### SITE ASSESSMENT

## For Large Livestock Operation Proposals (300 Animal Units or more)

## 1.0 Purpose

The set up, or expansion, of a livestock operation that has 300 Animal Units or more is subject to Part 7 of The Planning Act. This includes consideration as a conditional use by the municipal council or planning district board. It also includes a review by the Technical Review Committee (TRC) appointed by the Minister of Local Government. The Technical Review Committee Regulation requires a site assessment to help the committee do its review and allow people who will be affected by the livestock operation to comment on the proposal.

## 2.0 Assistance

For assistance in completing the Site Assessment Form please refer to the following.

For links to resources, click on the highlighted underlined items.

For additional information on a particular item, please click on the (?) "Learn More" icon.

For definitions, click on the Glossary of Terms.

For help with mapping, contact your <u>Community and Regional Planning Regional Office</u>.

For additional help, contact the Technical Review Coordination Unit.

3.0 Description of Livestock Operation
Operation legal name, if other than the owner's name:
Divorne Farms Ltd.
Operation location (project site): SEB-8-6W
Rural Municipality (RM) of Grey
Legal description: section, township, range or river lot(s)  SE 8-8-6ω
Manitoba Premises Identification Number: MB 1038275
Municipal tax roll number(s): 0154200.000
Show the location of the operation (project site) on a location map. (See <u>Location Map</u> for example).
☑ Location Map attached

4.0 Nature of Project		
☐ New operation		
Expansion of existing of	peration	
reused or expanded, state how	w they will be reused or expand	
Current 200 hd d	ainy to be expanded in the co	to 250 hd.
Existing buildings	intended to be a	onverted to house
replacement sto	cle indoors.	
5.0 Proposed Type and Size State the proposed type and s		nal Units Calculation Table.)
Type of operation	Existing number of	Total Animal Units
(Column B from Animal Units Calculation Table)	animals (Column C from Animal	(Column F from Animal Units Calculation Table)
	Units Calculation Table)	
milking cows	200 current	400 AU Current
	250 proposed	500 AU proposed.
Animal Units Calculation	Table attached	
6.0 Animal Confinement Fa	cilities	
Outdoor Confined Livestoc	k Area	
required for construction and Animal Units or more. Permi	in a way that the environment expansion of confined livestors are required by the Livestor IR 42/98), under <i>The Environment</i>	ck areas for operations with 300 k Manure and Mortalities
Confined Livestock Area:	outdoor seasonal feeding area	feedlot not applicable
Indoor Barn/Animal Housi	ng	
Indoor Animal Housing: 🗹	oarn other (describe)	not applicable

## **Animal Units Calculation Table**

inimal Type	Type of Operation		Proposed Additional Number	Animal Units per Head	Total Animal Units	Annual Confinement Period (Days)
Dairy	Cows - milking cows	200	50	2	500.00	365
	Beef cows including associated livestock			1.25	-	
	Backgrounder			0.5	•	
	Summer pasture / replacement heifers			0.625	-	
Beef	Feeder cattle			0.769	- 1	· · · · · · · · · · · · · · · · · · ·
*****	Sows - farrow to finish (234-254 lbs)			1.25	-	
	Sows - farrow to weanling (up to 11 lbs)			0.25	-	
	Sows - farrow to nursery (51 lbs)			0.313	-	
	Boars (artificial insemination units)			0.2	-	
	Weanlings, Nursery (11-51 lbs)			0.033	-	
Pigs	Growers / Finishers (51-249 lbs)	rowers / Finishers (51-249 lbs) 0.14	0.143	-		
	Pigs Growers / Finishers (51-249 lbs) Broilers			0.005	- 1	
	Roasters			0.01	-	
	Layers			0.0083	-	
	Pullets			0.0033	-	
	Broiler breeder pullets			0.0033	-	
Chickens	Broiler breeder hens			0.01	-	
	Broilers			0.01	-	
	Heavy Toms			0.02	-	
Turkeys	Heavy Hens			0.01	~	
Horses	Mares			1.333	_	
	Ewes			0.2	-	
Sheep	Feeder lambs			0.063	-	
	Type:				-	
Other Livestock	Type:				-	
				Total		
				AUs	500.00	365.0

For all other livestock or operation types please inquire with your

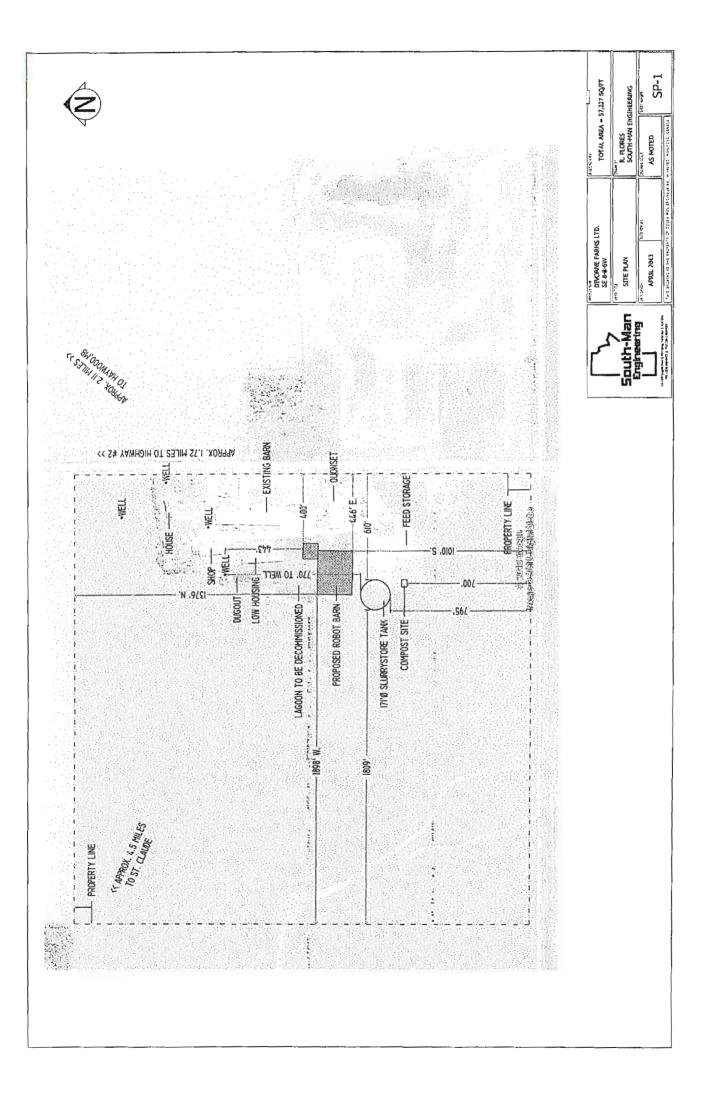
Manitoba Agriculture, Food and Rural Initiatives GO office to determine the animal units per head.

www.gov.mb.ca/agriculture/contact/agoffices.html

A permit under the Livestock Manure and Mortalities Management Regulation is not required for an indoor housing area or barn unless there is a manure storage facility within the building (an under barn storage capable of storing manure for 30 days or more).

Show all existing, proposed buildings and additions to existing buildings on the project site plan. See <u>Project Site Plan example</u> and the Project <u>Site Plan Guide</u> for help creating your site plan.

✓ Project Site Plan attached



7.0 Environmental Farm Planning Environmental farm planning is a voluntary, confidential self-assessment process designed to help farm managers identify the environmental strengths and weaknesses of their operations.
Do you have an Environmental Farm Plan ves no
If so, is it current (completed within past 5 years) ves no
8.0 Water
Project Sites Unsuitable for Development
To protect water quality, the <u>Nutrient Management Regulation</u> (MR 62/2008), under <i>The Water Protection Act</i> , prohibits the set up or expansion of nutrient generating facilities in Nutrient Management Zone 4 (Agriculture Capability Class 6, 7 and unimproved organic

Nutrient Buffer Zone as defined in section 3(3) of the regulation includes areas of land along water bodies such as rivers, lakes, streams and drains.

soils) and Nutrient Buffer Zones. Nutrient generating facilities include barns, confined

The proposed indoor housing area, barn, confined livestock area and/or manure storage facility:

will 🔲

livestock areas and manure storage facilities.

be located within Nutrient Management Zone 4 (Class 6, 7 and unimproved organic soils) or any Nutrient Buffer Zone.

Determine the agriculture capability class(es) of the project site, and its limitations. This information is available from Manitoba Agriculture, Food and Rural Initiatives (MAFRI) at 204-945-3869 in Winnipeg. Alternatively, operations with GIS mapping software can access information through Manitoba Land Initiative (MLI) website. In addition, information from MLI can also be viewed on Google Earth. Both the download for Google Earth and the registration for MLI are free. Click here for instructions under the MLI website.

## Water Source

To be sustainable, a livestock operation must have access to a sufficient quantity and quality of water for livestock.

	6
Water source for operation:  pipeline (public) water co-operative proposed well existing well river lake dugout (dimensions: x x)	
If using an existing well, provide a copy of the water well log and logs for other well the property. Logs can be obtained from Manitoba Conservation and Water Stewards calling (204) 945-7418 in Winnipeg; 1-800-214-6497 toll free.	

LOCATION: SE8-8-6W

Well\_PID: 63604 Owner: P DIVORNE

Driller: HAYWOOD CONCRETE PRODUCTS LTD.

Well Name:

Well Use: PRODUCTION

Water Use: Domestic, Livestock

UTMX: 554971.179 UTMY: 5498836.86

Accuracy XY: UNKNOWN UTMZ:

Accuracy Z:

Date Completed: 1988 Oct 01

WELL LOG

From To Log

(ft.) (ft.)

0 8.0 FINE BROWN SAND

8.0 23.5 FINE SAND, BLUE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material

(ft.) (ft.) Type Dia.(in) Dia.(in) Size(in)

0 23.5 casing 92.00 INSERT CONCRETE

0 23.0 gravel pack

Top of Casing: ft. below ground

**PUMPING TEST** 

Date: 1988 Oct 01

Pumping Rate: 9.0 Imp. gallons/minute Water level before pumping: ft. below ground Pumping level at end of test: ?? ft. below ground

Test duration: 14 hours, minutes Water temperature: ?? degrees F

## Source Water Analysis Reports

Annual livestock source water monitoring analysis reports must be submitted to Manitoba Conservation and Water Stewardship for any operations of 300 Animal Units or more.
If an existing livestock operation of 300 Animal Units or more, have you submitted an annual source water monitoring report for the current calendar year?  yes  no concal submission to milk board
Will livestock have direct access to surface water (not including dugouts)?  yes one
If yes, identify:  Name of the surface water feature:
List any steps that will be taken to prevent direct access of livestock to the water body.
indoor confinement
Water Requirements
Protecting the interests of domestic users and the environment, in addition to existing licensees, is the intended purpose of the water rights licensing scheme.
In order to protect the sustainability of water sources, all operations using more than 25,000 litres (5,499 imperial gallons) per day must possess a Water Rights Licence required by the Water Rights Regulation (MR 126/87) under <i>The Water Rights Act</i> .
For more information on the Water Rights Licensing process, contact the Water Use Licensing Section at (204) 945-3983 in Winnipeg; I-800-214-6497 toll free.
Water Use To calculate the total water use, go to the Water Requirement Calculation Table.
Maximum daily use: 8730
Water Requirement Calculation Table attached
Groundwater (Contamination Risk Protection)
Improper storage and handling of manure or mortalities increases the mide of several in a

Improper storage and handling of manure or mortalities increases the risk of contaminating groundwater. Beneficial management practices (BMP), mitigation measures and requirements for the permit process reduce this risk. Soil testing, manure management planning and proper engineering, along with construction and management of manure storage structures reduce the risk of contaminating groundwater.

