

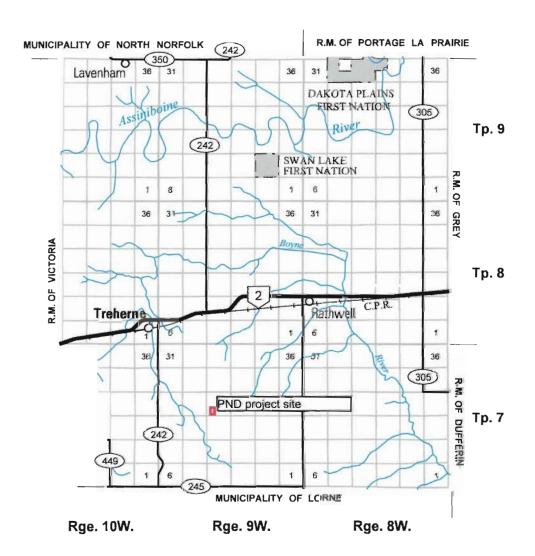
MUNICIPALITY OF NORFOLK TREHERNE



PROVINCE OF MANITOBA
INFRASTRUCTURE
HIGHWAY PLANNING AND DESIGN BRANCH
GEOGRAPHIC & RECORDS MANAGEMENT SECTION
WINNIPEG
JANUARY 1, 2015

LEGEND

PROVINCIAL TRUNK HIGHWAYS 2	ACCESS ROADS
PROVINCIAL ROADS242	RAILWAYS



Animal Units Calculator

			Current	Operation	Proposed	Operation
A	В	c	D	E	F	G
Operation Type	Animal Categories	Animal Units per Head	Current Number of Animals ¹	Current Animal Units	Proposed Number of Animals ²	Proposed Number of Animal Units
	Mature cows (lactating and dry) including associated livestock	2				
	Mature cows (lactating and dry)	1.35		- 1		-12 F 2 - 1
	Heifers (0 to 3 months)	0.16		-		
Dairy 3	Heifers (4 to 13 months)	0.41		-		
	Heifers (> 13 months)	0.87		- 1		
	Bulls	1,35		-		
	Veal calves	0.13		-		
	Beef cows including associated livestock	1.25		-		
D d	Backgrounder	0.5		-		
Beef	Summer pasture / replacement heifers	0.625		-		
	Feeder cattle	0.769		-		
Pigs	Sows - farrow to finish (234-254 lbs)	1,25		-		1
	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		- 1		
	Growers / Finishers (51-249 lbs)	0.143	10,000	1,430	13,000	1,1
	Broilers	0.005		-		
Chickens	Roasters	0.01		- 1		
	Layers	0.0083		-		
	Pullets	0.0033		- 1		
	Broiler breeder pullets	0.0033				
	Broiler breeder hens	0.01		-		
	Broilers	0.01		-		
Turkeys	Heavy Toms			- 1		
	Heavy Hens					
Heavy Hens Horses Mares		1.333		- 1		
Sheep	Ewes	0.2				
Stieeh	Feeder lambs	0.063				
Other Livestock	Type:			- 1		
Other Fivestock	Type:	- Jan				
			Total Current	1,430	Total Proposed:	1,

Footnotes:

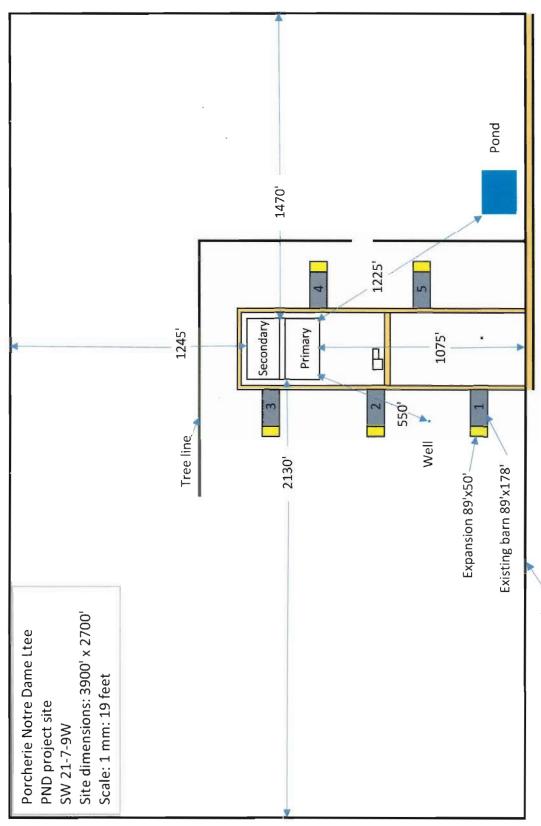
For all other livestock or operation types please inquire with the Manitoba Agriculture Contacts



¹ Enter the current number of animals on the farm based on the operation's capacity (animal places) or previous Conditional Use Approval.

² Enter the total number of animals associated with the operation post construction or expansion.

³ There are 2 methods for calculating animal units for dairy [Farm Practices Guidelines for Dairy Producers in Manitoba, 1995). You can enter the total number of mature cows in the milking herd under the "Mature cows (lactating and dry) including associated livestock" category and the animal units will be calculated by multiplying this number by 2. This calculation assumes 85 lactating, 15 dry, 12 heifers (0 to 3 months), 36 heifers (4 to 13 months) and 50 heifers (> 13 months) for an operation with 100 mature cows. "Associated livestock" includes all of the helfer calves and replacement heifers. Alternatively, you can enter animal numbers in the individual categories (mature cows, heifers (0 to 3 months), heifers (4 to 13 months) and heifers (> 13 months) and they will be summed at the bottom of the table. Bulls and veal calves are always calculated separately.



Property line

Road 39 N





Well PID:

121641

Location: SW21-7-9W

UTMX:526258.1 UTMY:5492024.8 XY Accuracy:No Accuracy

Owner:

NOTRE DAME DELOURDES

Driller:

UNKNOWN

Well Name:

TH #5

Date Completed: 2001 Oct 26

Well Use:

TEST WELL

Well Status:

ACTIVE

Aquifer: DRY WELL

REMARKS:

LOCATED NW OF WELL #4. MAP ON FILE.

WELL LOG (Imperial units)

From To(ft.) Log

0.0 0.3 TOPSOIL

0.3 7 CLAY SOFT LIGHT BROWN SANDY TRACE OF SILT PEBBLES

7.0 13.5 CLAY SOFT MOIST BROWN SANDY SILT TRACE OF PEBBLES

13.5 18 CLAY FIRM DARK BROWN SANDY TRACE OF SILT AND GRAVEL

CLAY STIFF DRY DARK BROWN SANDY SILT AND SHALE PARTICLES 18.0 23

CLAY FIRM GREY SILTY SANDY SHALE SATURATED 23.0

WELL CONSTRUCTION

2017 Jan 20

WELL INFORMATION REPORT



Well PID:

119403

Location:

SW21-7-9W

UTMX:526258.1 UTMY:5492024.8 XY Accuracy:No Accuracy

Owner:

PORCHERIE LAC DU ONZE LTEE.

Driller:

Watkins & Argue Construction Co.

Well Name:

Date Completed: 2002 May 07

Well Use:

PRODUCTION

WATER USE:

Livestock

Well Status:

ACTIVE

Aquifer:

SHALE

REMARKS:

WELL LOCATED 150' SOUTH OF BARN. CHLORINE, FE=1.5, HARD=28,

EC=460

WELL LOG (Imperial units)

From To(ft.) Log

0.0 BROWN TILL

30.0 35 GRAVEL

35.0 47 BROWN TILL

47.0 70 GREY TILL

70.0 80 FINE SAND LAYERS

LAYERS OF SAND AND CLAY 80.0 100

SHALE GRAVEL

100.0 112

ODANAH SHALE 112.0 120

WELL CONSTRUCTION

Inside Outside Slot

From To(ft) Const.Method Dia.(in) Dia.(in) Size(in) Type Material

0.0 102.0 CASING PVC 5.0

102.0 112.0 PERFORATIONS 5.0 0.015 S. S.

97.0 120.0 GRAVEL PACK NO. 20-40 SILICA S.

CASING GROUT 3/8 IN. BENTONITE 80.0

Top of Casing: 2.0 ft above ground

PUMPING TEST

Date : 2002 May 07 Pumping Imp. gallons/minute

Water level before test : 39.0 ft below ground

Water level at end of test :

Test duration:

Test Zone: from 102.0 ft to 112.0 ft



Well PID:

121636

Location: SW21-7-9W

UTMX:526258.1 UTMY:5492024.8 XY Accuracy:No Accuracy

Owner:

NOTRE DAME DELOURDES

Driller:

UNKNOWN

Well Name:

TH #1

Date Completed: 2001 Oct 26

Well Use:

TEST WELL

Well Status: ACTIVE

Aquifer: DRY WELL

REMARKS:

LOCATED 200M WEST OF BARN 3. MAP ON FILE.

WELL LOG (Imperial units)

From	To(ft.)	Log
0.0	1	TOPSOIL
1.0	7.5	CLAY DRY BROWN WITH SAND AND SILT
7.5	10	CLAY GREY BROWN WITH SAND AND SILT
10.0	13	CLAY, DRY, GREY BROWN WITH SAND AND SILT SOME PEBBLES
		AND SHALE PIECES
13.0	14	CLAY MOIST BROWN WITH SAND AND SILT
14.0	17	SAND AND GRAVEL SATURATED
17.0	18	CLAY SOFT MOIST BROWN WITH SAND AND SILT
18.0	20	SAND AND GRAVEL SATURATED

WELL CONSTRUCTION



Well PID: 121638

Location: SW21-7-9W

UTMX:526258.1 UTMY:5492024.8 XY Accuracy:No Accuracy

Owner: NOTRE DAME DELOURDES

Driller: UNKNOWN Well Name: TH #2

Date Completed: 2001 Oct 26 Well Use: TEST WELL

Well Status: ACTIVE Aquifer: DRY WELL

REMARKS:

LOCATED NW CORNER OF BARN 3. MAP ON FILE. SOIL SAMPLED AT 9-10' GRAVEL 0.9%, SAND 37.2%, SILT 41.3%, CLAY 20.6%. AT 19-20' GRAVEL 0.6%, SAND 39.9%, SILT 35.9%, CLAY 23.6%.

WELL LOG (Imperial units)

From	To(ft.)	Log
0.0	1	TOPSOIL DARK BROWN WITH CLAY
1.0	10	CLAY DRY FIRM LIGHT BROWN SAND AND SILT, TRACE OF PEBBLES
10.0	17	CLAY DRY SOFT BROWN SAND AND SILT
17.0	20	CLAY TILL STIFF BLUE GREY SANDY SILT PEBBLES
20.0	24	CLAY SOFT MOIST BROWN SILTY, SOME SAND
24.0	27	CLAY SOFT MOIST BROWN SANDY SOME SILT
27.0	30	CLAY SOFT SATURATED BROWN SANDY SOME SILT

WELL CONSTRUCTION



Well PID:

121639

Location: SW21-7-9W

UTMX:526258.1 UTMY:5492024.8 XY Accuracy:No Accuracy

Owner:

NOTRE DAME DELOURDES

Driller:

UNKNOWN

TH #3

Well Name:

Date Completed: 2001 Oct 26

Well Use:

TEST WELL

Well Status: ACTIVE

Aquifer: DRY WELL

REMARKS:

LOCATED ON NORTH SIDE OF EARTHEN MANURE STORAGE FACILITY. MAP ON FILE. SOIL SAMPLED AT 9-10' GRAVEL 0.6%, SAND 34.6%, SILT 48.3%, CLAY 16.5%. AT 24-25' GRAVEL 2.4%, SAND 43.9%, SILT 33.2%, CLAY 20.5%.

WELL LOG (Imperial units)

From	To(ft.)	Log
0.0	0.8	DARK BROWN TOPSOIL
0.8	4	SAND AND GRAVEL, DRY, LIGHT BROWN
4.0	10	CLAY SOFT LIGHT BROWN SILTY SAND
10.0	12	CLAY SOFT DAMP LIGHT BROWN SILTY SANDY TRACE OF PEBBLES
12.0	17	CLAY SOFT DAMP BROWN SILTY SANDY TRACE OF PEBBLES
17.0	25	CLAY SOFT DRY BROWN SILTY SAND, TRACE OF PEBBLES
25.0	28	CLAY SOFT DRY DARK BROWN SILTY SAND
28.0	30	CLAY SOFT DRY LIGHT BROWN SILTY SAND

WELL CONSTRUCTION

2017 Jan 20

WELL INFORMATION REPORT



Well PID:

121647

Location: SW21-7-9W

UTMX:526258.1 UTMY:5492024.8 XY Accuracy:No Accuracy

Owner:

NOTRE DAME DELOURDES

Driller:

UNKNOWN

Well Name:

TH #10

Date Completed: 2001 Oct 26

Well Use:

TEST WELL

Well Status: ACTIVE

Aquifer: DRY WELL

REMARKS:

LOCATED E SIDE OF EARTHEN MANURE STORAGE FACILITY. MAP ON FILE. SOIL SAMPLED AT 19-20' GRAVEL 6.2%, SAND 32.5%, SILT 39.9%, CLAY 21.4%.

