILROAD ALLEY GLASGOW MT 59230 IDENTIFICATION
CORNWELL RANCH
HOME
SOIL SAMPLE
87Y5-77JL

SOIL FERTILITY RECOMMENDATIONS (POUNDS PER ACRE)

YOUR	INTENDED	YIELD	PREVIOUS	SOIL AMENDIMENTS				N	P ₂ O ₅	K,O	Mg	S	Zn	Mn	Fe	Cu	В
SAMPLE NUMBER (LAB NUMBER)	CROP	GOAL	CROP	LIME LBS/A OF	LIMETON		ELEMENTAL SULFUR LBS/A	NITROGEN	PHOSPHATE	POTASH	MAGNE- SIUM	SULFUR	ZINC	MANGA- NESE	IRON	COPPER	BORON
	WHEAT SPRING -bu WHEAT SPRING -bu WHEAT SPRING -bu	30.0	UNKNOWN UNKNOWN UNKNOWN					20 45	 	-	-	5 7	0.9 1.4 1.9	1.2 1.6	-		
	10000							000		y N							
																1433	
					(111)												
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P.O. BOX 510, NORTHWOOD, ND 58267 Northwood: (701) 587-6010 Benson: (320) 843-4109

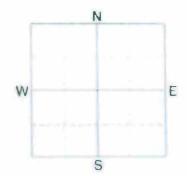
MANURE REPORT

SAMPLE RANCH FEEDLOT
TYPE Solid Manure

SOURCE Beef

STORAGE

LAB NUM NW1368



SUBMITTED FOR:

CORNWELL RANCH 169 CORNWELL RD

GLASGOW, MT

59230

SUBMITTED BY: CE3916

AG PARTNERS LLC-GLASGOW 1015 RAILWAY VALLEY

PO BOX 427

GLASGOW, MT

59230 DRY M

MOISTURE 21

DRY MATTER 79

Date Sampled

Date Received 09/14/23

Date Reported 11/16/2023

	Dry Basis	As Received	lbs/ton
Total Nitrogen (N):		0.77 %	15.0
Ammonium Nitrogen:			
Nitrate Nitrogen:			
Inorganic Nitrogen:			
Organic Nitrogen:			
Phosphate (P2O5):	0.59 %	0.47 %	9.4
Potash (K2O):	1.9 %	1.5 %	30
Sodium:	0.48 %	0.38 %	7.6
Calcium:	1,6 %	1.3 %	26
Magnesium:	0.72 %	0.57 %	11.0
Zinc:	89 ppm	70 ppm	0.14
Iron:	14556 ppm	11499 ppm	23
Manganese:	491 ppm	388 ppm	0.78
Copper:	22 ppm	17.0 ppm	0.034
Sulfur:	0.35 %	0.28 %	5.6
Chloride:			
pH:			
Salts:			
Total Carbon:			
Volatile Solids:			
Bulk Density:	A STATE OF THE STA		
Percent Ash:	THE PUBLISHED		