## Water Requirement Calculation Table

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Livestock	Number	IG/day per animal in summer	IG/day per animal in summer	IG/day	
Beef/Dairy/Bison					
Feeder/heifer/steer (600 lb.)	70	5	9	630	]
Feeder (900 lb.)		7	12	-	
Feeder (1250 lb.)		10	15	-	1
Cow/calf pair		12	15	-	1
Dry cow	50	10	12	600	7
Milking cow	250	25	30	7,500	7
Bison		8	10	-	Ī
Horses					
Horses		8	11	-	7
Hogs					
Sow (Farrow/wean)		6	.5	-	]
Dry Sow/Boar		4	4		]
Feeder			3		]
Nursery (33 lb.)			2	-	]
Chickens		26 (80) 8 (4 844) 9 (8) 8 (4 844) 9 (8)	1730/ 00 00 00 00 00 00 00 00 00 00 00 00 0		ř
Broilers			035	-	]
Roasters/Pullets			04		1
Layers			)55		]
Breeders		0.	07		
Turkeys		and the state of t			
Turkey Growers			13		]
Turkey Heavies		0.	16	_	77.77.7
Sheep/Goats		Annual Control of the	N/0 95 / 10 / 10 / 10 / 10 / 10 / 10 / 10 / 1		NAMES OF THE STATE
Sheep/Goats			2		r länter didskrivroiber omps
Ewes/Does			3	-	th@Shte.Asses9jiijaa
Lambs/Kids (90 lb.)			.6	-	/ L
		TOTAL			per day
		TOTAL		3,186,450	per year
Notes:					Total Control of the

(Imperial gallons per day - IG/day)

For beef, dairy, bison and horse enterprises: Use summer numbers if appropriate for the operation. Otherwise base projections on winter values. Always use the greater of the two values.

Water Rights Licences are issued to a specific legal land description. Obtaining a Water Rights License or information as to the licensing requirements can be obtained through Manitoba Water Stewardship at (204) 945-3983 or 1-800-282-8069 Ext 3983.

Other consumption values:

Normal household consumption, 40-55 imperial Gallons per day per person (180-250 !/day/person)

Hydrant flow, 10 imperial GPM (45 I/min)

Conversion Factor: (271,470 Imperial Gallons = 1 acrefoet

Check off the mitigation measures used for the existing components of the operation that may pose a risk of contamination. Also check off any measures that may be used with the proposed components for this expansion, if applicable:

	Existing	Proposed
Manure is stored in a storage facility built by permit or registered by Manitoba Conservation and Water Stewardship Storage includes leachate collection Earthen storage has between 400 and 500 days storage Steel/concrete tank has between 250 and 500 days storage Manure storage facility meets required setbacks Field storage (solid manure) locations are changed annually Field storage meets required setbacks All application fields are soil tested annually for nitrate-N and Olsen phosphorus All manure is applied according to a manure management plan Licensed commercial manure applicator is used to apply manure Abandoned wells have been properly sealed		1/40 only
Other: Existing EMS predates permitting and will decommissioned upon construction of new	be steel	tank.

## **Building in Flood Areas**

The <u>Livestock Manure and Mortalities Management Regulation</u> prohibits an operator from putting a manure storage facility within the boundaries of the 100-year flood plain elevation. <u>Manure storage facilities</u> that are constructed with protection for a flood-water level at least 0.6 meters higher than the 100-year flood water level are exempt.

The <u>Designated Flood Area Regulation</u> under *The Water Resources Administration Act* requires a Designated Flood Area Permit before a proposed structure (such as a barn) can be built within a Designated Flood Area.

The flood protection level for structures located within a Designated Flood Area is the site specific design flood level plus freeboard, as provided by the Hydraulic Forecasting Branch of Manitoba Infrastructure and Transportation. Contact the Hydrologic Forecasting Branch at (204) 945-2121 in Winnipeg; 1-800-214-6497 toll free.

The	proposed site			,
	is 🗌	is	not	V

located in a Designated Flood Area: Red River Valley Designated Flood Area or Lower Red River Designated Flood Area

Note: At the time a permit is issued, verification is needed to ensure any proposed structure(s) are located within the 100-year flood plain elevation; or at an elevation set by Manitoba Infrastructure and Transportation.

Watershed Management Planning

Integrated watershed management planning is a co-operative effort by local residents, stakeholders and governments to create a long term plan to manage water and land-based activities for watersheds.

What are the names of the <u>watershed</u> and <u>sub-watershed</u> where the livestock operation and the fields identified for manure application are located?

Name of watershed(s): La Salle River Watershed

Name of sub-watershed(s):

Name of <u>Integrated Watershed Management Plan</u> for the proposed project site, if applicable: <u>La Salle River Integrated Watershed Management Plan</u>.

For more on Integrated Watershed Management Planning, call Watershed Planning and Programs at (204) 945-7408 in Winnipeg; 1-800-214-6497 toll free.

## 9.0 Manure

The <u>Livestock Manure and Mortalities Management Regulation</u> sets requirements for the use, management and storage of livestock manure in agricultural operations, to ensure it is handled in an environmentally sound manner. For more information on this, call Manitoba Conservation and Water Stewardship at (204) 619-2230 in Winnipeg.

Improper storage, handling and/or land application of manure can contaminate water and/or cause unacceptable odours for neighbours. The following is used to assess the manure management system.

## Manure Type

The type of manure generated and used by the operation influences storage, handling and land application options available.

What type(s) of manure will be generated?

solid semi-solid replacement

V liquid Milking cows

## Manure Volume or Weight

Manure production can be estimated using the Manure Production Calculator Table. The sizing of the manure storage is the responsibility of the operator and must be constructed in accordance with the <u>Livestock Manure and Mortalities Management Regulation</u>. Design and construction of a manure storage facility is dependent on the type of structure; earthen manure storage facilities must have between 400 and 500 days capacity, a steel or concrete storage tank must have between 250 and 500 days capacity. This ensures the facility has sufficient capacity eliminating the need for winter application.

What will be the total volume or weight of manure generated annually by the livestock operation? (See <u>Manure Production Calculator Table</u>.)

liquid volume: 376,863 ft <sup>3</sup> solid weight:
Manure Production Calculator Table attached
Manure Storage Type and Capacity  The type of storage system used will affect the capacity requirements for the manure storage facility or field storage area.
What type of manure storage facility will be used by the operation?  under-barn concrete earthen manure storage concrete tank(s)  steel tank(s) field storage molehill
Provide the dimensions of the existing and/or proposed manure storage facilities, if applicable. (See Existing and Proposed Manure Storage Facility Dimensions Table.)
Existing and Proposed Manure Storage Facility Dimensions Table attached
Odour Control Measures (project site) Barns and manure storage facilities can be significant sources of livestock odours. The use of manure storage covers and shelterbelts can reduce this, particularly for neighbours in the vicinity of the operation.
What odour control measures are you planning to use?  Manure storage cover:  yes  no  Type of cover:  naturally occurring floating straw cover.
Shelterbelt planting: yes on existing shelterbelt
Other measures (specify):
Manure Treatment Under The Environment Act, the director must not issue a permit for the modification, expansion, or construction of a manure storage facility accommodating an increase in the number of animal units for pigs, unless the manure is treated using anaerobic digestion or another environmentally sound treatment that is similar to or better than anaerobic digestion, according to Manitoba Conservation and Water Stewardship.
Does your proposal include anaerobic digestion or another environmentally sound treatment for manure?
yes no not applicable

References (C) Table 6, pg 59, FPGs for Dairy	Manure Type	Default Manure	Operation Manure	Production Panda	Number of Animals	Total Manie	
References (C) Table 6, pg 59, FPGs for Daily	Manure Type	Delegan manner			3,000	LOUGH MANUTO	for Semi-Solid and
(C) Table 6, pg 59, FPGs for Dalty 1995	ć	Production	Production	(Cays)	(Capacity)	Volume (ft³) (FxGxH)	Liquid
Table 6, pg 59. FPGs for Dalry 1995	â	(ft <sup>-</sup> /animal/day)	(ft³/animal/day)	2			Gal)
Table 6, pg 59. FPGs for Daily 1995		Ē	(+)				
Table 6, pg 59, FPGs for Dairy 1985	Semi-Solid 2	3.5					0:0
Тав <b>ю 6, рg</b> 59, FPGs for Dalry 1985	Solid	3.4				•	
Table 6, pg 59, FPGs for Dairy 1995	Liquid 5	3.5	4.13	365	250	376,862.50	2,347,853.4
1985	Semi-Solid 5	3.6					0.0
	Solid	3.5					
	Liquid 5	3.6					0.0
	Solid	3.0					
	Liquid	0.5					
	Soild	1.2					
pg 117, FPGs for	Solid	0.73					
Hogs 1998	Solid	0.85					
	Solid	1.1					
	Liquid	2.3					0.0
MAFRI website,	Liquid	0.8					0.0
FPGs for Pigs	Liquid	-					0.0
2007	Liquid	0.1					0.0
	Liquid	0.25					0.0
		Yearly Manure Production	ction			Total Manuro	Total Manure Volume
			Onemittee Hanney	Production Period	Number of Birds 3	Alman mann	for Seml-Solid and
	Default Man (ft³/year/	Default Manure Production (#*/year/bird space)	Production 1	<sup>2</sup> (Days)	(Capacity)	(F/366xGxH)	Liquid Manure (Imp Gal)
		7 23	foods pugued to				
_						1	
_		2.3					
		0.89				•	
		1.16					
Logs for Doullor		33					0.0
2000		.68					
		.71					0.0
		52.					
Table 3, pg 85,		.83					
FPGs for Poultry		.58					
2000		.32					
Table PGS (FPGs (F	3, pg 85, or Poultry 000 3, pg 85, ry Poultry 000						

Sizing of a manure storage facility in accordance with all requirements of the Uvestock Manure and Martalities Management Regulation (M.R. 42/98) is the responsibility of the operator.

## Instructions and feetnetes:

EMTER the manure production estimate for your operation. If no estimate is available, use the default value provided in colum E. References for default daily and yearly manure production are provided in column C.

<sup>&</sup>lt;sup>2</sup> ENTER the number of days worth of manute that will be produced. For earthen manure storage facilities the minimum storage facilities the minimum storage requirement is 400 days. For steel and concrete manure storage facilities the minimum storage requirement is 250

<sup>&</sup>lt;sup>3</sup> ENTER the total number of animals or birds that the operation can hold (e.g. barn or feedfot capacity).

<sup>\*</sup> Milkingcows includes all lactating and dry cows.

<sup>&</sup>lt;sup>5</sup> Default manure production estimates for semi-solid and liquid dalry manure include manure and washwater from the milking partour.

<sup>\* 2</sup> inches of wood shawings or 4 inches of straw placed on flaor. Manure and litter removed from barn at 25% moisture content, with a density of 20 lb/R <sup>1</sup>Ona-thiof litter Roor, two-thirds slatted Roor. Manure and litter removed from barn at 40% moisture content, with a density of 25 lb/ft<sup>2</sup>. Manure removed from barn at 80% moisture content with a density of 59 lb/ft<sup>2</sup>.