WELL LOG (Imperial units)

From To(ft.) Log

0.5 0.0

TOPSOIL

0.5 4.5

SAND GRAVEL SILT LAYER DRY LIGHT BROWN

4.5 30 CLAY TILL SOFT DRY BROWN WITH SAND SILT TRACE OF GRAVEL

WELL CONSTRUCTION



Well PID: 121646

Location: SW21-7-9W

UTMX:526258.1 UTMY:5492024.8 XY Accuracy:No Accuracy

Owner: NOTRE DAME DELOURDES

Driller: UNKNOWN
Well Name: TH #9

Date Completed: 2001 Oct 26 Well Use: TEST WELL

Well Status: ACTIVE Aquifer: DRY WELL

REMARKS:

LOCATED NE CORNER OF EARTHEN MANURE STORAGE FACILITY. MAP ON FILE. SOIL SAMPLED AT 9-10' GRAVEL 5.5%, SAND 24.1%, SILT 60%, CLAY 20.4%.

WELL LOG (Imperial units)

From	To(ft.)	Log
0.0	0.3	TOPSOIL
0.3	7.5	SAND, GRAVEL, SILT WITH SOME CLAY DRY LIGHT BROWN
7.5	11	CLAY TILL SOFT DRY LIGHT BROWN SILTY SOME SAND TRACE
		GRAVEL
11.0	20	CLAY TILL SOFT DAMP BROWN WITH SILT AND SAND TRACE
		OF GRAVEL
20.0	30	CLAY TILL VERY SOFT DAMP BROWN SILTY SAND POCKETS,
		TRACE OF GRAVEL

WELL CONSTRUCTION

2017 Jan 20

WELL INFORMATION REPORT



Well PID:

121645

Location: SW21-7-9W

UTMX:526258.1 UTMY:5492024.8 XY Accuracy:No Accuracy

Owner:

NOTRE DAME DELOURDES

Driller:

UNKNOWN

Well Name:

TH #8

Date Completed: 2001 Oct 26

Well Use:

TEST WELL

Well Status: ACTIVE

Aquifer: DRY WELL

REMARKS:

LOCATED WEST SIDE OF EARTHEN MANURE STORAGE FACILITY. MAP ON FILE. SOIL SAMPLED AT 14-15' GRAVEL 0.8%, SAND 23.8%, SILT 46.4%, CLAY 28.9%. AT 29-30' GRAVEL 0.0%, SAND 0.0%, SILT 78%, CLAY 22%

WELL LOG (Imperial units)

From	TΟ	(ft.)	Log

0.0 0.3 TOPSOIL

0.3 2.5 SAND AND GRAVEL

2.5 8.5 CLAY SOFT DRY LIGHT BROWN SILTY SAND

8.5 CLAY FIRM DRY BROWN SILTY SAND TRACE OF GRAVEL

CLAY STIFF BROWN SANDY SILT TRACE OF GRAVEL 16.0 28

28.0 30 CLAY SOFT MOIST BROWN SILTY

WELL CONSTRUCTION

2017 Jan 20

WELL INFORMATION REPORT



Well PID: 121643

Location: SW21-7-9W

UTMX:526258.1 UTMY:5492024.8 XY Accuracy:No Accuracy

Owner: NOTRE DAME DELOURDES

Driller: UNKNOWN Well Name: TH 7

Date Completed: 2001 Oct 26
Well Use: TEST WELL

Well Status: ACTIVE Aquifer: DRY WELL

REMARKS:

CONTINUATION OF TH 6.

WELL LOG (Imperial units)

From To(ft.) Log

0.0 15 DRILLED QUICKLY, LOGGED IN TH 6

15.0 22 CLAY SOFT MOIST DARK GREY SANDY SILTY TRACE OF GRAVEL

AND SHALE

22.0 30 CLAY SOFT MOIST DARK GREY SANDY SILTY TRACE OF GRAVEL

WELL CONSTRUCTION



Well PID: 121642

Location: SW21-7-9W

UTMX:526258.1 UTMY:5492024.8 XY Accuracy:No Accuracy

Owner: NOTRE DAME DELOURDES

Driller: UNKNOWN Well Name: TH 6

Date Completed: 2001 Oct 26 Well Use: TEST WELL

Well Status: ACTIVE Aquifer: DRY WELL

REMARKS:

LOCATED E OF W SHELTERBELT. MAP ON FILE. SOIL SAMPLED AT 4-5' GRAVEL 4.9%, SAND 40.6%, SILT 38%, CLAY 17.1%.

WELL LOG (Imperial units)

From	To(ft.)	Log							
0.0	0.5	TOPSOIL							
0.5	9	CLAY SOFT	MOIST	BROWN	SAND	Y SILT	AND	GRA	ÆL
9.0	15	CLAY SOFT	MOIST	DARK	GREY	SANDY	SILT	AND	GRAVEL
15.0	20	CLAY SOFT	MOIST	DARK	GREY	SANDY	SILT	AND	GRAVEL

WELL CONSTRUCTION

Water Requirement Calculation Table

Livestock	Number	IG/day per animal in winter	IG/day per animal in summer	IG/day (Imperial gallons per day)
Beef/Dairy/Bison				
Feeder/heifer/steer (600 lb.)		5	9	-
Feeder (900 lb.)		7	12	-
Feeder (1250 lb.)		10	15	
Cow/calf pair		12	15	-
Dry cow		10	12	-
Milking cow		25	30	-
Bison		8	10	
Horses	The second	The State of the Local Division in the Local		
Horses		8	11	
Hogs				THE PERSON NAMED IN
Sow (Farrow/wean)		6.5		-
Dry Sow/Boar	J	4	-	
Feeder	13,000	;	39,000	
Nursery (33 lb.)		2	-	
Chickens	THE WAY A SA		CALL STREET	
Broilers		0.0)35	-
Roasters/Pullets			04	-
Layers)55	-
Breeders		0.	07	-
Turkeys		AND DESCRIPTION OF THE PARTY OF		
Turkey Growers		0.	13	-
Turkey Heavies	All I was to and	0.	16	-
Sheep/Goats	THE THE PARTY			
Sheep/Goats			2	
Ewes/Does			3	
Lambs/Kids (90 lb.)	n====	1	.6	7 <u>-</u> -
		TOTAL	(IG/day)	39,000

For beet, 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.

Enter this number on page 7 of Application Form.

Other consumption values:

Normal household consumption: 40-55 IG/day per person or (180-250 I/day/person)

Hydrant flow: 10 imperial GPM (45 l/min)

U	nit Conversion	ns
Total per day	Total per year	Unit
39,000	14,235,000	IG
177,294	64,712,310	litres
0.177	65	cubic
		decametres
		(dam³)

Enter this number on page 7 of Application Form.

Conversion Factor: 1 IGPM = 4.546 I/m

Animal Type (A) Animal Sub-type In associated livestock) Bard associated livestock) I cose Housing Miking Parlour Manure and Washwater Beef cows including associated livestock Backgrounder (20 day) Summer pasture / replacement heilers Feeder cattle Sows - farrow to finish (234 - 254 lbs) Sows - farrow to nursery (51 lbs) Veanings, Nursery (11 - 51 lbs) Veanings, Nursery (11 - 51 lbs) Grower / Finisher (51 - 249 lbs) Grower / Finisher (51 - 249 lbs) Chickens Erollers - floor ⁶ Broiler breeder pullets ⁶ Roasters - floor ⁷ Layers - cage ⁸ Pullets - agold pack ⁹ Pullets - solid pack ⁹		Daily M.	Daily Manure Production					Total Manure Volume
May re-	References (C)	Manure Type (D)	Default Manure Production (ft³/animal/day)	Operation Manure Production (ft ³ /animal/day)	² (Days) (G)	² (Days) (H) (G) (H)	Total Manure Volume (ft³) (FxGxH)	for Semi-Solid and Liquid Manure (Imp Gat)
		Semi-Solid 5	3.5					0,0
		Solid	3.4				2	
		Liquid ⁵	3.5					0.0
	Table 6, pg 59.	(D	3.6					0.0
	1995		3.5					
		Liquid ⁸	3.6					0,0
		Solid	3.0			The state of the s		
	ashwater	Liquid	0.5	The second secon				
	d livestock	Solid	1.2					The second second
	pg 117, FPGs for		0.73				The second secon	
			0.85					
		Solid	1.1					
	254 lbs)	Liquid	2.3					0.0
	1 lbs) MAFRI website.	Liquid	0.8					0.0
		Liquid	-1					0.0
		Llquid	0.1					0.0
Broilers – flo Broiler breed Broiler breed Broiler breed Roasters – flo Layers – flo Layers – soi Pullets – soi Pullets – soi Pullets – soi Broilers ⁸ Broilers ⁸)	Liquid	0.25	0.17	400.00	13,000	884,000.00	5,507,320.0
Broilers - flo Broiler breed Broiler breed Broiler breed Roasters - flo Layers - cas Layers - soi Lyers - soi Pullets - cap Pullets - floo Pullets - soi			Yearly Manure Production	uction			Total Manua	Total Manure Volume
	on.	Default Man (ft³/year	Default Manure Production (ft ³ /year/bird space)	Operation Manure Production ¹ (ft ³ /year/bird space)	Production Period ² (Days)	Number of Birds 3 (Capacity)	Volume (ft³) (F/365xGxH)	for Semi-Solid and Liquid Manure (Imp Gal)
			1.23				1	# H
			2.3					
			0.99					
			1.16					
	Table 3, pg 85,		2,33	The same of the sa			-	0.0
	2000		1.68					
			0.71	Total Control of the				0,0
			0.75					The second secon
	Table 3, pg 85.		2.83					
	FPGs for Poultry		5.58					
Heavy hens 6	2000		3.32					

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

Instructions and footnotes:

¹ ENTER the manure production estimate for your operation. If no estimate is available, use the default value provided in column E. References for default daily and yearly manure production are provided in column C.

²⁵⁰ ENTER the number of days worth of manure that will be produced. For earthen manure storage facilities the minimum storage requirement is 400 days. For steel and concrete manure storage facilities the minimum storage requirement is 250 as a concrete manure storage facilities the minimum storage requirement is 400 days.

³ENTER the total number of animals or birds that the operation can hold (e.g. barn or feedlot capacity).

⁵ Default manure production estimates for semi-solid and liquid delry manure include manure and washwater from the milking parlour. 2 inches of wood shavings or 4 inches of straw placed on floor. Manure and litter removed from barn at 25% moisture content, with a density of 20 lb/ft Milking cows includes all lactating and dry cows.

⁷ One-third litter floor, two-thirds slatted floor. Manure and litter removed from barn at 40% moisture content, with a density of 25 lb/ft³

⁸ Manure removed from barn at 90% moisture content with a density of 59 lb/ft³

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:

	Exis	0	anure Dimen	Storage l sions	Faci	lity	Storage
CELL	Width	Length	Depth	Height	Slope	(H:L)	Capacity (days)
CELL	VV ICITI	Lengui	Бериг	(Above Grade)	Inside	Outside	
Primary	224 ft	64 ft	16 ft	5 ft	3:1	5:1	Total for both cells = 400 days
	230 ft	131	15	5	3:1	5:1	
Secondary							
	ft	ft	ft	ft	_		
Tertiary							
Circular	Tank	Diameter	Height	Depth (Above Grade)			
		ft	ft	ft			

Permit/Registration # _______ M 561; LR -098-003



November 30, 2016

Manitoba Pork
Locally Grown, Globally Preferred.

Mr Rick Prejet
Porcherie Notre Dame Ltee
Box 40
Notre Dame de Lourdes, MB
ROG 1M0

E-mail: lacdonze@mts.net SENT BY E-MAIL Manitoba Pork Council 28 Terracon Place Winnipeg, Manitoba Canada R2J 4G7

Tel: (204) 237-7447 Fax: (204) 237-9831 www.manitobapork.com

Dear Mr Prejet:

This is CONFIRMATION that in the opinion of *Manitoba Pork*, the proposed expanded pig operation described below, appears to meet the criteria of the *Pig Production Special Pilot Project – Evaluation Protocol*, based on the information provided by the applicant.