Poultry operations using litter (solid pack) must provide an estimate of yearly manure production

## **Existing and Proposed Manure Storage Facility Dimension Table**

If applicable, indicate the dimensions of any <u>existing</u> manure storage facility (MSF) that will be used to store manure from the proposed project:

	Exi	_	anure Dimen	Storage sions	Faci	lity	Storage
CDV V	Width	Length	Denth	Height	Slope	e (H:L)	Capacity (days)
CELL	Width			(Above Grade)	Inside	Outside	
Primary	ft	ft	ft	ft			
	ft	ft	ft	ft			
Secondary							
Tertiary	ft	ft	ft	ft			
Circular	 Tank	Diameter	Height	Depth (Above Grade)			
		ft	ft	ft			

Permit/Registration# <u>not permitted ar registered</u>

EMS to be decommissioned upon

construction of new steel tank

If available, indicate the dimensions of any proposed manure storage facility (MSF) that will be used to store manure from the proposed project:

	Proposed Manure Storage Facility Dimensions									
CELL	Width	Length	Depth	Height (Above	Slope (H:L)		Capacity (days)			
CELL			· F · · · ·	Grade)	Inside	Outside	(days)			
Primary	ft	ft	ft	ft						
Secondary	ft	ft	ft	ft			}			
Tertiary	ft	ft	ft	ft						
Circular	Circular Tank		Height	Depth						
Circular	Tank	171 ft	19 ft	19 ft			396			

The construction, modification or expansion of any manure storage structure requires a permit from Manitoba Conservation as per the Livestock Manure and Mortalities Management Regulation (M.R. 42/98).

If yes, please describe
Manure Application Method
The <u>Livestock Manure and Mortalities Management Regulation</u> requires the registration of annual manure management plans for new or expanding operations with 300 Animal Units or more.
Does the operation currently file an annual Manure Management Plan with Manitoba Conservation and Water Stewardship? (For operations with 300 Animal Units or more, only)  yes  no
Manure application methods and the season in which manure is applied affect odour, nutrient availability, crop response, land base requirements and the risk of water contamination.
Proposed application method:    broadcast   broadcast and incorporation within 48 hours   injection (liquids)
The <u>Livestock Manure and Mortalities Management Regulation</u> prohibits the application of manure from November 10 of one year to April 10 of the following year (winter application).
Time of year for application: Spring summer fall
The <u>Livestock Manure and Mortalities Management Regulation</u> puts restrictions on fall application of manure in the Red River Valley Special Management Area.
The proposed spread fields:  are  are  are not  in the Red River Valley Special Management Area.
Land Available for Manure Application

The land available for manure application includes all suitable land (owned, leased or under agreement) that is available to the operation for manure application.

Under the <u>Livestock Manure and Mortalities Management Regulation</u> and the <u>Nutrient Management Regulation</u>, application of nutrients is not permitted on Agriculture Capability Class 6, 7 and unimproved organic soils (Nutrient Management Zone 4) and within Nutrient Buffer Zones.

Areas of a field that are Class 6, 7, unimproved organic soils (Nutrient Management Zone 4) or areas within the nutrient buffer zones are considered unsuitable for manure application. In addition, fields with 60 parts per million (ppm) Olsen phosphorus (P) in the top six inches (15 centimetres) of soil cannot be included in the land base calculation.

Nutrients cannot be applied within the Nutrient Buffer Zones as outlined in the Nutrient Management Regulation (62/2008) and illustrated in the <u>Setback Requirements From</u> Water Features Table.

Has the setback area for all water features been observed and excluded from land base calculations for this operation?

/		
▼ yes	□ n	C

Use the Manure Application Field Characteristics Table to determine the following:

## Total suitable area available for manure application 2360 ac.

Manure Application Field Characteristics Table attached

Copies of <u>soil test reports</u> that are no more than 12 months old must also be included with this submission.

Soil test reports for the required area for manure application attached.

## Land Required for Manure Application

Long term, land base requirements for manure application are calculated based on estimates of the quantity of nutrients (nitrogen and phosphorus) excreted by livestock and the removal of nutrients by the proposed crops.

## Phosphorus

The quantity of phosphorus excreted by the livestock depends on the type, number and size of livestock, the quantity and availablility of phosphorus fed to the livestock and the amount retained by the livestock.

The removal of phosphorus by crops depends on the crops grown and the historical crop yield averages. (See the Crop Rotation Table).

The <u>Livestock Manure and Mortalities Management Regulation</u> requires that "sufficient land is available to the operator to implement an appropriate manure management plan" before Manitoba Conservation and Water Stewardship will issue a permit for a manure storage facility.

"Certain Areas" are defined by the <u>Livestock Manure and Mortalities Management</u> Regulation (M.R. 42/98) as areas where the amount of phosphorus in the manure produced annually by livestock in an area of not less than  $93.24 \text{ km}^2$  is greater than two times the annual crop removal rate of  $P_2O_5$  in that area. Currently the rural municipalities of Hanover and La Broquerie are considered to be "certain areas".

A livestock operation is considered to be located within a "certain area" if any part of the operation is located within the "certain area". This may include, but not limited to, barn(s), confined livestock area(s), field storage location(s), manure storage facility(ies), and/or spread filed(s).

Is the livestock open	ation located in "certo	to one times the crop	
yes no	acion rocated iii certo	an ureus :	

# MANURE APPLICATION FIELD CHARACTERISTICS TABLE

			_				_									 				
¥	Zoning	5-63	5-03	5-03	5-03	S-c3	5-03	5-03	5-03	5-03	5-03	5-03	5-03	2000			*			
7	Development Plan Designation	GREY - ST. CLAUDE	14	7,	17	17	-	<b>=</b>	11	ני	5	۲)	٤						1.0	
_	Soll Phosphorus (ppm Olsen P) 0-6 inches		4	27	46	35	8)	18	3)	72	J.	24	15							
I	Soll Nitrate (1b/acre) 0-24 inches	64	78	106	94	43	20	ģ	a	38	139		22							
ဖ	Agriculture Capability Class and Subclass	3,4	3,4	3,4	3,4	3.4	2,4	3,4	3,4	3,4	3,4	3,4	3,4							
ட	Net Acreage for Manure Application	S	76	340	380		Ì	155	320	ال.	35	290	280		ļ			}		
ш	Setbacks, including features	8m ditch		~	8m 21th wettand	8m 21tch wetland	8m ditch		Sm 2 Hop wetterd	8 m ditch	8m ditch	8m of the wetterned	Br ditch wetland	`						
۵	Total Acreage	2	8	400	Ann	220	8	03	280	ર્જ	40	320	320							
U	O/L/A	C	0	0	0	0	0	0	0	0	0	0	0							
8	Rural Municipality	Coper	COB	7000	120°C	CORY	N2000	COEY	7900	7300	GREY									
٨	Legal Description	M. 3-8-643	Nr. 4-8-1610	プログ シアダーグ シバイロブ り	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	200000000000000000000000000000000000000	Sp 9-8-6-05	9-8-6	9 8-60	5,015,027,10	N 16-8-613	111/1 1/-8-60	E 1/2 16-8-60							
١	Field Leg	j	צו	1	Į.	14	i	1	7	V	3  -	ت [	W							1

Enter the legal description for each parcel of land that will receive manure: Sec, Twp, Rge or River Lot (including parish). Identify the Rural Municipality in which the parcel is located. Indicate how the land has been secured for manure application: O – Own / L – Lease / A – Agreement

Total Net Acreage for Manure Application:

Enter setbacks from surface water or groundwater features that reduce the land available for manure application; include identification of type of feature (e.g. 8m, Order 3 drain). Enter the net long-term acreage available for manure application for the parcel after taking into account setbacks and excluding Class 6, 7 and unimproved organic soils. Enter the total acreage for the parcel.

Enter the agriculture capability class and subclass ratings for the acreage available for manure application.

Frovide soil test results for nitrate. N in Ib/ac at the 0-24 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing laboratory. Provide soil test results for nitrate. N in Ib/ac at the 0-24 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing laboratory. Rease Indicate the Development Plan and its by-law number in addition to the map designation for each field Please indicate the Zoning By-law and its by-law number in addition to the zoning for each field 4 ほくひほにらせ 4 小火



SUBMITTED FOR:

## SOIL TEST REPORT

FIELD Ŀ COUNTY

8 TWP QTR

SECTION 3 70.0

SAMPLE

NW ACRES PREV CROP

SUBMITTED BY:

CA0940

CARGILL-ELM CREEK

BOX 208 ELM CREEK. MB

ROG ONO CANADA

W S

Е

12436719 REF #

LAB #

BOX # 3984 138448

HAYWOOD,

BRUNG DIVORNE

ATE SAMPLED	10/11/12	DATE RECEIV	/ED 10/12/12	DATE REPORTED	10/13/12
NUTRIENT IN		INTERPRETATION	1ST CROP CHOICE	2ND CROP CHOICE	3RL CROP CHOICE
\$200 Services		V LOW LOW MED HIGH	GRAIN CORN	ļ	
6724	25 lo/ac   39 lo/ac		YIELD GOAL 130 BU	YIELD IGOAL	YIELD GOAL
0-24*	64 ln/ac	1111111111	estrice of the vertice calcius.	SUCCIONED CHIPS IN	SUCCESSIED GUIDEVINES
			BROADCAST/BUILD		
litrate No				Schapfild	LEVA RE APPLICATION
			N 92	N	N.
nesphorus	7 ppa:	111111111111111111111111111111111111111	P.O. 90 Broadcast	P2O)	B.O.
			2323 3455	SISSORY .	RO.
otassium	49 pom	11111111	K-O 130 Broadcast	<b>K.</b> G	K.O
nlonda <b>0-24</b>	128 lt/ac		(C) 0	CI <sup>2</sup>	Ol
0-64	36 lt/ac	111111111111111111111111111111111111111		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
0 = 6 6 - 2 \$ \$	48 lt/ac		S 0	S	9
loron (	0.3 ppa	11111	B 1 Broadcast	8:	B
ing (1.43)	0.29 præ	11111	Zn 10 Broadcast	Zń	Zn.
on Valen	21.6 pra		Fe 0	Fe	Fa
langanese:	1.7 ppm	111111111	Mn 0	Mn	Mo
ODDER MARIE	0.23 pre	111111	Cu 2 Broadcast	Cu	
1agnesium	346 pra	111111111111111111111111111111111111111		2002	
alcium	3848 рра		<b>Mg</b> 0	Mg	Ma Cui
odlum	22 pr=	1111	Lime 0.0	Lime	Line
rganic Matter	1.5 %	111111	Solfs Bufferin		aturation Typical Range)
arbonate (CCE)	1.9 % 0.24 maho/cm	111111	C- 5° 8.2	Capacity % Ca % Mo	
oluble 0- 6" alts 6-24"	0.15 mmhe/cm	1111	6-24"	22.3 100 86.1 12.9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
în no-till	•	d tillage systems, an addition		y increase corn yield.	

Estimated Texture = Texture is not estimated on high pH soils.

Crop Removal: Crop 1: P205= 52 K20= 35

AGVISE Broadcast quitelines will build P & K test levels to the high range over several years.