Re: Proposal to expand five existing pig barns, Manitoba Pork File Number: 004-16/11-Porcherie Notre
Dame Ltee-Prejet

Please accept this as your confirmation letter stating that in the opinion of Manitoba Pork, your proposed pig barn, meets the criteria of the *Pig Production Special Pilot Project — Evaluation Protocol (Protocol)*. This confirmation is based upon the information you provided as outlined below. Submit this letter along with your conditional use application to the TRC review.

In accordance with the Protocol, we understand the following about your proposed new pig operation:

- That five existing pig barns are proposed to be expanded.
- 2. Owner of the pig barns: Porcherie Notre Dame Ltee.
- 3. Applicant's name, if different from owner: Rick Prejet.
- Location of proposed operation: SW 21-7-9 WPM, RM of Norfolk.
- 5. Type of operation being proposed: Expansion of an existing finisher operation.
- 6. The animals are proposed to be marketed: At a Manitoba processing plant.
- 7. Size of the proposed operation by number of AUs: 5 existing barns, currently of 2100 finisher spaces (300 AUs) each, are proposed to be expanded to 2600 spaces (372 AUs) each. The total size of the 5 existing barns is currently 1500 AUs, proposed to be expanded to 1850 AUs, for a total expansion of 360 AUs (or a 72 AU expansion per barn).
- 8. Approximate size of barns: Existing 5 barns are 90' x 178', 16,020 sq ft, (27m x 54m, 1500 sq m) each. They will be expanded by approximately 4500 sq ft (418 sq m) each.

- 9. Type of manure storage facility being proposed: Existing 2-cell earthen manure storage.
- Size of manure storage facility: Existing manure storage of 6 million gallons has sufficient capacity (over 400 days) to accommodate the expected additional pigs without expanding the lagoon.
- 11. Type of odour control measures being proposed: Shelter belts and significant distance from neighbouring residences.

It is understood that you will comply with the attached *Protocol* in the ongoing management of your operation, including that:

- all manure from your operation will be injected and/or incorporated within 48 hours of application,
- you will require long term access to manure spread fields at a 1x phosphorous application rate (even though you do not have to apply the manure at that rate) — and all of these fields must be identified as a part of your full application process,
- · all manure spread fields will be permanently maintained below 60 ppm, and
- other requirements as outlined in the Protocol.

If you make any significant changes to your proposed project during the application process which alters any of the information as stated above, or alters any of the numbers by 10% or more, please notify our office.

As we understand it, your next step is to apply for a Conditional Use permit from the municipality which will include a Technical Review Committee (TRC) process — you will need considerably more detailed information for that process. You may wish to contact **Don Malinowski**, Technical Review Coordinator (204-945-8353), for the requirements of the TRC review — or you can go to their website: gov.mb.ca/ia/livestock/index. For additional information, see our booklet 'Building a Pig Barn in Manitoba-A Step by Step Guide', on our website (www.manitobapork.com) which outlines the main steps of what is required to build a new barn.

Yours sincerely,

Andrew Dickson General Manager

MANURE APPLICATION FIELD CHARACTERISTICS TABLE



	20	19	18	17	16	15	14	ప	12	===	ó	و	۵	7	တ	5	4	w	2		FleId	Γ
	SE 15-7-9W	NW 15-7-9W	SW 15-7-9W	NE 147-9W	NW 147-9W	SE 147-9W	SW 147-9W	NE 11-7-9W	NW 11-7-9W	SE 11-7-9W	SW 11-7-9W	NE 10-7-9W	W 1/2 10-7-9W	SE 10.7-9W	NE 9.7.9W	SE 9-7-9W	SE 8-7-9 W	N 1/2 5-7-9W	4-7-9W	WB-7-C WS	Legal Description	A
	Nodolk Treheme	Nariolk Treheme	Norfolk Treheme	Norfolk Treherne	Norfolk Treheme	Norfolk Treheme	Norfolk Treheme	Norfolk Trehame	Norfolk Treheme	Norfolk Treheme	Norfolk Treheme	Norfolk Treheme	Nariolk Treheme	Norfolk Treheme	Nariolk Treheme	Norfolk Treheme	Norfolk Treheme	Norfolk Treheme	Norfolk Trehema	Norfolk Treheme	Rural Municipality	8
	>	×	Þ	>	Þ	×	Þ	Α	Þ	Þ	Þ	Þ	Α	Þ	×	A	>	>	A	A	OJC/U A	၀
	130	150	150	148	155	155	155	135	93	80	99	160	236	156	156	140	80	240	610	50	Total Acreage	0
Total Net Acreage for Manure Application:	Polholes					in field drain	in field drain								In field Orain						Setbacks, including features	т
	128	130	150	148	155	150	150	136	93	80	99	160	236	155	150	140	80	240	610	50	Net Acreage for Manure Application	F
	21	27, 37	ZT. 3T	31, 41	41	21, 41	27	21, 31	21	47	41	21	2T. 3M,4T	27, 47	3M	2T, 3M	2T, 3M	2T. 5M	2T, 3M	2W	Agriculture Capability Class and Subclass	G
	21	30	25	26	18	23	42	19	23	40	14-58	17	14-63	29	જ	21	13	13	8-15	22	Soll Phosphorus (ppm Olsen P) 0-6 Inches	Ŧ
	By-Law #2016:Ag	By-Law #2016:Ag	By-Law #2016.Ag	By-Law #2016:Ag	By-Law #2016:Ag	By-Law #2016:Ag	By-Law #2016;Ag	By-Law #2016:Ag	By-Law #2016:Ag	By-Law #2016.Ag	By-Law #2016-Ag	By-Law #2016:Ag	By-Law #2016:Ag	By-Law #2018:Ag	By-Law #2016:Ag	By-Law #2016:Ag	By-Law #2018:/\g	By-Law #2016:Ag	By-Law #2016.Ag	By-Law #2016:Ag	Development Plan Designation	~
	By-Law #2452-06:Ag general	By-Law #2452-053g general	By-Law #2452-053g general	By-Law #2452-06∆g general	By-Law #2452-05.Ag general	By-Law #2452-05:hg general	By-Law #2452-053g general	6y-Law #2452-05:Ag general	By-Law #2452-05/kg general	By-Law #2452-05.Ag general	By-Law #2452-05:Ag general	Ву-Law #2452-05-Ад general	6y-Law #2452-05/Ag general	By-Law #2452-05:Ag general	By-Law #2452-05/Ag general	8y-Law #2452-05:Ag general	8y-Law #2452-05/Ag general	By-Law #2452-05:Ag general	By-Law #2452-05/Ag general	By-Law #2452-05:Ag general	Zoning	-

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Indicate the Development Plan and its by-law number in addition to the map designation for each field (ex. By-law #1/2008; AG). Indicate the Development Plan and its by-law number in addition to the zoning for each field (ex. By-law #1/2008; AG 80).	I	Enter setbacks from surface water or groundwater features that reduce the land available for menure application; include identification of type of feature (ex. 8m, Order 3 drain). Enter the net screage available for manure application for the percel after taking into account setbacks and excluding Class 8, 7 and unimproved organic soils.	Crown lands that are under a spread agreement with the producer that holds the agricultural Crown land lease). Enter the total acreage for the parcel.	Identify the Rural Municipality in which the parcel is located. Indicate how the land has been secured for manure application: O = Own / C-Crown / L = Lease / A = Agreement. Multiple designations may be used as appropriate (ex. C/A for	 Enter the legal description for each parcel of land that will receive manure: Sec, Twp, Rge or River Lat (including parish).

MANURE APPLICATION FIELD CHARACTERISTICS TABLE



	20	19	18	17	16	15	14	3	12	<u></u>	10	9	00	7	თ	5	4	w	2	1	Field	
									SW 28-7-9W	NW 27-7-9W	SW 27-7-9W	NW 24-7-9W	SW 23-7-9	SW 22-7-9W	N 21-7-9W	S 21-7-9	N 16-7-9W	SE 16-7-9W	SW 16-7-9 W	NE 15-7-9W	Legal Description	Α
									Norfolk Treheme	Norfolk Treheme	Norfolk Trehama	NorfolkTrohome	Norfalk Treherne	NarfolkTreheme	NorfolkTreheme	Norfolk Treheme	NorfolkTreheme	Norfolk Trehema	Norfolk Treheme	NorfolkTreheme	Rurat Municipality	0
									Þ	Þ	>	А	Þ	Þ	A	A O	Þ	Þ	>	۵	0/C/L/	c
									113	80	128	145	100	110	165	240	213	107	116	150	Total Acreage	0
Total Net Acreage for Manure Application:												In field drain			In field drain	Patholes					Setbacks, including features	m
4,855									113	86	126	120	100	110	160	230	213	107	105	150	Net Acreage for Manure Application	TI
									11, 2TE, 5T	47, 5W	2W, 4T	475	4TE	3T, 3MT, 4T	1. 27. 51	37	4T, 4TE	3M, 3T	3M, 5M	आह	Agriculture Capability Class and Subclass	6
									17-34	20	22	10	23	14	25	17-39	18-44	31-46	27-50	15	Soll Phosphorus (ppm Olsen P) 0-8 inches	т
									By-law #2016: Ag	By-law #2016: Ag	By-law #2016: Ag	By-law #2016; Ag	Ву-Іа₩ #2016: Ад	Вучам #2016: Ад	By-law #2016; Ag	By-law #2016: Ag	By-law #2016; Ag	By-law #2018: Ag	By-law #2016: Ag	Gy-law #2016: Ag	Development Plan Designation	-
					10000				By-law # 2452-05 Ag general	Bγ-law # 2452-05 Ag general	By-law # 2452-05 Ag general	8y-law # 2452-05 Ag general	8y-law # 2452-06 Ag general	By-law # 2452-05 Ag general	By-law #2452-05 Ag general	Zoning						

- آ آ	ερππο οπ⊁	
Indicate the Development Plan and its by-law number in addition to the map designation for each field (ex. By-law #1/2008; AG). Indicate the Zoning By-law and its by-law number in addition to the zoning for each field (ex. By-law 12/2009; AG 80).	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 / C-Crown / L – Lease / A – Agreement. Multiple designations may be used as appropriate (ex. C/A for Crown lands that are under a spread agreement with the producer that holds the agricultural Crown land lease). Enter the lotal acreage for the parcel. Enter the lotal acreage for the parcel. Enter the net acreage for the parcel. Enter the net acreage available for manure application for the parcel after taking into account setbacks and excluding Class 6, 7 and unimproved organic soils. Enter the agriculture capability class and subclass ratings for the acreage available for manure application. Provide soil test results for phosphorus in ppm Olsen P for soil samples taken at the 0-6 Inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing laboratory.	(



Soil Analysis by Agvise Laboratories (http://www.agvise.com)

Northwood: (701) 587-6010 Benson: (320) 843-4109

SUBMITTED FOR:

LA FERME PEMBINA

SOIL TEST REPORT

FIELD ID SW 3-7-9W SAMPLE ID 7 purple

FIELD NAME

COUNTY

TWP 7

RANGE 9

SECTION 3 QTRSW ACRES 50

PREV. CROP Wheat-Spring

SUBMITTED BY: PE0510

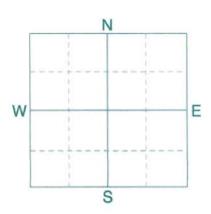
PEMBINA COOP-NOTRE DAME

NORTH AGRO 31-6-8

BOX 465

NOTRE DAME, MB

R0G 1M0



REF # 1765274 BOX # 0

LAB # NW150833

Date Sampled 10/22/2016

Date Received 10/27/2016

Date Reported 1/9/2017

Nut	trient In	The Soil	Interpretation	15	st Cro	p Choice	2	nd Cro	p Choic	e	31	d Cro	op Cho	oice
			VLow Low Med High		Can	ola-bu		Can	ola-bu			Car	nola-bu	
	0-6" 6-24"	14 lb/ac 24 lb/ac			YIELI	GOAL		YIELD	GOAL			YIEL	D GOAL	
		2715,02	******		40	BU		50	BU			60	BU	
	0-24"	38 lb/ac		SUG	GESTE	GUIDELINES	Suc	GESTED	GUIDELIN	IES	sug	GESTE	D GUIDE	LINES
Nitrate					В	and		В	and			E	Band	
				LB/A	ACRE	APPLIC ATIO	ON LB,	ACRE	APPLICA	TION	LB/A	ACRE	APPLI	CATION
Phosphorus	Olsen	22 ppm	****************	N	102		N	137			N	172		
Potassium	W E I	243 ppm	72222 VATE & ANTEL 272727	P ₂ O ₅	10	Band (Starter)*	P ₂ O ₅	10	Band (Starter		P ₂ O ₅	10		and rter)*
Chloride				K20	0		K₂O	0			K ₂ O	0		
	0-6" 6-24"		***************	CI			CI				CI			
Sulfur	0-24	42 15/40		S	15	Band	S	15	Band		S	15	Ва	and
Boron				В			В				В			
Zinc				Zn			Zn	11			Zn			
Iron				Fe			Fe				Fe		1	
Manganese Copper				Mn			Mn				Mn		1	
Magnesium				Cu			Cu				Cu			
Calcium				Mg			Mg				Mg			
Sodium				Lime	0		Lime	0			Lime	0	1	
Org.Matter		3.3 %	******				ation Exc		0/0 Ra			n (Tyr	pical Ra	nne)
Carbonate(CCE	i)			Soil	он в	uffer pH	Capac		% Ca	% Mg			% Na	% H
Sol. Salts	0-6" 6-24"	0.3 mmho/cm 0.42 mmho/cm	******	0-6" 6	0									

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 23 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 A GVISE Band guidelines will build P & K test levels to the medium range over many years.



Soil Analysis by Agvise Laboratories (http://www.agvise.com)

Northwood: (701) 587-6010 Benson: (320) 843-4109

FIELD NAME

SAMPLE ID 2 purple

COUNTY TWP

BOX 465

FIELD ID

7 RANGE 9

NE 4-7-9

SECTION QTR NE ACRES 150

SUBMITTED BY: PE0510

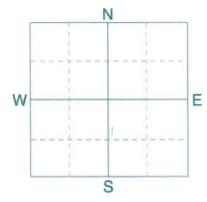
SOIL TEST REPORT

PREV. CROP Wheat-Spring

NORTH AGRO 31-6-8

NOTRE DAME, MB

PEMBINA COOP-NOTRE DAME



REF # 1703774 BOX #

LAB # NW104351

SUBMITTED FOR:

LA FERME PEMBINA

Date Sampled 10/03/2016

Date Received 10/05/2016

ROG 1M0

Date Reported 1/9/2017

Nutrient In	The Soil	Ir	nterp	retatio	on	15	t Cro	p Choic	e	2n	d Cro	p Choic	e	31	d Cr	op Cho	oice
		VLOV	Low		High		Gra	ss Seed			Gras	s Seed			Gra	ss Seed	
0-6" 6-24"	6 lb/ac 9 lb/ac		E				YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	
0-24	310/40	***					1	Season			1 3	Season			1	Season	
0-24"	15 lb/ac					SUGO	SESTE	D GUIDELIN	NES	SUGO	SESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Nitrate							E	and			В	and				Band	1000
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA	TION	LB/	ACRE	APPLI	CATION
Olsen	8 ppm	****	*****			N	85			N	85			N	85		
Potassium	206 ppm	*****	*****	*****	*****	P ₂ O ₅	33	Band	*	P2O5	33	Band	*	P2O5	33	Ва	nd *
0-24"	28 lb/ac					K20	0			K ₂ O	0			K ₂ O	0		
Chloride	Utamo- o Torre					CI		Not		CI		Not		CI		Not A	vailable
0-6" 6-24"	16 lb/ac 36 lb/ac	100000000000000000000000000000000000000	*****	*****				Availat	ole	Ci		Availab	le	Ci			
Sulfur						5	5	Band (Ti	ial)	S	5	Band (Tr	ial)	5	5	Band	(Trial)
Zinc						В				8				В			
Iron						Zn				Zn				Zn			
Manganese						Fe				Fe				Fe			
Copper	0.91 ppm	****	*****	*****		Mn				Mn				Mn			
Magnesium						Cu	0			Cu	0			Cu	0		
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	3.4 %	*****	*****						Cat	ion Excl	nange	% Ba	se Sat	uratio	n (Ty	pical Ra	nge)
Carbonate(CCE)						Soil p	H	Suffer pH		Capacit	MINISTRA	% Ca	% M		o K	% Na	% H
0-6" 6-24"	0.39 mmho/cm 0.36 mmho/cm	*****			1	0-6" 7										-	

Crop 1: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Soil Analysis by Agvise Laboratories (http://www.agvise.com)

Northwood: (701) 587-6010 Benson: (320) 843-4109

SUBMITTED FOR:

LA FERME PEMBINA

SOIL TEST REPORT

FIELD ID NW 4-7-9
SAMPLE ID 11 purple
FIELD NAME

COUNTY

TWP

7

RANGE 9

SECTION 4 QTR NW ACRES 150

PREV. CROP Grass Seed

SUBMITTED BY: PE0510

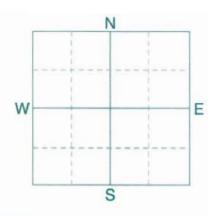
PEMBINA COOP-NOTRE DAME

NORTH AGRO 31-6-8

BOX 465

NOTRE DAME, MB

ROG 1M0



REF # 1807750 BOX # 0 LAB # NW192455

Date Sampled 11/22/2016

Date Received 11/26/2016

Date Reported 1/9/2017

Nutrient In	The Soil	In	terp	retal	tion	15	t Cro	p Choice		2n	d Cro	p Choice		3r	d Cro	p Cho	ice
		VLove	Low	Med	High		Can	ola-bu			Can	ola-bu			Can	ola-bu	
0-6" 6-24"	19 lb/ac 18 lb/ac						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
	/	*****	*				40	BU			50	BU			60	BU	
0-24"	37 lb/ac					SUG	GESTEC	GUIDELINE	ES	SUGG	GESTED	GUIDELINE	S	SUG	GESTE	GUIDE	INES
Nitrate							В	and			В	and			В	and	
Olsen	15 ppm	control to	Section 1				CRE	APPLICAT	ION	LB/A	CRE	APPLICAT	ION	LB/A	CRE	APPLIC	ATION
Phosphorus	13 ppiii					N	103			N	138			N	173		
Potassium	183 ppm	*****	*****	*****	*****	P2O5	20	Band *		P205	25	Band *		P2O5	30	Ban	d *
Chloride						K ₂ O	0			K20	0			K ₂ O	0		
0-6"	14 lb/ac				IE	CI				CI				CI			
6-24" Sulfur	18 lb/ac	*****	*****	1		s	17	Band		5	17	Band		S	17	Ba	nd
Boron			-			В				В				8			
Zinc						Zn				Zn				Zn			
Iron					100	Fe				Fe				Fe			
Manganese				-		Mri			\neg	Mn			\exists	Mn			
Copper					-	Cu			\neg	Cu				Cu			
Magnesium			- 12			(100)			-	Ma			-	Mg			
Calcium					1	Mg			_		_		-				
Org.Matter	200		18			Lime	0			Lime	0			Lime	0		
Carbonate(CCE)	3.2 %	*****	*****			Soil	он в	uffer pH		on Excl						oical Ra	
0-6" 6-24"	0.3 mmho/cm 0.36 mmho/cm				33	0-6" (6-24")				Capaci	Ly	% Ca	% N	Mg %	6 K	% Na	% H

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 A GVISE Band guidelines will build P & K test levels to the medium range over many years.



Soil Analysis by Agvise Laboratories (http://www.agvise.com)

Northwood: (701) 587-6010 Benson: (320) 843-4109 SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID N - SH 4-7-9

SAMPLE ID 13 blue

FIELD NAME

COUNTY

7

RANGE 9

SECTION 4 QTR SH ACRES 190

PREV. CROP Wheat-Spring

SUBMITTED BY: PE0510

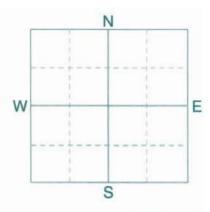
PEMBINA COOP-NOTRE DAME

NORTH AGRO 31-6-8

BOX 465

NOTRE DAME, MB

ROG 1MO



REF # 1807778 BOX # 0

LAB # **NW195281**

Date Sampled 11/23/2016

LA FERME PEMBINA

Date Received 11/29/2016

Date Reported 1/9/2017

Nutrient In	The Soil	Interp	retation	1.	st Cro	p Choice		2n	d Cro	p Choice	2	3r	d Cro	p Cho	ice
PARTY OF THE PARTY		VLow Low	Med H	igh	Corr	-Grain			Corn	-Grain			Corr	n-Grain	1
0-6" 6-24"	19 lb/ac 30 lb/ac				YIELI	GOAL			YIELD	GOAL			YIEL	D GOAL	
	50 15, 40	******	- 1		140	ви			150	BU			160	BU	
0-24"	49 lb/ac			SUG	GESTE	GUIDELINE	ES	SUGO	GESTED	GUIDELIN	ES	SUG	GESTE	GUIDEI	LINES
Nitrate					В	and			В	and			В	and	
					ACRE	APPLICAT	TON	LB/A	CRE	APPLICAT	TON	LB/A	CRE	APPLIC	CATION
Olsen Phosphorus	14 ppm	******	******	N	119			N	131			N	143		
Potassium	180 ppm	******		P ₂ O ₅	27	Band *		P ₂ O ₅	29	Band 1	c	P2O5	31	Ban	nd *
0-24''	20 lb/ac	Wananawa		K20	12	Band *	:	K20	13	Baind ^a	i i	K20	14	Ban	nd *
Childride				CI		Not		CI		Not		CI		Not Av	vailable
0-6" 6-24"		********	****			Availabl	le			Availab	le				
Sulfur				5	7	Band (Tri	ial)	5	7	Band (Tr	ial)	S	7	Band	(Trial)
Zinc			100	В				В				8			
Iron				Zn				Zn		-		Zn			
N'anganes e				Fe				Fe				FC			
Copper	1.0 ppm	********		Mn				(Men				Mn			
Magnesium				Cu	0			Cu	0			Cu	0		
Calcium				Mg				Mg				Mg			
Sodium				Lime				Lime				Lime			
Org.Matter	3.9 %	******	****				Cati	ion Exc	hange	% Ba	se Sa	turatio	n (Ty	pical Ra	nge)
Carbonate(CCE)			100	Soil	pH E	Buffer pH		Capaci	1	% Ca	% N	1g %	6 K	% Na	% H
0-6" 6-24" Sol. Salts	0.33 mmho/cm 0.33 mmho/cm			0-6' 6-24"											

Crop 1: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 56 K20 = 38 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 60 K20 = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 64 K2O = 43 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Soil Analysis by Agvise Laboratories (http://www.agvise.com)

Northwood: (701) 587-6010 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID S - SH 4-7-9

SAMPLE ID 14 red

FIELD NAME

COUNTY TWP

BOX 465

7

RANGE 9

SECTION 4 QTR SH ACRES 120

SUBMITTED BY:

PREV. CROP Grass Seed

NORTH AGRO 31-6-8

NOTRE DAME, MB

PEMBINA COOP-NOTRE DAME

W E S

1808707

REF # BOX # LAB# NW195318

SUBMITTED FOR:

LA FERME PEMBINA

Date Sampled 11/24/2016

Date Received 11/29/2016

ROG 1M0

PE0510

Date Reported 1/9/2017

0

Nutrient In	The Soil	Interpretation	15	t Cro	p Choice		2n	d Cro	p Choice		3rd	d Cro	p Cho	ice
		VLow Low Med High		Soy	beans			Soyl	peans			Soy	beans	
0-6" 6-24"	17 lb/ac 12 lb/ac			YIELI	GOAL			YIELD	GOAL			YIEL	D GOAL	
	,-,	*****		40	BU			50	80			60	BU	
0-24"	29 lb/ac		SUGO	SESTER	GUIDELIN	ES	SUGO	SESTED	GUIDELIN	ES	SUGO	ESTE	GUIDE	LINES
Nitrate				В	and			Ва	end			В	and	
	4.0000		LB/A	CRE	APPLICAT	ION	LB/A	CRE	APPLICAT	TON	LB/A	CRE	APPLI	CATION
Olsen Phosphorus	12 ppm	******	N	***			N	***			N	***		
Potassium	155 ppm	****** 676747 \$**** *4745	P ₂ O ₅	26	Band *		P205	32	Band '	k p	205	38	Bar	nd *
			K ₂ O	15	Band *		K ₂ O	19	Band *	k	60	23	Bar	nd *
Chloride 0-6"	16 lb/ac	******	CI				CI				CI			
6-24"		*****************	S	5	Band (Tri	al)	5	5	Band (Tr	ial)	S	5	Band	(Trial)
Saron			В				В				6			
Zinc			Zn			\neg	Zn				Zn			
fron			Fe			_	Fe				Fe			
Manganese			Mn			_	Min				Mrs		-	
Copper			0001				*10001							
Magnesium			Cu			_	Cu		-	_	Cu			
Calcium			Mg				Mg				Mg		-	
Sadium			Lime	0			Lime	0		L	ime	0		
Org.Matter	3.2 %	*********	Soil	oH F	Suffer pH		on Excl		% Ba	se Satu	ratio	п (Туј	pical Ra	nge)
Carbonate(CCE)	0.38 mmho/cm				- P-3	1 - 3	Capaci	ty	% Ca	% Mg	9/6	K	% Na	% H
6-24" Sol. Salts	0.44 mmho/cm	Control of the Contro	0-6" 6 6-24" 7											