SUBMITTED FOR:

BRUNO DIVORNE

HAYWOOD,

SOIL TEST REPORT

FIELD SAMPLE

COUNTY 6
TWP 8
OTB NE

SECTION 4 ACRES 80.0

PREV CROP

SUBMITTED BY:

CA0940

CARGILL-ELM CREEK

BOX 208 ELM CREEK, NB

ROE ONO CANADA

W E

REF# 1243671B

LAB # 138444

BOX # 3984

SAMPLED

10/11/12

DATE RECEIVED

10/12/12

DATE REPORTED

10/13/12

JTRIENT	N THE		INTER	F		15	T CR	OP CHOICE	2ND	CROP CHO	ICE	3RD	CROP CH	OICE
or the following		•	V LDW LOW	MED	HIGH		SRA	IN CORN						
0= 65 4=245	30 48	lt/ac lt/ac				YIELI		20 BN	YIELD GOAL			YIELD GOAL		
0.24	78	lt/ac	******		4400			eskojujot zakis.	ENGGE	ante en claim			STED GÜN	DECINES
							BROAD	CAST/BUILD						
te N						or care			19740	REMARKUO.	TOY	D/A	BE AREU	DATION
						N	78		N.			N.		
Ulsen	4	pps	111111			P <sub>2</sub> O <sub>4</sub>	104	Broadcast	P <sub>2</sub> O <sub>4</sub>			P.O.		
Diser aphorus				uen:				2. 9001231						
issium.	64	bt <b>≅</b>	1111111111			κо	118	Broadcast	ко			ko		
		11.7					0		cı					
ide 0-24°		lt/ac	111111111111	1.3		CI			1 1888			Ċ.		
0= 41	32	It/ac	********	100000000000000000000000000000000000000		S	0		S			S		
6-24	36	lt/ac	11111111111			55555			F-53886					
in the R	0.5	ben	******			В	0		В			<b>B</b>		
	0.49	90.5	1111111111	100		Ζŋ	6	Broadcast	Zn			Zn		
						26.33			5888			Zh		
	32.3	ង មិន្តិ	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	*****		Fe	0		Fe			Fe		į
	3,8		********			Mn	0		Mn					
iganese;	3,8	bie		1	TO PETROLE	my year.						Mn		
)DEID	0.26	bir≢	11111111	THEST		€ŭ	2	Broadcast	eu-			CO-		
nesium	320	pr.a	1::::::::::::::::::::::::::::::::::::::	11111	m ·	324-82-1	0		V 54,000 in	<del></del>		Mg		
cium 🥲	3299	bto	*****	*****	trent in the	Mg	· · · · · · · · · · · · · · · · · · ·	.,.	Mg			MQ		
llum :	28	bt-a	*****			Lime	0.0		Lime			Lime		
						\$30600		<u></u>	27.00			:		
nic Matter	2.2		111111111	1 15/16	7.0	<b>7</b>	Solf 1	n= Buffer phi	Cation		Base Sa	tyration	(ypidal Rang	A. J. Colland College
onate (CCE)	1.3		311111				7.	33 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	L Capacit				% Na	
uble 0- 6"		meho/cm	*****			6-24		5	19.4 me	(45-75) 84.8	(15-20 13.7	1	(0-5)	(0-5)
ts 6-24"	0.13	mpho/cm	1111			0-24				84.8	10.7	0.	0.6	

In no-till or very reduced tillage systems, an additional 30 lbs/ac of nitrogen may increase corn yield.

Estimated Texture = Texture is not estimated on high pH soils.

Crop Removal: Crop 1: P205= 52 K20= 35

AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



SUBMITTED FOR:

Estimated Texture = Texture is not estimated on high oH soils.

AGVISE Band guidelines will build P & K test levels to the medium range over many years.

rop Removal: Crop 1: P205= 31 K20= 53

DIVORNE FARMS

HAYWOOD,

**SOIL TEST REPORT** 

FIELD SAMPLE

COUNTY &

SECTION 5 ACRES 430.0

PREV CROP

OTR

SUBMITTED BY:

CA0940

ROE ONO CANADA

CARBILL-ELM CREEK

SEC

BOX 208 ELM CREEK, MB

/LAB# 190335

12435820

REF#

BOX # 2854

Е

ATE SAMPLED	11/ 9/12	DATE RECEIV	ED !1/14/12	DATE REPORTED	11/1: /12
NUTRIENT I	IN THE SOIL	INTERPRETATION VLOW LOW MED HIGH	1ST CROP CHOICE	2ND CROP CHOICE	- 3RD CROP CHOICE
0= 6° 6=24° 0=24°	34 lb/ac 72 lb/ac 106 lb/ac	1::::::::::::::::::::::::::::::::::::::	SUSGESTED GUIDELINES	YIELD GOAL SUGGESTED GUIDELINES	YIELD GOAL SUGGI STED GUIDELINES
itratę N			BAND LB/ACRETAFPLICATION  N 0	LEVACHE PAPPLICATION	LB/AGRE APPRLICATION
hosp <b>hons</b>	27 pps	111111111111111111111111111111111111111	PiCa 10 Band(Starter):	P.O.	P.C.
otassium	197 рв:а		KO 4 Band 1	KO	Ko
nloride 0-24*	156 ib'ac		<b>El</b> ) 0	G	C
ultur 0- 6* 6-24*	66 lb/ac 108 lb/ac	**************************************	<b>S</b> 0	S	S
oron:	1.2 pp.	111111111111111111111111111111111111111	<b>B</b> 0	В	B
inc	2.05 pps	::::::::::::::::::::::::::::::::::::::	Zn o	Zn	Zn
on:	25.1 pps		Fe 0	Fe	Fe
langanese	2.2 pps	1111111111111	Mr o	Mn	Mn
opper	0.52 pp.1		CU 0	Cu	©u
lagnesium: alcium	564 pc 1 4489 pc 1		<b>M</b> 0 0	Mg	Mg
odium	39 gpa	111111	Lime 0.0	Lime	Lime
			EU PERSONAL EN SE EN	ACCOMPANIES OF THE POST AND SERVICE OF THE POST OF THE	Standen beschementen er er er
ganic Matter irbonate (CCE)	2.4 %	1111111111	Self to Property	Capacity St Ca St V	Saturation (ypical Range)
oluble 0- 6* alts 6-24*	0.42 amin/ce 0.27 emin/ce	1111111111	9- 6° 8.0 6-24°	27.8 EEC (65-75) (15-2 80.7 16.5 EED PLACED FERTILIZER CAN CA	1.6 0.6

The risk of the development of iron chlorosis on soybeans on this field is low based on the salt and carbonate levels.



SUBMITTED FOR:

BRUND PIVORNE HAYMODD

## **SOIL TEST REPORT**

FIELD COUNTY ć

Υ₩P В QTR SEC SECTION 6

SAMPLE

ACRES LOTT LICO

PREV CROP SILAGE CORN

SUBMITTED BY:

CARGILL-ELM CREEK

BOX 208

ELM CREEK, MB

ROG ONO CANADA

CA0940

W Ε S

REF# 10251924

LAB# 74758 BOX # 4090

DATE BECEIVED

SAMPLED	9/12/12	DATE RECEI	IVED 9/13/12	DATE REPORTED	9/1-/12
White character	THE SDIL	INTERPRETATION VLOW LOW MED HIGH	1ST CROP CHOICE  GRAIN CORN	2ND CROP CHOICE	3RD CROP CHOICE
0= 6° 5-21°	64 lt/ac		YIELD GOAL 125 BU	YIELD SOAL	YIELD GOAL
0-24	30 lt/ac 94 lt/ac		SUGGESTED GUIDELINES	SUCIDENTED AUDENNES	SVGG STEEL OVIDELINES
	74 11740		BROADCAST/BUILD	NAMES AND ASSOCIATION OF STREET AND ASSOCIATION OF STREET AND ASSOCIATION OF STREET AND ASSOCIATION OF STREET,	The Entrantition Designation is the Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-
A NI			UEVACRE VAPRECIATION	HEAT ONE AND MOUNTEN	HERVAY REPAREMINATIONS
eN -		48	56	N.	
ALFEB	46 pp#		P=0 15 Band (2×2) \$	P.O.	) (C)
sium	151 ppı		ISC 44 Broadcast	Ko	
120-2112			393.M	1244	
8.0-24"	116 lb/ac		<b>G1</b> 0	CI	
N- 6"	60 16/ac		S 0		
6-24	48 1b/ac	11111111111111	1.000 m		
	1.3 ррн		<b>B</b> 0	8)	E
Sec. 4	2.43 pp:s	*************************	<b>Z</b> n 0	Zn	Žį
34,7	46.6 ppn		<b>Fø</b> : 0	Fø	
anese:	6.3 pp:)		Mri 0	Mñ	
9 <b>F</b> >>>>	0.34 pps		CH 0	C.L	ME.
esium	575 pps		Mg 0		
m	3692 pp:		<b>MO</b> 0	Mg	MOS
m .	46 pps	::::::	Lime 0.0	Lime	
			- I		J
Matter	2.6 %	1111111111	Soil Buffer & L	Cation: 22 77 Thanes	aturatori vocat Rancelii
ile (CCE)	3.0 X	11111111111111	рн рн		1
e0- 6"	0.33 mario/cm	11111111	9- 6* 7.8	23.8 mes (65-75) (15-20	)) (1-7! (0-5) (0-5)
6-24"	0.18 seto/ca	11111	6-245	D PLACED FERTILIZER CAN CAL	1.6 0.8

in no-till or very reduced tillage systems, an additional 30 lbs/ac of mitrogen may increase corn yield.

istimated Texture = Texture is not estimated on high pH soils.

roadcast P or K fertilizer is not suggested on high testing soils, however a band application of fertilizer is suggested as a starter. Top Resoval: Crop 1: P205= 50 K2D= 34

REVISE Broadcast guicelines will build P & K test levels to the high range over several years.



SUBMITTED FOR:

BRUNNO DIVORNE

BOX 40

HAYWOOD, NB ROG OWO

## SOIL TEST REPORT

FIELD SAMPLE
COUNTY 6
TWP 8 SECTION 8
OTR NE ACRES

SUBMITTED BY:

CA0940

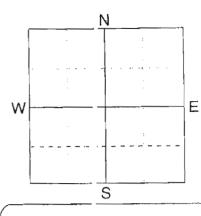
CARGILL-ELM CREEK

BOX 208

PREV CROP

ELM CREEK, MB

ROG ONO CANADA



REF # 11687321

LAB # 56950

BOX # 2294

DATE REPORTED 8/27/12 8/28/12 DATE RECEIVED 8/25/12 TE SAMPLED 2ND CROP CHOICE 3RI CROP CHOICE 1ST CROP CHOICE INTERPRETATION NUTRIENT IN THE SOIL V LOW LOW MED HIGH 13 ls/ac YIELD YIELD YIELD

0 / (\$ | 0 - 211 | 0 - 211 30 lo/ac SUST ESTED COLORS Apereign and ania ania a State (Company (Claybratal News) 43 lb/ac 111111 TE PACE HE MENUCA LODE Xetrated = Att 5=1etAt(0)/2 B/A REPARRIESTION trate N N P.O. OSphorus 35 ptm KO. KΩ 185 c.pm otassium CI e) iloride 0-24° 268 :b/ac \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 0-6° 6-24 90 b/ac \* 252 lb/ac 4 B Z0 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 1.6 .10# ..... 3.17 opm Fe to the 25.8 30# Mn Mo 3.2 pm langanese Ĉ. THE PROPERTY OF THE PARTY OF TH 0.81 spm Μg ..... 770 ppa lagnesium. ...... alclum .... 4058 cpm odium <sub>a 3</sub> Line Line \*\*\*\*\*\* 62 ppm

	Soil 1		<b>(4</b> 0)		Base Saha	an inty	kas Reng	i de
	The Park	是其時以際	Capacity	% Ca	% Mg		* NA	<b>%</b> H
ğ	0- 6" 8.0 6-24"		27.5 ቋድዊ	(65-75)	[15-20]	$\{-7\}$	[0-5]	(0-5)
Ş	6-24"		2715 MEG	73.9	23.4	7	1.0	

Estimated Texture = Texture is not estimated on high pH soils.