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 35 K2O = 60 A GVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 75 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 53 K2O = 90 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

TOO WET IN 2016

Soil Analysis by Agrise Laboratories (http://www.agvise.com) Northwood: (711) 587-6010

BENSON: (320 843-4109

SOIL TEST REPORT

FIELD ID NH 5 7-9W 5E 8 7-9W SAMPLE IO 22

NORM PREJET FIELD NAME COUNTY

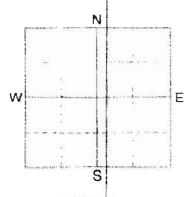
PEMBINA COOP-NOTRE DAME

TWP

RANGE 9 SECTION 5 OTR NH ACRES 320

SUBMITTED BY:

PREV. CROP Soybeans



REF # 1324871 BOX # Ò LAB # NW108396

SUBMITTED FOR:

NORM PREJET

NORTH AGRO 31-6-8 **BOX 465**

NOTRE DAME, MB

ROG 1MO

PE0510

Date Sampled 09/28/2015

Date Received 10/02/2015

Date Reported 10/5/2015

Nutrient In The Soil	Interpretation	1st Cro	p Choice	2nd Cro	op Chaice	Br	d Cro	p Choice
	Sout Law Med High	Wheat	-Spring	Whee	t-Spring		Wheel	t-Spring
IO lb/ac 6 lb/ac		YTELO	GOAL	AIEI	GOAL		VIEW) GOAL
		50	BU	69	Bu		70	80
16 Jb/ac		SUGGESTED	GUID ELINES	SUGGESTER	GUIDELINES :	SUGG	ESTEL	CUIDELINES
		Ва	ind	В	and		- P B	and
	MANAGE STATE	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LEYA	CRE	APPLICATION
36 Us 13 ppm		19 104		131			15B	
167 ppm	Maria Company	PrQs 21	Band *	PaQ\$ 25	Band *		29	Band *
12 lb/ac		100 12	Band *	K 0 14	Band *		16	Band *
10 lb/ac	17597-08	C 28	Broadcast	28	Broadcast		28	Broadcast
12 lb/ac		7	Band (Trial)	中雲社 フ	Band (Trial)	15	7	Band (Trial)
				8	-			
	31	2.0	A CONTRACTOR OF THE PARTY.	ZN				
		FE		Fé			-	
	TOTAL STATE OF THE	W.C		Description of				
0.76 ppm	Carrier Control	1	Band (Trial)	Co 1	Band (Trial)		1	Band (Trial)
	1545.00 1545.00	He	, , , ,	Ma			1000	
		Lights	-				-	-
3.9 %		Principle de la Constitución de	Theresi (Comp. 1000-100)	on direct		(香港市)等地位	Water Barbara	
		To a day of the form of the fact of	ara e	2145671 TERROCKS2200 COLUMNS SOURCE				
a 26 mmho/cm	2.42.50 20.50 20.50	0-6' 7.2			NA CE TO	A 100	English (E	unding the state
031 mmho/cm	### ## ## ## ## ## ## ## ## ## ## ## ##	6-24" 8.0						

Crop 1: 61 lbs of 0-0-60 = 28 bs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop Nitrogen credits may need to be adjusted based as local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 31 K20 = 19
AGVISE Band guidelines will sail P & K test levels to the medium range over many years.

Crop 2: 61 lbs of 0-0-60 = 25 as of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based or local conditions, Many crops may respond to a startor application of P & K even on high soll tests. Crop Removal: PRO5 = 38 K2O = 23 AGVISE Band guidelines will uild P & K test levels to the medium range over many years.

Crop 3: 61 lbs of 0-0-60 = 25 as of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is cradited 15 lbs for the previous crops Nitrogen credits may need to be adjusted based or local conditions. Many crops may respond to a startor application of P & K even on high soil tests. Crop Removal: PRO5 = 44 K2O = 26 AGVISE Band guidelines will uild P & K test levels to the medium range over many years.



Soil Analysis by Agvise Laboratories (http://www.agvise.com)

Northwood: (701) 587-6010 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID SE 9-7-9 SAMPLE ID 6 green

FIELD NAME COUNTY

TWP SECTION 9

RANGE 9

SUBMITTED BY: PE0510

QTR **SE** ACRES 140

PREV. CROP Wheat-Spring

PEMBINA COOP-NOTRE DAME

7



REF #

1765273 BOX #

LAB # NW146031

SUBMITTED FOR:

LA FERME PEMBINA

BOX 465

NOTRE DAME, MB

NORTH AGRO 31-6-8

ROG 1M0

Date Sampled 10/22/2016

Date Received 10/25/2016

Date Reported 1/9/2017

Nutrient In	The Soil	In	terp	retat	ion	15	t Cro	p Choice	2	nd Cro	p Choic	e	31	d Cro	op Cho	ice
		VLow	Low	Med	High		Can	ola-bu		Can	ola-bu			Car	iola-bu	
0-6" 6-24"	12 lb/ac 21 lb/ac						YIELI	GOAL		YIELI	GOAL			YIEL	D GOAL	
		*****					40	BU		80	BU			60	ви	
0-24"	33 lb/ac					SUG	GESTE	GUIDELINE	s su	GGESTE	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Nitrate							В	and	in min	8	and		Sin Junio	E	and	
							CRE	APPLICATI	ON LB	/ACRE	APPLICA	TION	LB/A	ACRE	APPLI	CATION
Olsen	21 ppm	*****	*****		******	N	107		N	247			N	177		
Potassium	180 ppm	*****	*****	*****		P ₂ O ₅	10	Band (Starter)	P2O:	16	Band	*	P ₂ O ₅	12	Bar	nd *
Chloride						K20	0		K ₂ O	0			K ₂ O	0		
0-6" 6-24"	8 lb/ac 48 lb/ac	The second second				CI			CI				CI			
Sulfur			10000	-		S	19	Band	S	19	Band		S	19	Ва	nd
Boron						В			В				В			
Zinc						Zn			Zn				Zn			
Iron Manganese						Fe			Fe				Fe			
Copper				-		Mn		1	Mn				Mn			
4agnesium						Cu			Cu				Cu			
Calcium						Mg			Mg				Mg			
Sodium						Lime			Lime	K .			Lime			
Org.Matter	2.5 %	*****									0/a B=	co Ca	N FI I I S	n (Tre	pical Rai	nga)
Carbonate(CCE)						Soil	H B	luffer pH	Cation Ex Capa	and the same of	% Ca	% f			% Na	% H
0-6" 6-24"	0.28 mmho/cm 0.23 mmho/cm					0-6" 7										

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 72 K2O = 36 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 A GVISE Band guidelines will build P & K test levels to the medium range over many years.



Soli Analysis by Agvise Laboratories (http://www.agvise.com) Northwood: (701) 587-6010

Benson: (320) 843-4109 SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID SE 15-7-9W SAMPLE ID 1 FIELD NAME COUNTY

RANGE 9

SECTION 15 QTR SE ACRES 130

PREV. CROP Canola-bu

W

SUBMITTED BY: PE0510 PEMBINA COOP-NOTRE DAME

NORTH AGRO 31-6-B

BOX 465

TWP

NOTRE DAME, MB

ROG IMO

S REF # 1745948 80X # 0 LAB # NW132029

Date Sampled 10/15/2016

GUY MABON

Date Received 10/18/2016

Date Reported 10/20/2016

Ε

Nutrient	In The Soll	I	nterpi	retati	on	1:	st Cro	p Choic	æ	2⊓	d Cro	p Choic	:е,	3	rd C	rop Ch	oice
		VLOW	Low	Med	Hlgh		Son	beans			Soyl	De ans			5	оуваля	
0-6° 6-24°							YIEL	D GOAL			Y)ELC	GOAL			Yl	ELD GOAL	
624	13 14/40						40	6U			50	BU				60 BU	
0-24"	25 lb/ac					suc	GESTE	O GUIDELIA	ES	SUG	GESTED	GUIDELIN	ES	SU	GGES1	ED GUIDE	LINES
Rivate							E	and			Ва	and	\neg			Band	
		<u> </u>	<u> </u>			LB/	ACRE	APPLICA	NOLL	LB/A	ACRE	APPLICA	TION	LB	/ACRE	APPL	ICATION
Olsen Phosphorus	4216121 ppm	****		••••	• * * * * * *	N	444			N	444			N	**	,	
Potassium	188 pgm			• • • • • • • • • • • • • • • • • • • •	*****	P ₂ O ₃	11	Band	•	P2Os	14	Band	•	P ₂ O ₅	1.7	Ba	nd •
						к,0	7	Band	•	K,O	9	Band	•	K,O	11	Ba	nd ₹
Chloride 0-6"	18 (b/ac					CI				O				a	\top		
6-24* Sulfur	18 lb/ac					5	7	Band (T	rial)	s	7	Band (To	isi)	s	7	Band	(Trial)
Boron						В				8				В			
Zinc						Sn			_	Zn				Zn			
Iran						Fe	_			fe				Fe	1		_
Мапдалево		<u></u>				Mn			\dashv	Мп				Mn	+	_	
Copper						Cu				Cu			\neg	Cu	+	_	
Hagnesium Calcium						Mo			\dashv	Ma			-	Mg	+	\dashv $-$	
Sodlum						Ume			\neg	Line			\dashv	Lime	 	+	
Org.Malter	1.9 %					5/1/2	<u> </u>						_				
Carbonate(CCE)						Soll	н в	uffer pH		on Exch Capacit	_	% Ba	58 S8		n (T)	voical Ra % Na	nge) % H
0-6" 6-24" Sol, Salts	0.35 mmhs/cm 0.31 mmhs/cm	1				0.6" 7 6-24" 8					,	70 CB	70 1		,	70 Na	79 11

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soli tests. Crop Removal: P205 = 35 K20 = 60 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 2: * Caution: Seed Placed Portilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 75 AGVISE Band guidalines will build P & K test levels to the medium range over many years. Saybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited saybean history.

Crop 3: * Caution: Sead Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 53 K2O = 90 AQVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing tess than 60 lb/sc with a fimited soybean filstory.



Soil Analysis by Agvise Laboratories (http://www.agvise.com)

Northwood: (701) 587-6010 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID NE 9-7-9

SAMPLE ID 2 FIELD NAME

COUNTY TWP

BOX 465

RANGE 9

SUBMITTED BY: PE0510

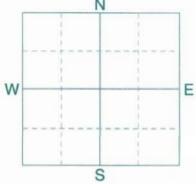
SECTION QTR NE ACRES 155

PREV. CROP Soybeans

NORTH AGRO 31-6-8

NOTRE DAME, MB

PEMBINA COOP-NOTRE DAME



REF #

1760412 BOX #

LAB # NW146038

SUBMITTED FOR:

AUBERT COMTE

Date Sampled 10/21/2016

Date Received 10/25/2016

ROG 1M0

Date Reported 1/9/2017

0

Nut	rient In	The Soil	In	terpi	retat	ion	15	t Cro	p Choice	2	2n	d Cro	p Choice	e	31	d Cr	op Cho	ice
			VLow			High		So	beans			F	lax				Flax	
	0-6" 6-24"	11 lb/ac 9 lb/ac						YIEL	D GOAL			YIELD	GOAL			YIE	LD GOAL	
	0.24	3 15/ 42	****					50	BU			30	BU			40	BU	A.
	0-24"	20 lb/ac					SUG	SESTE	D GUIDELIN	IES	SUG	GESTED	GUIDELIN	ES	SUGGESTED GUIDELINES			
Nitrate							1000	E	Band	111	Thinks.	В	and	mun	The same	II.IIIII	Band	
					-		LB/A	CRE	APPLICA"	TION	LB/A	CRE	APPLICAT	TION	LB/	ACRE	APPLI	CATION
Phosphorus	Olsen	32 ppm	*****	*****	*****	*****	N	***			N	40			N	70		
Potassium		221 ppm	2 * 2 * 3 *	*****			P ₂ O ₅	10	Band (Starte		P2O5	10	Band (Starter		PzOs	10	11/200	and ter)*
Chloride							K ₂ O	0			K ₂ O	0			K ₂ O	0		
	0-6" 6-24"	18 lb/ac 30 lb/ac	THE PARTY OF THE P				CI				CI				CI			
Sulfur	0-29	30 10/ ac	******				S	5	Band (Tr	ial)	S	5	Band (Tr	ial)	5	.5	Band	(Trial)
Boron							В				В				В			
Zinc							Zn				Zn				Zn			
Iron							Fe				Fe				Fe			
Manganese Topper							Mn				Mn				Mn			
Magnesium							Cu				Cu				CIU			
Calcium						136	Mg				Mg				Mg			
Spalium					1		Lime				Lime				Lime			
Org.Matter		3.4 %	****	ATRIA B SCI									E 2 22	aturation (Typical Range)				
Carbonate(CCE	1						Soil	Н	Buffer pH		ion Exci	1100	% Ca	% N		6 K	% Na	% H
Sol. Salts	0-6" 6-24"	0.42 mmho/cm 0.31 mmho/cm	100 May 200				0-6" 7 6-24" 8											

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 75 A GVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 27 K2O = 15 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 20 A GVISE Band guidelines will build P & K test levels to the medium range over many years.



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

Benson: (320) 843-4109

SUBMITTED FOR: PORCHERIE LAC DU ONZE

SOIL TEST REPORT

FIELD ID SE 10--7-9W SAMPLE ID 6 FIELD NAME Andy Collet

COUNTY TWP

RANGES

SECTION 10 QTR SE ACRES 155

PREV. CROP Canola-bu

SUBMITTED BY: PE0510 PEMBINA COOP-NOTRE DAME

NORTH AGRO 31-5-8

BOX 465 NOTRE DAME, MB

R06 1M0

N S

1661499 BOX # LAS # NW82548

REF #

Date Sampled 09/21/2016

Date Received 09/24/2016

Date Reported 9/27/2016

0

Nutr	ient I	n The Soil	Ir	iterpi	etati	on	1:	st Cro	op Choic	е	2n	d Cro	p Choic	e	31	rd Cr	op Cho	ice
	<u> </u>		VLOW	Low	Męd	High		Whe	et-Spring			Wheat	-Spring			Whe	at-Spring	
	0-6" 6-24"	11 lb/ac		ļ				YIEL	D GOAL			YIELO	GOAL			YIE	LD GOAL	
	0-24	12 lb/ac	****	ļ				\$0	80			60	₿⊔			70	J BU	
	0-24"	23 lb/aq					SUG	GESTE	D GUIDELIN	ES	SUG	GESTED	G nto€∏N	ES	SUC	GEST	D GUIDEI	LINES
Nitrate				ļ		! !			Band			Ва	and		Band			
		1					L8/4	ACRE	APPLICA	MOIT	LB/A	CRE	APPLICA'	TION	LB/	ACRE	APPLI	CATION
	Olsen	58/b/A 29 ppm	*****	4.8472	***	*****	N	112			N	139			N	166		
Phosphorus Potassium		192 ppm	*****	*****	****	, w	P ₂ O ₃	15	Ban (Starte	- 1	P _t O _s	15	Banc (Starter	- 11	₽,0,	15		and rter)+
Chlorida	0-24"	16 }b/ac	*****				K ₂ O	10	Ban	d	K ₂ O	10	Band	- 11	K ₂ O	10		end
	Q-6"	18 lb/ac							(Starte	-			(Starter	<u> </u>			(588)	rter)*
Sulfur	6-24°	36 lb/ac	*****	*****	-4-24	τ>	C)	24	Broads	36t	ä	24	Broadca	rat	0	24	Broe	dcast
Boron						1	5	7	Band (T	rtai)	S	7	Band (Yr	ial)	5	7	Band	(Trial)
Zinc							8	<u> </u>			8				В			
Iron							21:				Zn				Zn			
Manganest							Fe		<u> </u>		Fe				۶e			
Соррег		0.87 ppm	-	****	*****		Mn				Mn			[Mn			
Magnesium							Cu	0	Τ		Cu	٥			Ç.	Q		
Caldum							Mg		1		Mg				Mg			
Sodium							Lime				Ume				Ume			
Org.Matter		2.0 %	*****	4 2			-	Cation Exchange % Base Saturation (a ITV	nicat Re	nne)						
Carbonate(CCE)							Soil	н н	Buffer pH		Capacit	-	% Cs	% N	_	6 K	% Na	% H
Sol. Salls	0-6" 6-24"	0.32 mmho/cm 0.27 mmho/cm	*****	ł' I			0-6- 7	- 1	•			<u>- </u>						

Crop 1: 52 lbs of 0-0-60 = 24 lbs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respend to a starter application of P & K even on high golf basts. Crop Removal: P205 = 31 KZO = 19 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Crop 2: 52 lbs of 0-0-60 = 24 lbs of Chloride* * Cartion: Seed Placed Fartilizer Can Caupe Injury * Many crops may respond to a starter application of P & X even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Bend guidelines will build P & K best levels to the medium range over many years.

Crop 3: 52 lbs of 0-0-60 = 24 lbs of Chloride! * Caution: Seed Placed Fartilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 26 AGVISE Band quidelines will build P & K test levels to the medium range over many years.



Grower:
Grower Field Name:

FE Field Name:

W 10-7-9 W1

FERME GRAND RAVIN Sampler: Date Sampled:

ĭ

Lot Number:

161121_002 er 21, 2016

Cilentin:

per 23, 2016

Client ID:	Delivery Date:	Received Date:
09-0022	Novembe	Novembe

ery Date:	ved Date:
Nove	Nove

Date:	ed Date:	
No.	November	

ivery Date:	eived Date:	
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eived Date: livery Date:	Deli	Received
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:	Nove	3
	November	10110

Date:	Date:	
Novemb	Novemb	

Date:	Date:
Novemb	Novemb

<	\	nber 17, 2016

236	November
<	17, 2016

Total Acres:

Cone Lab ID Lab ID Sample Sub Surface Sub Surface Sub Surface Acres Depth		are	Texture	THE REAL PROPERTY.	ion	Cation Exchange and Base Saturation	change and	Cation Ex		から か		Macronutrients	Macro	
Sample Description **Macromutrients Lab ID Surface Lab ID Surface Sample Acres Sample Depth Ib/Ac Surf Ib/Ac Sub Total Ib/Ac ppm P-M.Kelowna K SO4-S Ib/Ac Sub 161121 002-01 161121 002-02 30 0-6 6-16 7 14 21 14 ppm ppm lb/Ac Surface lb/Ac Sub 161121 002-03 161121 002-04 47 0-6 6-18 7 8 15 35 320 5 161121 002-05 161121 002-06 61 0-6 6-18 13 14 27 30 320 5 161121 002-05 161121 002-06 61 0-6 6-18 13 14 27 30 320 5 161121 002-05 161121 002-06 6-18 13 24 37 21 240 5 161121 002-05 161121 002-06 6-24 6-24 26 60 86 53 410 7 2<				<u> </u>										
Sample Description Sample Description NO3-N P-Oisen P-M.Kelowna K SQ4-S Lab ID Zone Sample Depth Sample Depth NO3-N P-Oisen P-M.Kelowna K SQ4-S 161121 002-01 161121 002-02 30 0-6 6-16 7 14 21 14 19m ppm Ib/Ac Surface Ib/Ac Sub 161121 002-03 161121 002-04 47 0-6 6-18 7 8 15 35 320 5 161121 002-05 161121 002-06 61 0-6 6-18 13 14 27 30 310 5 161121 002-07 161121 002-08 59 0-6 6-18 13 14 27 30 310 5 161121 002-07 161121 002-08 59 0-6 6-18 13 24 37 21 240 5	24	7	410		53	86		26	6-24	£	17	161121_002-10	-	
Sample Description Sample Description NO3-N P-Oisen P-M.Kelowna K SO4-S Lab ID Zone Sample Depth Sample Depth NO3-N P-Oisen P-M.Kelowna K SO4-S 161121 002-01 161121 002-02 30 0-6 6-16 7 14 21 14 16 19m ppm Ib/Ac Surface Ib/Ac Surface 9 1 161121 002-03 161121 002-04 47 0-6 6-18 7 8 15 35 320 5 151121 002-05 161121 002-06 6-18 6-18 13 14 27 30 310 5	10	:27	240		21	37		13	6-18	96	59	161121 002-08	-	6
Concert Conc	10	<u>u</u>	310		30	27		13	6-18	સ્ત	61	161121 002-06	161121 002-05	5
Sample Description Sample Sample Sample Sample Sample NO3-N P - Olsen P-M.Kelowna K SO4-S Lab ID Zone Sample Sample NO3-N P - Olsen P-M.Kelowna K SO4-S Surface Sub Surface Acres Depth Ib/Ac Surf Ib/Ac Sub Total Ib/Ac ppm ppm Ib/Ac Surface Ib/Ac Sub 161121 002-01 161121 002-02 30 0-6 6-16 7 14 21 14 160 9 1	œ	5	320		35	15	œ	77	6-18	9-0	47	161121 002-04	161121_002-03	4
Sample Description Lab ID Lab ID Sunface Sun	14	9	160		14	21	14	7	6-16	9-0	30	161121 002-02	161121 002-01	ယ
Sample Description Sample Sample NO3-N P-Olsen P-M.Kelowna K	lb/Ac Sub	Ib/Ac Surface	ppm	ppm	ppm	Total Ib/Ac	lb/Ac Sub	Ib/Ac Surf	Depth	Depth	Acres	Sub Surface	Surface	-0110
oription "Macro	S	S04-S	×	P-M.Kelowna	P - Olsen	The state of the s	NO3-N		Sample	Sample	Zone	Lab ID	Lab ID	Zone
				croniumients	Ma	THE STATE OF THE S		No. of Street, or other Persons			cription	Sample Des		

Zone

ppm ppm

Mg

ppm

CEC meq/100g

Base Sat. %

% Ca

% a

% **x**

%g

Texture

3300 2000 2300 3700 2500

550 320 290 330 320

57 20 20 19

21.8 15.0 17.4 21.7

100.0 90.0 86.0 100.0 96.0

76.0 66.0 67.0 74.0

0 2 4 5 5

18.0 15.0

	Zone	10110	3	4	5	6	The Laborator		
	Cu	ppm	0.9	0.8	1.0	0.7	0.7		
	Fe	ppm	62.0	70.0	68.0	57.0	67.0		
Micro	Mn	ppm	17.0	27.0	21.0	14.0	12.0		
Micronutrients	Zn	ppm	0.8	0.7	1.4	0.9	5.3		
	8	ppm	0.3	0.2	0.3	0.2	0,4		
	C	Ib/Ac Surface	10	7	9	11	7		
		lb/Ac Sub	15	18	10	25	23		
MESSES CHANGE	рН	Surface	7.6				6.8		
	рН (1:2)	Sub Surface	8.1	7.9		7.8			
Soil Quality	EC (Sat. Paste Equiv.	dS/m Surf	0.48						
	ste Equiv.)	dS/m Sub			0.29	0.36	0.23		
	MO	%	3.7	2.7	3.0	3.1	5.3		

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Comments



Soil Analysis by Agvise Laboratories (http://www.agvise.com)

Northwood: (701) 587-6010 Benson: (320) 843-4109

SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID NE 10-7-9
SAMPLE ID 5 light blue

FIELD NAME COUNTY

TWP 7 RANGE 9

SECTION 10 QTR NE ACRES 160

SUBMITTED BY:

PREV. CROP Wheat-Spring

W

REF #

LAB #

1765270 NW146029

BOX # 0

PEMBINA COOP-NOTRE DAME

NORTH AGRO 31-6-8

BOX 465

NOTRE DAME, MB

ROG 1M0

PE0510

Date Sampled 10/22/2016

LA FERME PEMBINA

Date Received 10/25/2016

Date Reported 1/9/2017

Nut	rient In	The Soil	In	iterp	retat	ion	15	t Cro	op Choice	e	2n	d Cro	p Choic	e	31	d Cr	op Cho	ice
			VLDW	Low	Med	High		Gra	ss Seed			Grass	Seed			Gra	ss Seed	
	0-6" 6-24"	11 lb/ac 9 lb/ac		13				YIEL	D GOAL			YIELD	GOAL			YIE	LD GOAL	
	0-24	3 10/ 20						1	Season			1 5	Season			1	Season	NAT-
	0-24"	20 lb/ac	638				SUG	SESTE	D GUIDELIN	NES	SUG	SESTED	GUIDELIN	IES	SUG	GESTE	D GUIDE	LINES
Nitrate	1917			1000				E	Band			В	and				Band	
					100	153	LB/A	CRE	APPLICA:	TION	LB/A	ACRE	APPLICA	TION	LB/	ACRE	APPLI	CATION
Phosphorus	Olsen	17 ppm	*****	*****	*****		N	80			N	80			N	80		
Potassium		189 ppm	*****	*****			P ₂ O _S	0			P ₂ O ₅	0			P2O5	0		
	0-24"	16 lb/ac	*****				K ₂ O	0			K ₂ O	0			K20	0		
Chloride	0-6" 6-24"	4 lb/ac 6 lb/ac	****				CI		Not Availat		CI		Not Availab		CI		Not A	vailable
Sulfur	6-24	6 ID/ AC	*****				S	12	Band		5	12	Band		5	12	Ba	ınd
Baron				100			В				В				В			
Zinc							Zn				Zn				Zn			
ron							Fe				Fe				Fe			
danganese		21-3400					Mn				Mn				Mn			
Topper Tagnesium		1.22 ppm	*****	*****		**	Cu	0			Cu	0			Cu	0		
Calcium							Mg	3820			Mg				Mg	711		
Sodium							Lime			_	Lime			_	Lime			
Org.Matter		2.6 %	*****	****							2000		0/- 0-		- Constant	- (T-	nion! Do	1
Carbonate(CCE)		1	3	1		Soil p	H E	Buffer pH		Capacit		% Ca	% I		n (Ty	pical Ra % Na	nge) % H
Sol. Salts	0-6" 6-24"	0.33 mmho/cm 0.25 mmho/cm	1000-00	1000			0-6" 7 6-24" 8						70 Ca	701	.9		,0 144	70 11

Crop 1: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. A GVISE Band guidelines will build P & K test levels to the medium range over many years.