11111

3.3 7

4.4 %

0.24 saho/cs

0.31 mmho/cm | \$\$\$\$\$\$\$\$\$

rganic Matter

arbonale (CCE)

oluble 0- 6

alts 6-24°

1111111111111

211111111111111111



SUBMITTED FOR:

FIELD

SAMPLE

COUNTY 6 TWP

8

SECTION 9

SEC QTR PREV CROP

ACRES 600.0

SUBMITTED BY:

CA0940

CARGILL-ELM CREEK

SOIL TEST REPORT

BOX 208

ELM CREEK, MB

ROG ONO CANADA

23.3 meg

REF # 10251721

LAB# 71199

BOX # 3623

Ε

HAYROOD,

BRUNO DIVORNE

DATE RECEIVED

0/11/12

DATE REPORTED

(63-75) (15-20) (1-7) (0-5) (0-5)

0.9

74.8 22.7 :.6

S

E SAMPLED	9/	7.'12	DATÉ RECE	IVED 9/11/12	DATÉ REPORTED	9/1 ?/12
UTRIENT	IN THE	SOIL	INTERPRETATION V LOW LOW MED HIGH	1ST CROP CHOICE	2ND CROP CHOICE	3RI CROP CHOICE
0- 6" 6-21" 0-24"	45	lo/ac lo/ac lo/ac		YIELD GOAL SUGGESTED GUIDE INFS	YIELD GOAL SUGGESTED GUIDELINES	YIELD GOAL SUG ESTED GUIDEUNES
ate N			Ala -	EBYACHE APPRICATION	6208	1000
sp <b>A658</b>	18	bt#		N. B.O.	P.O.	P.C.
assium	146	pps	***************	Ko	Ko	lso.
ride 0-24.		lb/ac			GI	
6-24		lb/ac lb/ac	11111111111111111111111111111111111111	S	S B	
on c	1.31	t be	######################################	Zn	Zn	<b>A</b> C
, <b>4</b> /2	20.8		***************************************	Fe	.Fe	Fe
nganese	3.7	ppm	111111111111111111111111111111111111111	Mn	Mn	M
pper see		3 <b>54</b>	***************************************	<b>O</b>	<b>60</b>	
lcium:	3471	Opa Opa		i Ma	Mg	
dium	48	apa	*******	Lime	Line	Line
janic Matter rbonate (CCE)	2.7		111111111111	Soil Buffel A	Cation State Exchange Scapacity State	Sefived Krivokal Heroel
33.14.0 (33.2)	V 1 2			1 2 10 7 0	147 751 146 5	

0-6° 7.9

Estimated Texture = Texture is not estimated on high pH soils.

0.32 amho/cm ########

sluble0~ 6\*

ults 6-24.



SUBMITTED FOR:

DIVORNE FARMS

HAYWOOD.

**SOIL TEST REPORT** 

FIELD SAMPLE

COUNTY Ł 8 TWP

SECTION 15 ACRES 80.0

PREV CROP

QTR

SUBMITTED BY:

CA0940

CARGILL-ELM CREEK

SN

BOX 208

ELM CREEK. MB

ROS ONO CANADA

Ε

12435819 REF#

LAB# 190332

BOX # 2854

DATE RECEIVED DATE REPORTED ATE SAMPLED 11/ 9/12 11/14/12 11/1: /12

ALE SAMPLED	11/ 9/12	DATE RECEN	VED 11/14/12	DATE REPORTED	11/1 /12
NUTRIENT	IN THE SOIL	INTERPRETATION V LOW   LOW   MED   HIGH	1ST CROP CHOICE  GRAIN CORK	2ND CROP CHOICE	3RD CROP CHOICE
6-24* 20-24*	33 lt/ac 38 lt/ac	111114	GOAL 130 BU	GOAL	GOAL
itrate N			N 118	ABAAAREAAH (CATON) N	EBYAN FE APPLICATION
nosphenis	12 pps	111111111111111111111111111111111111111	PAG6 32 Band #	PiO,	P.O.
otassium	85 рра	************	60 53 Band \$	KO	KO
iloride 0-24*	192 lb'ac		<b>S</b> 0	S.	G.
0-6°	64 lb/ac 360+ ib/ac		<b>S</b> 0	S	6
oron	1.7 pp:s		<b>B</b> 0	В	<b>B</b>
n¢	1.12 pp.s		20 2 Band	Za	Zn
לת. ייני אולי	23.2 pp.s		Fe 0	T.G.	Fe
anganese	2.5 pp	111111111111111111111111111111111111111	Mh 0	Mh H	Mi
opper agnesium	0.42 pps 1025 pps		Cu o	.Cu	CU
alcium odium	4100 pp.1		Mg 0	Mg Lime	Mg Lime
	87 pp:s	111111111111111111111111111111111111111	<b>製掘</b>	Line acceptance	
ganic Matter	2.9 %	*****	Sol F T Riffer T		aturation (ypical Pange)
rbonate (CCE)	4.4 %	*******	PE	Capacity % Ca % Mc	
oluble 0 - 6*	0.32 สดาก/เต	11111111	0-6" 8.5	29.6 seq (65-75) (15-2)	
ilis 6-24"	0.64 mg 10/cm	initialitii a saa	6-24" t COUTTON: SE	ED PLACED FERTILIZER CAN CAL	
			♦ FMAITRU! DE	ER LEWIER LEKTIFIEK PUN FR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

In no-till or very reduced tiliage systems, an additional 30 lbs/ac of mitrogen may increase corn yield.

Estimated Texture = 'exture is not estimated on high pH soils.

rop Removal: Crop 1: P205= 52 K20= 35

AGVISE Band guidelines will build F & K test levels to the medium range over many years.



SUBMITTED FOR:

BRUNG DIVORNE

KAYWOOD,

**SOIL TEST REPORT** 

FIELD SAMPLE COUNTY

SECTION 16 TWP ACRES QTR

PREV CROP

SUBMITTED BY:

CA0940

CARGILL-ELH CREEK

BOX 208

ELM CREEK. NB

ROG ONO CANADA

40.0

E W S

12436717 REF#

138439 LAB#

BOX # 3984

SAMPLED 10/11/12 DATE RECEIVED

10/12/12

DATE REPORTED

10/17/12

g divor	IN THE COL	INTERPRETATION	1ST CROP CHOICE	2ND CROP CHOICE	3RD CROP CHOICE
Section of the second	IN THE SOIL	V LOW LOW MED HIGH	GRAIN CORN		
0-6* 6-24*	98 lt/ac 51 lt/ac		YIELD 130 BU	YIELD IGOAL	YIELD GOAL
0-24	139 lt/ac		SUGGESTER (EDIDEDINES	SOGESTED GUIDELINES	SUGGI STED GUIDELINES
			BROADCAST/BUILD		
ite N			REVIAORED APPRICANTOS	28.83.80	EB/AI RE APPLICATION
			N 17	Ň	N
Olsen sphorus	5 ррг	11111111	P.Os 100 Broadcast	P.O.	0.48
isslum <sup>5</sup>	72 prs	11111111111	KGO 111 Broadcast	Ko	Kg
ride <b>0-24</b> *	1096 li/ac	111111111111111111111111111111111111111	Gi 0	O	CL
0 6	112 lb/ac		<b>S</b> 0	8	9
¥ <b>λ-24</b> °	144 lb/ac	111111111111111111111111111111111111111		В	
on	1,2 baw	11111111111111111111111111111111111111		В	<b>6</b> 3
	1.85 poe		Zn 2 Broadcast	Zh	B Z
) (1) (1) (1)	43.4 pos	***********************	Fe 0	Fe	TB.
nganese	3.2 pag		Mn 0	Mn	WARE
ррег	0.58 вза		Cu' v	<del>Cu</del>	
gnesium/	727 p.ss	***************************************	Mg 0	Mg	Mg
lcium/s	4319 pom		7998	797-22 188-24	
dium	225 pa <b>m</b>		Lime 0.0	Lime	Eime Eime
anic Matter	2.9 7	111111111111	Soli Borrier of	The state of the s	Saturation (Typical/Range)
bonate (CCE)	3.4 ) 0.55 saho/	11111111111111111111111111111111111111	0-5" 8.2	(45-75) (15-7	
luble 0- 6". lts 6-24"	0.33 rano/ 0.44 saho/	1 7 7 6 1	6-24"	28.8 meg   1837/37 113-2 74.9   21.0	
(17万日 日東京を開始)	VIII 1 - 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /		1 70 11 / / - 1	1-1-1	

In no-till or very reduced tiliage systems, an additional 30 lbs/ac of mitrogen way increase corn yield.

Estimated Texture = Texture is not estimated on high pH soils.

Crop Removal: Crop 1: P205= 52 K20= 35

AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



SUBMITTED FOR:

## **SOIL TEST REPORT**

FIELD SAMPLE

COUNTY TWP

ACRES 300.0 QTR W1/2

PREV CROP

SUBMITTED BY:

CA0940

# CAUTION: SEED PLACED FERTILIZER CAN CAUSE INJULY #

CARGILL-ELK CREEK

BOX 208

ELM CREEK. HB

ROS ONO CANADA

SECTION 16

12435817 REF#

LAB# 190327

BOX # 2800

DATE SAMPLED

HAYKOOD.

DIVORNE FARMS

117 9712

DATE RECEIVED

11/14/17

DATE REPORTED

W

S

DATE SAMPLED	117 4712	DATE RECEIV	11/14/12	DATE REPORTED	11/.5/12
NUTRIENT	IN THE SOIL	INTERPRETATION VLOW LOW MED HIGH	1ST CROP CHOICE	2ND CROP CHOICE	3RD CROP CHOICE
0- 8	2 ib/ac	V LOW LOW   MILD   MICH	ALFALFA		
6-24*	9 16/ac		YIELD GOAL 4 TONS	YIELD GOAL	YIELD GOAL
0-24*	il lb/ac	11	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGC ESTED GUIDELINES
			BANO		
Vitrate N			LB/ACRE/APPLICATION	LEVACRE VAPPLICATION	3 3 5 3 6 M
			<b>N</b> 0	N	N
hosphores.	24 ppn		Page 15 Band(Starter):	RO.	P <sub>2</sub> O <sub>3</sub>
otasslum	185 pom		K-O 57 Band t	K₃O	K-0
hloride 0-24"	200 lt/ac		GI 0	e.	C
21 (1765-1861)	94 lt/ac	***************************************		S	
ultur 0- 6* 6-24*	192 lt/ac		<b>\$</b> 0	S	S
oron	1.1 ppa		B. 1 Broadcast	B	В
inc	2.01 pra		Zn o	Zn	Zn
on	22.5 pp:		<b>5e</b> 0	Fe	Fe
langanese	1.9 гра	111110111111	Mici 0	Mn	Mn
opper	0.44 ppa		Cur ! Band (Trial)	би	Cu
agnesium	463 ррл	***************************************		Mg	
alcium	3635 pp.1		Mg 0	Mg.	Mg
odium	35 ppm	111111	Lime 0.0	Lime	Lime
		100			
janic Matter	i.4 %	111111	Soli Buffar	A Câtion A Bada	eturation (ypical Range)
rbonate (CCE)	2.1 %	11111111111	ex ph. To the ph. S. C.	Capacity % Ca % M	j % к % Na % Н
luble 0- 6"	0.33 ambo/cm	111111111	0- 6" 8.0 6-24"	22.7 eeg (65~75) (15-2	
ilts 6-24*	0.30 male/cm	1111111		80.2 17.0	

Estimated Texture = Texture is not estimated on high pH soils.

Crop Removal: Crop 1: PZD5= 40 K2D=200

SVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

DIVORNE FARMS

HAYWOOD.

**SOIL TEST REPORT** 

FIELD SAMPLE

Ė COUNTY Я

SECTION 16 TWP ACRES 280.0 E1/2 OTR

PREV CROP

SUBMITTED BY:

CA0940

CARSILL-ELM CREEK

BCX 208

ELM CREEK. MB

ROG ONO CANADA

W Ε

12435818 REF#

190328 LAB#

BOX # 2800

CANADLED

DATE RECEIVED 11/14/12 DATE REPORTED 11/11/12

SAMPLED	9/11/12	DATE REC	CEIVED	11/14/12	DATE REPORTED	11/1:/12
JTRIENT 0- 6* 6-24* 0-24* ate N	IN THE SOIL  4 lt/ac 18 lt/ac 22 lt/ac	INTERPRETATION V LOW LOW MED HIGH	YIELD GOAL SUGGE	CROP CHOICE  GRAIN CORN  150 BU  BAND  FEL APRIL PARILON		LEVA BE APPLICATION
spi <b>noñ5</b> 5	15 ppn	111111111111111111111111111111111111111		22 Band #	P.O.	P-O
assium	127 psa		Ko	34 Band #	KO	K-0
ride 0-24*	184 !5/ac	111111111111111111111111111111111111111	Yr en	0	C	C
0- 6* fur 6-24*	42 15/ac 186 15/ac	**************************************		9	S	S
ron	1.1 ppm	111111111111111111111111111111111111111	В	0	В	B
iC	1.34 pps	*****************	Zn	2 Band	Zn	Zn Fe
n	20.0 ::pm		Mn	0	Mn	Mn
anganese	0.30 ipm	111111111	e l	0 Band		Cu
agnesium	636 105	***************************************		0	Mg	Mg:
alcium odlum	4644 <u>opa</u> 51 opa	11118118	325 M	.0	Lime	Line
ganic Matter	2.4 %	1111111111	Sol pH	3 Burler * 1		Saturati in (Typical Range)
arbonate (CCE)	4.7 %	************	·· (5)			6K % Na % H
oluble 0 - 6 alts 4-24	0.15 meho/c		0- 6° 5-24°	d.5	79.1 a2q (65-75) (15-77) (15-77)	
alts 6-24*	0.32 mmhp/c	H +++++++	2-74		PER DIACES SERVICIONES CAN C	

# CAUTION: SEED PLACED FERTILIZER CAN CAUSE I JURY #

in no-till or very reduced tillage systems, an additional 30 lbs/ac of mitrogen may increase corm yield.

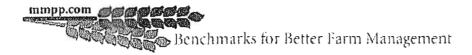
Estimated Texture = Texture is not estimated on high pH soils.

rop Removal: Crop 1: P205= 52 K20= 35
AGVISE Band guidelines will build P & K test levels to the medium range over many years.

## **CROP ROTATION TABLE**

A	в	ວ	ď	3
Expected Crops in the Rotation	Acreage	Historical Yield	Units	Source of Yield Information
Alfalfa	290	2,19	tons ac	MASC
Barley - Grain	155	66.5	bo/ac	MASC
Corn - Gravin	1419	89.2	by ac	MASC
Octs	96	94.9	by/ac	MASC
Soybeans	400	30.1	bo/ac	MASC
Total Net Acreage for Manure Application	2360			

A. List all of the crop(s) to be grown in the rotation on the acreage that will receive manure.
B. Indicate the average acreage for each crop over the rotation. For example, if there are 720 suitable acres available for manure and approximately 40 these acres will be used to grow canola, enter 288. The total of column 8 should add up to Total Net Acreage for Manure Application provided in the Manure Application Field Characteristic Table.
C. Enter the historical yield average for each crop. Long-term yield averages can be determined using MASC data (http://www.masc.mb.ca/masc.nsfindex.html?OpenPage) or on-farm yield records are used, please provide copies.
D. Enter the units for the yields provided (e.g. bu/acre, tons/acre).
E. Enter the source of the historical yield average provided.



Web address: http://www.mmpp.com/mmpp.nsf/mmpp\_browser\_fertilizer.html

#### **MMPP Fertilizer Data Browser**

(Fertilizer Query Help)

Save Raw Data

New Search

#### Search Summary

Your selected search:

Region(s) Selected: GREY

Crop(s) Selected: ALFALFA

Soil Zone(s) Selected: All

Period Selected: 1995 to 2012

This search returned 28 records from the MASC database, summarized below:

Total Acres:

6,628 acres

Yield per Acre:

2.792 Tons / acre (2.533 tonnes / acre)

Fertilizer Applied per Acre (actual product):

Nitrogen:

22.7 lbs / acre

(0.010 tonnes / acre)

Phosphorus:

30.3 lbs / acre (0.014 tonnes / acre)

Potassium:

45.9 lbs / acre (0.021 tonnes / acre)

Sulfur;

2.8 lbs / acre (0.001 tonnes / acre)

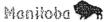
View Raw Data

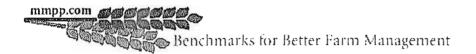
Save Raw Data

New Search

Canadă







Web address: http://www.mmpp.com/mmpp.nsf/mmpp\_browser\_fertilizer.html

#### MMPP Fertilizer Data Browser

(Fertilizer Query Help)

Save Raw Data

New Search

#### Search Summary

Your selected search:

Region(s) Selected: GREY

Crop(s) Selected: BARLEY

Soil Zone(s) Selected: All

Period Selected: 1995 to 2012

This search returned 81 records from the MASC database, summarized below:

Total Acres:

88,123 acres

Yield per Acre:

66.5 Bushels / acre (1.448 tonnes / acre)

Fertilizer Applied per Acre (actual product):

Nitrogen:

76.5 lbs / acre (0.035 tonnes / acre)

Phosphorus:

30.1 lbs / acrc (0.014 tonnes / acre)

Potassium:

12.3 lbs / acre (0.006 tonnes / acre)

Sulfur:

3.2 lbs / acre

(0.001 tonnes / acre)

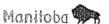
View Raw Data

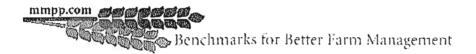
Save Raw Data

New Search

Canadã







Web address: http://www.mmpp.com/mmpp.nsf/mmpp browser fertilizer.html

#### **MMPP Fertilizer Data Browser**

(Fertilizer Query Help)

Save Raw Data

**New Search** 

#### Search Summary

Your selected search:

Region(s) Selected: GREY

Crop(s) Selected: GRAIN CORN

Soil Zone(s) Selected: All

Period Selected: 1995 to 2012

This search returned 72 records from the MASC database, summarized below:

Total Acres:

79,685 acres

Yield per Acre:

89.2 Bushels / acre (2.266 tonnes / acre)

Fertilizer Applied per Acre (actual product):

Nitrogen:

101.2 lbs / acre (0.046 tonnes / acre)

Phosphorus:

33.6 lbs / acre (0.015 tonnes / acre)

Potassium:

31.6 lbs / acre

(0.014 tonnes / acre)

Sulfur:

6.0 lbs / acre

(0.003 tonnes / acre)

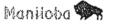
View Raw Data

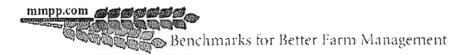
Save Raw Data

**New Search** 

Canadã







Web address: http://www.mmpp.com/mmpp.nsf/mmpp\_browser\_fertilizer.html

#### MMPP Fertilizer Data Browser

(Fertilizer Query Help)

Save Raw Data

New Search

#### **Search Summary**

Your selected search:

Region(s) Selected: GREY

Crop(s) Selected: OATS

Soil Zone(s) Selected: All

Period Selected: 1995 to 2012

This search returned 103 records from the MASC database, summarized below:

Total Acres:

372,213 астеѕ

Yield per Acre:

94.9 Bushels / acre (1.464 tonnes / acre)

Fertilizer Applied per Acre (actual product):

Nitrogen:

74.8 lbs / acre

(0.034 tonnes / acre)

Phosphorus:

29.9 lbs / acre (0.014 tonnes / acre)

Potassium:

8.8 lbs / acre

(0.004 tonnes / acre)

Sulfur:

3.0 lbs / acre

(0.001 tonnes / acre)

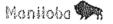
View Raw Data

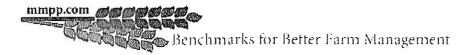
Save Raw Data

New Search

Canada







Web address: http://www.mmpp.com/mmpp.nsf/mmpp browser fertilizer.html

#### **MMPP Fertilizer Data Browser**

(Fertilizer Query Help)

Save Raw Data

New Search

#### Search Summary

Your selected search:

Region(s) Selected: GREY

Crop(s) Selected: SOYBEANS

Soil Zone(s) Selected: All

Period Selected: 1995 to 2012

This search returned 45 records from the MASC database, summarized below:

Total Acres:

38,417 acres

Yield per Acre:

30.1 Bushels / acre (0.819 tonnes / acre)

Fertilizer Applied per Acre (actual product):

Nitrogen:

9.5 lbs / acre

(0.004 tonnes / acre)

Phosphorus:

25.6 lbs / acre (0.012 tonnes / acre)

Potassium: 10.4 lbs / acre (0.005 tonnes / acre)

Sulfur:

3.6 lbs / acre

(0.002 tonnes / acre)

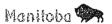
View Raw Data

Save Raw Data

New Search

Canadä





In areas which are not considered to be "certain areas", Manitoba Conservation and Water Stewardship may issue a manure storage facility permit, if the operation shows it has access to sufficient suitable land to apply manure at a rate equivalent to two times the crop removal rate of phosphorus.

For more information on obtaining a manure storage facility permit, please contact Manitoba Conservation and Water Stewardship, Environmental Approvals branch at (204) 945-5081.

Use the <u>Land Base Calculator</u> to calculate the minimum area required for manure application.

Total minimum area required for manure application at two times crop removal, for operations outside of Hanover and La Broquerie	692 ac. (nitrogen based) 583 ac. (P205 based)
Total minimum area required for manure application at one times crop removal, for operations within Hanover and La Broquerie AND	1165 ac.
For the long-term sustainability of operations outside of Hanover and La Broquerie	

For more information on completing land base calculations, call Manitoba Agriculture, Food and Rural Initiatives (MAFRI) at (204) 945-3869 in Winnipeg.