Grower: Grower Field Name:

FE Field Name:

SW 11-7-9 W1

FERME GRAND RAVIN

Sampler: Date Sampled: Total Acres:

99 Now

161121_058 November 21, 2016 ber 23, 2016

09-0022

	Deliv	Veces
Client ID:	Delivery Date:	veceived Date:

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ivery Date:	Date:	
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<	ember 17, 2018
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one	B B	4 4	,	ano	3	
Ca ppm	161121 058-07	161121 058-03	161121 058-01	Surface	Lab ID	The state of the s
Macronutrients Mg ppm 290	161121 058-08	161121 058-06	161121 058-02	Sub Surface	Lab ID	Sample Description
ppm	27	27	10	Acres	Zone	cription
CEC meq/100g	000	0-6	0-6	Depth	Sample	
3	6-24	φ φ 23 33	6-16	Depth	Sample	
Cation i Base Sat.	11			lb/Ac Surf	The second second	
Ca %		10 8		lb/Ac Sub	NO3-N	
t. Ga Na		5 26		Total Ib/Ac	The state of the s	
% **	55	39	1	ppm	P - Olsen	Macro
% Mg		9 10	1	1.	P-M.Kelowna	strein utrients
Texture	390	250 290	220	ppm	×	
Texture		50 44		lb/Ac Surface	SO4-S	
	<12	1. ~		lb/Ac Sub	1-8	HEAVING SECOND

216 Table	Zone	101.0		3	4	MINISTER STATES	6		
	Cu	ppm	0.7	0.8	0.8	1.2	0.9		
	Fe	ppm	16.0	32.0	47.0	76.0	70.0		
Micron	Mn	ppm	3.4	5.7	8.4	17.0	19.0		
Micronutrients	Zn	ppm	1.0	2.5	2.5	6.2	5.0		
	œ	ppm	0.2	0.2	0.2	0.3	0.3		
	CI	lb/Ac Surface	c ₅	4	6	5	4		
		lb/Ac Sub	7	11	9	14	8		
STATE OF THE STATE OF	pH (1:2)	Surface	7.8	7.6	7.5	6.5	6.2		
	1:2)	Sub Surface	8.8	8,4		7,9			
Soil Quality	EC (Sat. Paste Equiv.	dS/m Surf	0.34	0.44	0.37	0.19	0.18		
	te Equiv.)	dS/m Sub	0.21	0.28	0.26	0.19	0.30		
	OM	%	1.9	2.5	2.9	3.5	3.3		

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Comments



Soil Analysis by Agvise Laboratories (http://www.agvise.com)

Northwood: (701) 587-6010 Benson: (320) 843-4109

SOIL TEST REPORT

SE 11-7-9W FIELD ID

SAMPLE ID 2 FIELD NAME

COUNTY

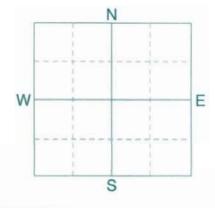
7 TWP RANGE 9

PEMBINA COOP-NOTRE DAME

SECTION 11 QTR**SE** ACRES 80

SUBMITTED BY:

PREV. CROP Wheat-Spring



REF # 1666476 BOX #

LAB # NW87431

SUBMITTED FOR:

LEO COMTE

NORTH AGRO 31-6-8

BOX 465

NOTRE DAME, MB

ROG 1M0

PE0510

Date Sampled 09/22/2016

Date Received 09/28/2016

Date Reported 1/9/2017

0

Nutrient In	The Soil	Interpre	tation	15	1st Crop Choice			2nd Crop Choice				3rd Crop Choice				
NAME OF TAXABLE PARTY.		View Low Med Hig			Canola-bu			Canola-bu				Canola-bu				
0-6" 6-24"	17 lb/ac 30 lb/ac				YIELI	GOAL			YIELD	GOAL			YIEL	D GOAL		
	30 10/ 00	*****			40	BU			50	BU			60	BU		
0-24"	47 lb/ac			SUGO	SESTER	GUIDELIN	ES	SUG	GESTED	GUIDELIN	ES	SUG	GESTE	GUIDE	LINES	
Nitrate					В	and			Ва	and			В	and		
			199	LB/A	CRE	APPLICATION		LB/ACRE		APPLICATION		LB/A	ACRE	APPLICATION		
Olsen	40 ppm	***********	********	N	93			N	128			N	163			
Potassium	191 ppm	***********	****	P ₂ O ₅	10	Band (Starter		P ₂ O ₅	10	Band (Starter	- 11	P ₂ O ₅	10		and ter)*	
Chloride				K ₂ O	0			K ₂ O	0			K20	0			
0-6" 6-24"	12 lb/ac 42 lb/ac	******		CI				CI				CI				
Sulfur	42 Ib/ ac		********	S	19	Band		S	19	Band		5	19	Ва	ınd	
Boron				В				В				8				
Zinc				Zn				Zn				Zn				
Iron				Fe				Fe			\dashv	Fe				
Aanganese				Mn				Mn			\neg	Mn				
Copper				Cu			_	Cu			\dashv	Cu	-			
Magnesium				-			_	-			\dashv		_			
Sodium				Mg			_	Mg			_	Mg	-			
Org.Matter				Lime				Lime				Lime				
MATTER CONT.	2.8 %	******		Soil p	l pH Buffer pH Cat			ation Exchange		% Base Sa		aturation (Typ		ical Range)		
Carbonate(CCE)								Capaci	ty	% Ca	% M	lg %	6 K	% Na	% H	
0-6" 6-24" Sol. Salts	0.34 mmho/cm 0.39 mmho/cm			0-6° 7	-											

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 23 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 A GVISE Band guidelines will build P & K test levels to the medium range over many years.



Soil Analysis by Agvise Laboratories (http://www.agvise.com)

Northwood: (701) 587-6010 Benson: (320) 843-4109

SUBMITTED FOR:

LA FERME PEMBINA

SOIL TEST REPORT

FIELD ID NW 11-7-9
SAMPLE ID 4 light blue

FIELD NAME

COUNTY

TWP 7

SECTION 11 QTR NW ACRES 93

PREV. CROP Wheat-Spring

SUBMITTED BY: PE0510

RANGE 9

PEMBINA COOP-NOTRE DAME

NORTH AGRO 31-6-8

BOX 465

NOTRE DAME, MB ROG 1M0

W S

REF # 1740154 BOX # 0

LAB # NW132033

Date Sampled 10/13/2016

Date Received 10/18/2016

Date Reported 1/9/2017

Nutrient In The Soil		Interpretation			1st Crop Choice				2nd Crop Choice				3rd Crop Choice					
THE RESIDENCE		VLow	Low	Med			Can	ola-bu			Cano	ola-bu			Whea	t-Spring		
0-6" 6-24"	11 lb/ac 15 lb/ac						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	LE .	
BURNES ST							40	BU			50	BU			70	BU		
0-24"	26 lb/ac					SUG	SESTEC	GUIDELINE	S	SUGO	SESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES	
Nitrate			19				В	and			В	and		Band				
						LB/A	CRE	APPLICAT	ION	LB/A	CRE	APPLICA"	TION	LB/	ACRE	APPLI	CATION	
Olsen Phosphorus	23 ppm	*****	*****	*****		N	114			N	149			N	163			
Potassium	177 ppm	*****	*****			P ₂ O ₅	10	Band (Starter)	1	P2O5	10	Band (Starte)		P ₂ O ₅	15		and ter)*	
Chloride						K ₂ O	0			K20	0			K20	11	Bar	nd *	
0-6" 6-24"	6 lb/ac 12 lb/ac	1745	1			CI				CI				CI				
Sulfur	22,0,00			113		S	22	Band		5	22	Band		S	12	Ва	ind	
Boron						В				В				В				
Zinc						Zn				Zn				Zn				
Iron Manganese						Fe				Fe				Fe				
Copper					1	Mn				Mn				Mn				
Magnesium						Cu				Cu				Cu				
Calcium			- 19		100	Mg				Mg				Mg				
Sodium						Lime				Lime				Lime				
Org.Matter	2.5 %	*****	****							0/o Base St		aturation (Typical Range		nge)				
Carbonate(CCE)						Soil	он в	Buffer pH		Capacity		% Ca % I		1	6 K	% Na	% H	
0-6" 6-24" Sol. Salts	0.28 mmho/cm 0.21 mmho/cm					0-6" 7 6-24" 8												

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 26 A GVISE Band guidelines will build P & K test levels to the medium range over many years.



Northwood: (701) 587-6010 Benson: (320) 843-4109

SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID NE 11-7-9W

SAMPLE ID 1 FIELD NAME

COUNTY

TWP 7 RANGE 9

SECTION 11 QTR NE ACRES 135

PREV. CROP Wheat-Spring

SUBMITTED BY: PE0510

PEMBINA COOP-NOTRE DAME

NORTH AGRO 31-6-8

BOX 465

NOTRE DAME, MB ROG 1M0

W S

REF # 1659259 BOX # 0 LAB # NW80458

Date Sampled 09/20/2016

LEO COMTE

Date Received 09/23/2016

Date Reported 1/9/2017

Nutrient In	The Soil	In	terp	retat	ion	15	t Cro	p Choic	e	2n	d Cro	p Choice	e	31	d Cro	p Cho	oice
		VLow	Low	Med	High		Soy	rbeans			Soy	beans			Soy	beans	
0-6" 6-24"	15 lb/ac 15 lb/ac						YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	
	,	*****					40	BU			50	ви			60	BU	
0-24"	30 lb/ac					SUGO	SESTE	GUIDELIN	NES	SUGG	SESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Nitrate		43					8	and			В	and			8	land	
Olsen	19 ppm					LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICAT	ION	LB/A	CRE	APPLI	CATION
Phosphorus	25 pp					N	***			N	***			N	***		
Potassium	191 ppm	*****	*****	*****	******	P ₂ C ₂	14	Band	*	P205	18	Band *		P20's	22	Bai	nd *
Chloride						K20	7	Band	*	K20	8	Band *		K ₂ O	10	Ba	nd *
0-6"	12 lb/ac			100	100	CI				CI				CI			
6-24" Salfur	36 lb/ac	NENERS	*****	****	***	s	9	Band (Tr	ial)	5	9	Band (Tri	ial)	S	9	Band	(Trial)
Boron						В				В				8			
Zinc						Zn				Zn				Zn			
fron					100	Fe				Fe				Fe			
Manganese	1			-		Mn				Mm				Ma			
Copper						Cu				Cu				Cu			
Calcium						Mq				Pha -				Mg			
Sodium						Lime				Linne				Lime			
Org.Matter	2.1 %	******			100	Gille									-		150
Carbonate(CCE)	19				120	Soil p	н в	uffer pH		on Exch Capacit	Street Street Street	% Ba	se Sat	1		oical Ra % Na	nge) % H
0-6" 6-24"	0.31 mmho/cm 0.29 mmho/cm					0-6" 7	66						20 171	.9		.0 140	20 11

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 35 K2O = 60 A GVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 75 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 53 K2O = 90 A GVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.