Land Base Calculator attached

#### Land Base Requirement Summary

By comparing the land available for manure application with the land required for manure application, state whether sufficient suitable land for manure application:

has not been identified has been identified for two times the crop removal rate of phosphorus (for operations outside of the RMs of Hanover or La Broquerie)
has been identified for one times the crop removal rate of phosphorus (for operations within the RMs of Hanover and La Broquerie)

o o o	Operation Name:	Diverne Farms (18)									
							Output per head per Annual Production Nitrogen	Annual Produ	uction Nitrogen	Annual Production P <sub>2</sub> O <sub>5</sub>	uction P <sub>2</sub> O <sub>5</sub>
STE	STEP 1: Livestock information	Iformation	Livestock	Animal	Length		cycle		, [		
	Species	Type	SATEL	3		Year	kg N kg P <sub>2</sub> O <sub>5</sub>	Kg.	g.	kg	<u>.</u>
	1 Dairy	Dairy Cows (including associated livestock)	250	2009	365	1.00	154.5 75	38625	84975	18750	41250
	2										
4 5	3										
	4					<u>:</u> 					
 	2					-					
1.7	9					-					
	7					÷					
	8										
	6										
	0										
			Total AU	500							
L	STEP 2: Crop Ro	STEP 2: Crop Rotation Information Removal (Ib/ac)	10)			Base Total N:	tal N:	38625	84975	18750	41250
		Nitrogen (N) P2Os	2 X P <sub>2</sub> O <sub>6</sub>		Post Ma	ınure A	Post Manure Application N:	30900	67980		
	. Detailed Rotation (Farm Data)	n (Farm Data) 35	. 71					A	Acres	Acı	Acres
	TEP 3: Manure S	STEP 3: Manure Storage Information			LAND	BASE	LAND BASE REQUIRED	2 X P <sub>2</sub> O	2 X P <sub>2</sub> O <sub>5</sub> Removal	1 X P <sub>2</sub> O <sub>5</sub>	t X P <sub>2</sub> O <sub>5</sub> Removat
74		Value (%)			Nit	Ogen (N	Nitrogen (N) based	6	692	39	692
		N-losses			Phosp	horus (F	Phosphorus (P <sub>2</sub> O <sub>s</sub> ) based		583	11	1165

- Nutrient values excreted by livestock is adapted from Quebec (Le Centre de reference en agriculture et agroalimentaire du Quebec CRAAQ)
- Nutrient excretion for sows is based upon unpublished data for Manitoba

  Nutrient values for turkeys based upon data from "Farm Practices Guldelines for Poultry Producers in Manitoba, 2000"

Footnote:
The nikrogen (N) and phosphorus (expressed as P2O5) land bases are based on nutrient excretion, nutrient removal and N losses during storage. Nutrient removal includes only the quantity of nutrient that is in the harvested portion of the plant and is exported from the field.

The land base calculations are not based on nutrient uptake. Nutrient uptake is the total quantity of nutrient taken up by the plant and stored in the roots, leaves and seeds.

The N land base assumes zero volatilization losses during field application using best management practices for N conservation. Field N losses from nitrification and leaching are also not included.

Operation: Divome Farms Ltd.

					21日間では多名の語の音楽をないがなり。		otal Ivernova	3
dor	L Re	N Removed per Unit of Crop	Historical Average Yield	Unit	Acreage	P <sub>2</sub> O <sub>5</sub>	2(P <sub>2</sub> O <sub>5</sub> )	Nitrogen (N)
Afalfa	13.80	58.00	2.79	tons/ac	290	4.7	9.5	19.9
3arley Grain		76.0	66.5	bu/ac	155	8.	3.7	4.2
sarley Silage		34.40		tons/ac				
anola		1.93		bu/ac				
orn Grain		76.0	89.2	bu/ac	1419.	23.6	47.2	52.0
orn Silage		31.20		tons/ac				
ny edible beans		4.17		cwt/ac				
ababeans		5.02		cwt/ac				
lax		2.13		bu/ac				
srass hay		34.20		tons/ac				
entils	1.03	3.39		cwt/ac				
ats	0.26	0.62	94.9	bu/ac	96	0.	2.0	2.4
eas	69:0	2.34		bu/ac				
otatoes	0.09	0.32		cwt/ac				
ye	0.45	1.06		bu/ac				
oybeans	0.84	3.87	30.1	bu/ac	400	4.2	8.5	19.7
unflower	1.10	2.80		cwt/ac				
Wheat - Spring	0.59	1.50		bu/ac				
Wheat - Winter	0.51	1.04		bu/ac				
				大学が出来が著名	2360	35.4	70.8	98.3

#### Long-Term Environmental Sustainability

The Government of Manitoba has included phosphorus as a nutrient by which applications of manure, synthetic fertilizer and municipal waste sludge to agricultural lands may be limited.

Over the short-term for fields with low phosphorus, regulations allow manure to be applied to meet the nitrogen requirements of the crop. This often results in overapplication of phosphorus and a build-up of phosphorus in soils. When soil test phosphorus levels reach 60 ppm Olsen P, manure application rates must consider how much phosphorus will be removed in the harvested portion of the crop. At 60 to 119 ppm Olsen P, the amount of phosphorus that can be applied cannot exceed twice (two times) what the crop can remove in order to slow the build-up of soil phosphorus. Once soil test phosphorus levels reach 120 ppm Olsen P, applications of phosphorus are restricted to no more than what the crop can remove (one times) in order to stop further soil test phosphorus build-up. At 180 ppm Olsen P, no additional phosphorus may be applied.

It should be noted that soil-test phosphorus levels of 60 ppm Olsen P or greater are agronomically very high and at these levels most crops will not benefit from additional phosphorus beyond starter phosphorus. As phosphorus levels build up in soils, the concentration of phosphorus in runoff increases.

Therefore, to remain environmentally sustainable over a long-term planning horizon of 25 years or more, phosphorus applications from applied manure and other nutrient sources such as commercial fertilizers must be balanced with crop removal to avoid further build-up in soils. Consequently, sufficient land must be available in relatively close proximity to the operation to balance phosphorus applications with crop phosphorus removals (one times) so that manure treatment and export of phosphorus from the region is not required.

I acknow	ledge that up to	1165	acres/hectares (one times crop
removal fron	n table above) may b	e required fo	or the long term environmental
sustainabilit	y of the operation.		

#### 10.0 Mortalities (Dead Animal) Disposal

rendering

Type of disposal:

The <u>Livestock Manure and Mortalities Management Regulation</u> sets requirements for the use, management and storage of livestock mortalities in agricultural operations. It helps ensure livestock mortalities are handled in an environmentally sound manner. Winter application of composted mortalities is prohibited.

composting
incineration (in approved incinerator only)
Mass Mortalities
A plan for mass mortalities is in place.
Currently not required by MB Conservation + Water Stewardship
What steps will be taken in the case of mass mortalities?
De to soil + groundwater conditions on site that are
not conducive to burial, disposal at an approved landfill
site is the most viable method of disposal. All situations
involving mass mortalities will be coordinated through
MB Conservation + Water Stewardship.
11.0 Project Site Description: Land Use Planning Considerations
For assistance contact your Community and Regional Planning Regional Office.

#### Development Plan and Zoning Bylaw

The Planning District or Municipal Development Plan and Zoning By-law adopted under *The Planning Act*, set policy and regulations for the use and development of land. A proposed livestock operation must comply with the requirements of this bylaw. In the absence of a By-law, the <u>Provincial Planning Regulation</u> under <u>The Planning Act</u> applies.

#### Development Plan

Every Development Plan must contain a livestock operation policy (LOP) that identifies areas where new or expanded livestock operations may be allowed. It must also set general standards for the location and setback of livestock operations. Identifying the Development Plan's land use designation and policies (for the planning district or municipality that affect the site) will help confirm the project site's compliance. The Development Plan designations for the spread fields (if something other than agricultural) will indicate the potential loss of the fields in the future due to possible development.

Name of Planning District	Grey- St. Claude Planning District	Dev. Plan
Development Plan by-law number	2/99	
Land use designation of project site	AG - Agricultural General	
Livestock operation policies – quote supportive policy numbers	1.3.1	
Other Development Plan policies – quote supportive policy numbers	1.3.6	
Non-supportive Development Plan policies		

The Developmen	t Plan livestoc	k operation	policies sup	port the size an	d location of the
proposed operation.	Subject -	to Cond	ltional i	Ise Hearing	}

The Development Plan designations support the long term use of the proposed spread fields.

#### Zoning By-law

Identifying the zoning for the project site, the proposed spread fields and the related zoning provisions, helps determine the project's compliance and the minimum separation distances needed between the operation and property boundaries and other natural features and land uses. The zoning bylaw contains specific regulations that govern location and setback of livestock operations.

What are the minimum project site requirements stated in the Zoning By-law?

	Project site dimensions	Minimum zoning bylaw site requirements
Minimum site area	160 ac,	80 ac
Minimum site width	2640 ft	1000 ft
Minimum front yard	406 ft	125 ft
Minimum side and rear yard	1010 ft	25 ft

If any project (front, side or rear) yard site dimensions are less than the Zoning By-law minimum, a Variation Order from the Municipality will be required.

#### Separation Distances (Zoning Bylaw or Provincial Planning Regulation)

Using the proposed size of the operation (see <u>Animal Units Calculation Table</u>) and the type of animal housing and manure storage facility, complete the following table.

#### Indicate the distance from:

- a. earthen manure storage facility or b. feedlot and
- c. animal confinement facility or d. non-earthen manure storage facility...

to the following land use features (if applicable)	Indicate r separation required i zoning by Provincial Regulation (Check ap box(es)	distance n the law or Planning	If land use feat separation dista	ure is less than the minimum ance	
	☐ a. ☐ b.	☑ c. ☑ d.	Provide actual distance	Provide location or name of feature (e.g. Red River)	
Residence/ dwelling		328 A	4540 ft	Nm8-8-6m	
Designated area (non-agricultural)	1320 ft		11,140 Ft	Нациоод, ИВ	
Surface water		328 A	406 ft	east municipal ditch	
Surface watercourse		328ft	406 ft	east municipal ditch	
Crown land		NA		7 None in immediate	
Wildlife Management Area		N/A		area	
Livestock operation	Livestock		≈ 5780 ft	SW4-8-6W	
Other significant features/land uses					

If Crown Lands are located within one mile, provide coding. Information can be obtained from the Interdepartmental Operations Crown Lands Plans through the <u>Manitoba</u> <u>Legislative Library</u> or contact Manitoba Conservation and Water Stewardship at (204) 619-2230.

If undesignated Crown Lands will be used for manure spreading purposes, including the laying of pipe or clearing activity, and use will require a Crown Lands General Permit disposition for the use and access of the subject Crown Lands Parcel(s).

In cases where minimum separation distances are not stated in the Zoning By-law or Development Plan, the minimum separation distances in the <u>Provincial Planning</u> <u>Regulation</u> apply.

Note: If any separation distance is less than the zoning by-law minimum, a Variation Order will be required from the Municipality.

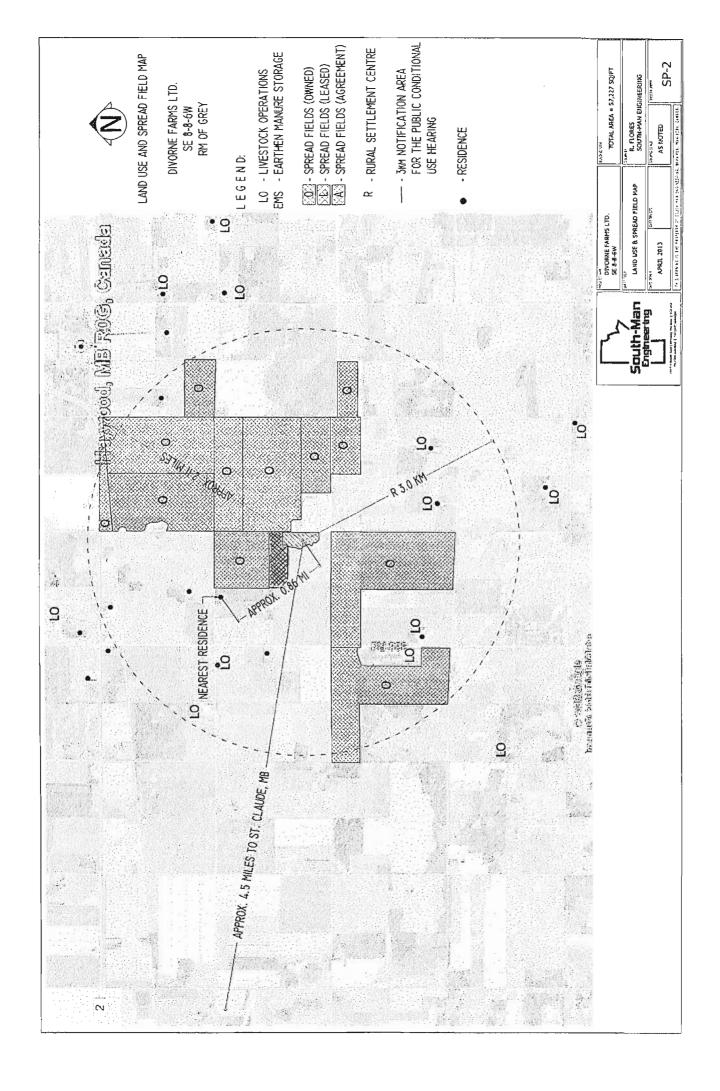
## Setback Distances (Livestock Manure and Mortalities Management Regulation) Using the following table to indicate the distance from:

Feature	Structure	Minimum setback distance required	Provide actual distance (m)	Provide location or name of feature (e.g. Red River)
	Manure storage facility	100 m	186m	ditch
Surface watercourse,	Field storage	100 m	>100m	ditch, wetland
sinkhole, spring, or well	Composing site	100 m	186m	ditch
	Confined livestock area	100 m	121.95m	proposed barn
	Manure storage facility	100 m	186m	east line
Property Line	Composing site	100 m	186m	east line
	Confined livestock area	100 m	121.95m	east line Proposed barn.

If any	setback	distance	es have n	ot been	met,	please	provide	explana	ition belo	w:
$\Omega$	colh	مماءد	4cm							

7.115	THE DUE ICT	mex.			

Show: a) location of the project site, location and ownership of spread fields and b) land uses and significant features including dwellings (i) within a 1 mile radius of the project site and (ii) within and adjacent to each spread field on a Land Use & Spread Field Map. (See <u>Land Use & Spread Field Map Example</u>).



#### 12.0 Truck Haul Routes and Access Points

One consideration with new or expanding livestock operations is the potential impact on existing public roads (municipal and provincial), access and the need for improvements or mitigation. Complete the following table.

	Num	d Average ber of ay accessing		require a Ti	PTH/PR onto site will a Left or Right Hand Turn to check one  Access onto PTH/PI mainly require a Left Turn Please check			Left or F um	eft or Right Hand n	
Vehicle T <del>y</del> pe	Prov <del>i</del> ncial Trunk Highway	Provincial Road (PR)	Provincial Trunk Highway (PTH)		Provincial Road (PR)		Provincial Trunk Highway (PTH)		Provincial Road (PR)	
	(PTH)		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
Truck	1		<b>V</b>					<b>V</b>		
Tractor Trailer	1		<b>V</b>					<b>√</b>		
Other - Specify Passisenger veh.	6			<b>V</b>			$\checkmark$			

Identify what roads and access points will be used for the proposed operation? (See <u>Truck Haul Routes and Access Points Map</u> for an example).

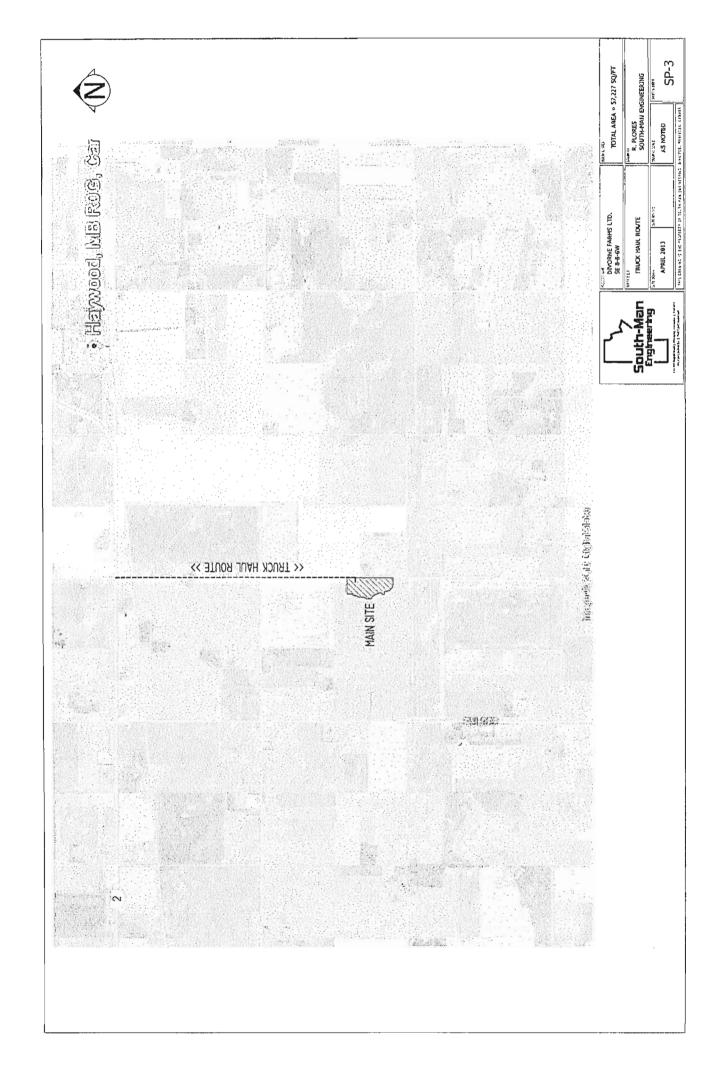
For help	with	mapping,	contact	your	Community	and	Regional	<b>Planning</b>	Regional
Office.									

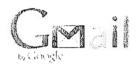
_	,				
V	Truck Ha	ul Routes	and Access	: Points Ma	p attached
-	* * * * * * * * * * * * * * * * * * * *				P

#### 13.0 Conservation Data Centre Report

A Conservation Data Centre Report must be requested and the response attached to this site assessment. The request may be submitted electronically at: www.gov.mb.ca/conservation/cdc

Were rare species	identified	in the	Conservation	Data Cer	tre Report?
☐ Yes ☑ No					
√ No					





#### Peter Grieger <peter.southmaneng@gmail.com>

#### Divorne Farms Ltd.

Friesen, Chris (CWS) < Chris.Friesen@gov.mb.ca>
To: "peter@southmaneng.com" < peter@southmaneng.com>

Thu, Aug 8, 2013 at 8:36 AM

Peter

Thank you for your information request. I completed a search of the Manitoba Conservation Data Centre's rare species database and found no occurrences at this time for your area of interest.

The information provided in this letter is based on existing data known to the Manitoba Conservation Data Centre at the time of the request. These data are dependent on the research and observations of CDC staff and others who have shared their data, and reflect our current state of knowledge. An absence of data in any particular geographic area does not necessarily mean that species or ecological communities of concern are not present; in many areas, comprehensive surveys have never been completed. Therefore, this information should be regarded neither as a final statement on the occurrence of any species of concern, nor as a substitute for on-site surveys for species as part of environmental assessments.

Because the Manitoba CDC's Biotics database is continually updated and because information requests are evaluated by type of action, any given response is only appropriate for its respective request. Please contact the Manitoba CDC for an update on this natural heritage information if more than six months pass before it is utilized.

Third party requests for products wholly or partially derived from Biotics must be approved by the Manitoba CDC before information is released. Once approved, the primary user will identify the Manitoba CDC as data contributors on any map or publication using Biotics data, as follows as: Data developed by the Manitoba Conservation Data Centre; Wildlife and Ecosystem Protection Branch, Manitoba Conservation.

This letter is for information purposes only - it does not constitute consent or approval of the proposed project or activity, nor does it negate the need for any permits or approvals required by the Province of Manitoba.

We would be interested in receiving a copy of the results of any field surveys that you may undertake, to update our database with the most current knowledge of the area.

If you have any questions or require further information please contact me directly at (204) 945-7747.

Chris Friesen
Biodiversity Information Manager
Manitoba Conservation Data Centre
204-945-7747
chris.friesen@gov.mb.ca
http://www.gov.mb.ca/conservation/cdc/

----Original Message----

From:

Sent: August-07-13 12:33 AM To: Friesen, Chris (CWS)

Subject: WWW Form Submission

Below is the result of your feedback form. It was submitted by WWW Information Request () on Wednesday, August 7, 2013 at 00:32:39

DocumentID: Manitoba\_Conservation

Project Title: Divorne Farms Ltd.

Date Needed: 2013/08/08

Name: Peter Grieger

Company/Organization: South-Man Engineering

Address: Unit 15 - 1599 Dugald Road

City: Winnipeg

Province/State: Manitoba

Phone: (204) 223-8289

Fax (204) 668-9652

Email: peter@southmaneng.com

Project Description: Proposed project is to expand an existing livestock operation situated on SE 8-8-6W in the RM of Grey. The information requested will be used by the Provincial Technical Review Committee to assess the impacts of the proposal on the environment and adjacent land uses.

Information Requested: A Conservation Data Centre Report is required.

Format Requested: Microsoft Word Document sent by email is preferred.

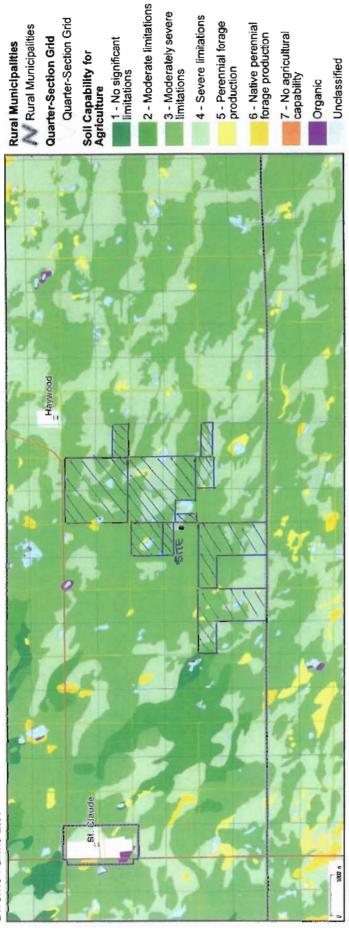
Location: SE8-8-6W in the RM of Grey. The proposed development site and associated manure application landbase is situated with the La Salle River Watershed.

action: Submit

### 14.0 Supporting Documents

Check off the supporting documents included in this submission:							
Contact Information and Privacy and Publication Notice							
Location Map (shows proposed project within rural municipality)							
Animal Units Calculation Table							
Water Requirement Calculation Table							
Manure Production Calculator Table							
Existing and Proposed Manure Storage Facility Dimensions Tables							
(if applicable)							
Manure Application Field Characteristics Table							
✓ Crop Rotation Table							
Recent manure application field soil sample results (Nitrate- N lb/ac at 0-6 and 6-24 inch depths, Phosphorus – ppm at 0-6 inch depth)							
✓ Land Base Calculator							
Project Site Plan (proposed operation showing current and proposed structures)							
Land Use and Spread Field Map (location and ownership of operation, spread fields, location and distance to non-agricultural uses, development plan designation, zoning for project site and spread fields)							
Truck Haul Routes and Access Points Map (with routes and access points on municipal/provincial roads and/or provincial trunk highways)							
Response from the Conservation Data Centre							
Other, please specify:							
15.0 Declaration							
I do hereby verify that the information contained in the Site Assessment and all required Supporting Documents is accurate and complete to my knowledge							
Date:							
Signature:							

# AgriMap - Manitoba Divorne Farms Ltd.



O Her Majesty the Queen in Right of Canada 2013, Agriculture and Agri-Food Canada.

Page 1 of 3 Print Date: 2013-08-09