Northwood: (701) 587-6010 Benson: (320) 843-4109 FIELD ID SW 14-7-9W

SAMPLE ID 6

FIELD NAME Andes Collet

COUNTY

BOX 465

TWP 7

RANGE 9

SUBMITTED BY: PE0510

SECTION 14 QTRSE ACRES 155

SOIL TEST REPORT

PREV. CROP Wheat-Spring

NORTH AGRO 31-6-8

NOTRE DAME, MB

PEMBINA COOP-NOTRE DAME

W

REF # 1647462 BOX # 0

LAB # NW75188

SUBMITTED FOR:

PORCHERIE NOTRE DAME

Date Sampled 09/15/2016

Date Received 09/20/2016

ROG 1M0

Date Reported 1/9/2017

Nutrient In	The Soil	Interpretatio	n 1	st Cro	op Choice		2n	d Cro	p Choic	e	31	d Cro	op Cho	ice
		View tow Med h	ngh	Car	nola-bu			Can	ola-bu			Car	ola-bu	
0-6" 6-24"	25 lb/ac 24 lb/ac			YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	
	2410/00			40	BU			50	BU			60	BU	
0-24"	49 lb/ac		SUG	GESTE	D GUIDELINE	ES	SUG	GESTED	GUIDELIN	IES	SUG	GESTE	D GUIDE	LINES
Nitrate				F	Band			В	and			е	land	1 - 111
			110.3	ACRE	APPLICAT	ION	LB//	ACRE	APPLICA	TION	LB//	ACRE	APPLI	CATION
Olsen Phosphorus	42 ppm	AWAYAY AKKAY TA YATA	N	91			N	126			N	161		
Potassium	235 ppm	***************	P ₂ O ₅	10	Band (Starter	1	P2O5	10	Band (Starter	- 11	P2O5	10		and rter)*
Chloride			K₂O	0			K20	0			K ₂ O	0		
0-6" 6-24"	22 lb/ac 60 lb/ac	************	CI				CI				CI			
Sulfur			S	15	Band		S	15	Band		S	15	Ba	nd
Boron			В				В				В			
Zenc			Zn				Zn				Zn			
Manganese			Fe				Fe				Fe			
Copper			Mn				Mn				Mn			
Magnesium			Cu				Cu				Cu			
Calcium			Mg				Mg				Mg			
Sodium			Lime				Lime				Lime			
Org.Matter	3.2 %	******				Cati	on Exc	hange	% Ba	se Sat	turatio	n (Ty	oical Ra	nge)
Carbonate(CCE)			Soil	pH 1	Buffer pH		Capaci	10000	% Ca	% M	1g 9	6 K	% Na	% H
0-6" 6-24"	0.33 mmho/cm 0.31 mmho/cm		0-6" 6-24"											

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Northwood: (701) 587-6010 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID SE 14-7-9W

SAMPLE ID 5

FIELD NAME Andre Collet

COUNTY

SECTION

BOX 465

TWP 7 RANGE 9

SUBMITTED BY: PE0510

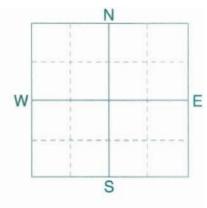
ACRES 155 QTR SE

14 PREV. CROP Wheat-Spring

NORTH AGRO 31-6-8

NOTRE DAME, MB

PEMBINA COOP-NOTRE DAME



LAB #

1647459 BOX #

NW75190

SUBMITTED FOR:

PORCHERIE NOTRE DAME

Date Sampled 09/15/2016

Date Received 09/20/2016

ROG 1MO

Date Reported 1/9/2017

Nutrient In	The Soil	In	terp	retat	ion	15	t Cro	p Choice	2	2n	d Cro	p Choice	e	31	d Cr	op Cho	ice
		VLow	Low		High		Can	ola-bu			Can	ola-bu			Car	nola-bu	
0-6" 6-24"	20 lb/ac 18 lb/ac						YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	
	10 10/00	*****					40	BU			50	BU			60	БÜ	
0-24"	38 lb/ac	100				SUG	GESTE	GUIDELIN	IES	Suc	SESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Vitrate							В	and			В	and			E	Band	
	20.54.638						ACRE	APPLICA	TION	LB/A	ACRE	APPLICA	TION	LB//	CRE	APPLI	CATION
Olsen	23 ppm	*****	*****	*****	*****	N	102			N	137			M	172		
Potassium	233 ppm	*****	*****	*****		P2O5	10	Band (Starte		P205	10	Band (Starter	- (1	P ₂ O ₅	10	1	and rter)*
Chloride						K20	0			K ₂ O	0			K20	0		
0-6" 6-24"	18 lb/ac 24 lb/ac	1				CI				CI				CI			
Sulfur						5	17	Band		5	17	Band		5	17	Ba	nd
Soren						В				В				8			
ron				200		Zn				Zn				Zn			
Manganese:						Fe				Fe				Fe			
Copper			-	100		Min				Mm				Ma			
Magnesium				60		Cu				Cu				Cu			
Calcium						440,				Mg				Mig			
Sodium			131	100		Lime				Lime				Lune			
Org.Matter	2.6 %	*****	****						Cati	on Exc	hange	% Ba	se Sa	turatio	n (Ty	pical Ra	nge)
Carbonate(CCE)			1			Soil	pH E	luffer pH		Capaci	10000	% Ca	% 1	1g %	6 K	% Na	% H
0-6" 6-24"	0.32 mmho/cm 0.3 mmho/cm	-				G-6" 7	2000										

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 23 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 A GVISE Band guidelines will build P & K test levels to the medium range over many years.



> Northwood: (701) 587-6010 Benson: (320) 843-4109

SOIL TEST REPORT

SUBMITTED BY:

FIELD ID NW 14-7-9W

SAMPLE ID 7

FIELD NAME Ray Dacquay

COUNTY

SECTION

BOX 465

NOTRE DAME, MB

TWP

7 14 RANGE 9

QTR **NW** ACRES 155

PREV. CROP Wheat-Spring

PEMBINA COOP-NOTRE DAME

W E S

REF #

1647463 BOX # LAB # NW75189

SUBMITTED FOR:

PORCHERIE NOTRE DAME

NORTH AGRO 31-6-8

Date Sampled 09/15/2016

Date Received 09/20/2016

ROG 1M0

PE0510

Date Reported 1/9/2017

0

Nutrient In	The Soil	Interp	retation	15	t Cro	p Choice	2r	d Cro	p Choice		31	d Cro	p Cho	ice
		VLow Low	Med High		Can	ola-bu		Can	ola-bu			Car	ola-bu	
0-6" 6-24"	21 lb/ac 18 lb/ac				YIEL	GOAL.		YIELD	GOAL			YIEL	D GOAL	
	20 10, 22	******			40	BU		50	BU			60	ви	
0-24"	39 lb/ac	BIR		SUG	GESTE	GUIDELINES	SUG	GESTED	GUIDELINE	S	SUG	GESTE	D GUIDE	LINES
Nitrate		U1 1			В	and		В	and		5,000	E	land	
		100		LB//	ACRE	APPLICATION	LB//	ACRE	APPLICATI	ION	LB/	ACRE	APPLI	CATION
Olsen Phosphorus	18 ppm	*****	*******	N	101		N	136			N	171		
Potassium	244 ppm	*********	** *********	P ₂ O ₅	14	Band *	P ₂ O ₅	18	Band *		P2'05	21	Bar	nd *
				K20	0		K20	0			K20	0		
Chloride 0-6"	10 lb/ac	******		CI			CI				CI			
6-24" Sulfur	42 lb/ac	******	**********	S	19	Band	S	19	Band		S	19	Ва	nd
Boron				В			В				В			
Zinc				Zn			Zn				Zn			
Iron				Fe			Fe				Fe			
Manganese				Mn			Mn			\dashv	\$4cs			
Copper				Cu			Cu			\dashv	Cu			
Magnesium Calcium				Mg			Mg			-	Mgi			
Sodium				Lime			Lime			-	Lime	_		
Org.Matter	2.2 %	*******		Line								7.00		
Carbonate(CCE)				Soil	оН В	uffer pH Ca	Capaci	STATE OF THE PARTY.	% Bas	e Sa % N	_	n (Tyl	% Na	nge) % H
0-6" 6-24"	0.38 mmho/cm 0.37 mmho/cm			0-6" 7					70 00		.3		70 140	39.11

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 23 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 A GVISE Band guidelines will build P & K test levels to the medium range over many years.



Northwood: (701) 587-6010 Benson: (320) 843-4109

SUBMITTED FOR:

PORCHERIE LAC DU ONZE

SOIL TEST REPORT

FIELD ID NE 14-7-9W

SAMPLE ID 4 FIELD NAME

COUNTY TWP

RANGE 9

ACRES 148 SECTION 14 QTR NE

PREV, CROP Canola-bu

7

SUBMITTED BY: PE0510

PEMBINA COOP-NOTRE DAME

NORTH AGRO 31-6-8

BOX 465

NOTRE DAME, MB **ROG 1M0**

E W S

1647467 BOX # REF # 0

LAB # NW75192

Date Sampled 09/15/2016

Date Received 09/20/2016

Date Reported 1/9/2017

Nutrient In	The Soil	Inter	pretation	15	t Cro	op Choic	е	2n	d Cro	p Choic	e	31	rd Cr	op Cho	oice
		VLow Lov	w Med High		Whea	at-Spring			Whea	t-Spring			Whe	at-Spring	N. T.
0-6" 6-24"	15 lb/ac 27 lb/ac				YIEL	D GOAL			YIELD	GOAL			YIEI	D GOAL	
6-24	27 lb/ac	******			50	BU			60	BU			70	BU	
0-24"	42 lb/ac		10.10	SUG	GESTE	D GUIDELIN	NES	SUG	GESTEC	GUIDELIN	IES	SUG	GESTE	D GUIDE	LINES
Nitrate					8	Band			В	and			1	Band	
			100	LB/A	CRE	APPLICA	TION	LB/A	ACRE	APPLICA	TION	LB/	ACRE	APPLI	CATION
Olsen	26 ppm	******	*******	N	93			N	120			N	147		
Potassium	200 ppm	Z = 4 + 5 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +	*******	P ₂ O ₅	15	Band (Starte		P ₂ O ₅	15	Band (Starte		P20s	15	_	and rter)*
0-24"	192 lb/ac	*****	***********	K2O	10	Banı (Starte		K ₂ O	10	Band (Starte		K20	10		and
0-6" 6-24"		*********		CI	0			CI	0		_	CI	0		
Sulfur				S	7	Band (Tr	rial)	5	7	Band (Tr	rial)	S	7	Band	(Trial)
Zinc				В				В				В			
fron				Zn				Zn				Zn			
Manganese				Fe				Fe				Fe			
Copper	1.33 ppm	******	******	Mn		1		Mri				Mn			
Magnesium	2,00 pp			Cu	0			Cu	0			Cu	0		
Calcium				Mg				Mg				Mg			
Sodium				Lime				Lime				Lime			
Org.Matter	2.0 %	******					C-1			0/o R=	se Sa	turatio	n (Tv	pical Ra	nge)
Carbonate(CCE)			1-1-1	Soil	H E	Buffer pH		Capaci	Contract of the last	% Ca	% 1		6 K	% Na	% H
0-6" 6-24"	0.31 mmho/cm 0.28 mmho/cm			0-6" 7 6-24" 8	15.5										

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2OS = 31 K2O = 19 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Northwood: (701) 587-6010 Benson: (320) 843-4109

SUBMITTED FOR:

JAMAULT FARMS

SOIL TEST REPORT

FIELD ID SW15-7-9W

SAMPLE ID 6 FIELD NAME

COUNTY 7 TWP

SECTION

RANGE 9

QTR SW

ACRES 150

15 PREV. CROP Canola-bu

SUBMITTED BY: PE0510

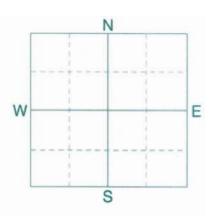
PEMBINA COOP-NOTRE DAME

NORTH AGRO 31-6-8

BOX 465

NOTRE DAME, MB

ROG 1M0



REF # 1793437 BOX # 0

LAB # NW171412

Date Sampled 11/08/2016

Date Received 11/10/2016

Date Reported 1/9/2017

Nutrient In	The Soil	Interpretation	15	t Cro	op Choice	2n	nd Cro	p Choice		31	d Cro	p Cho	ice
		VLow Low Med High		Whea	at-Spring		Whea	t-Spring			Whea	t-Spring	
0-6" 6-24"	19 lb/ac 42 lb/ac			YIEL	D GOAL		YIELD	GOAL			YIEL	D GOAL	
0-24	42 10/ 80	******		50	BU		60	ви			70	BU	
0-24"	61 lb/ac		SUG	GESTE	D GUIDELINES	SUG	GESTEC	GUIDELINES		SUG	GESTE	GUIDE	LINES
Nitrate				Е	Band		В	and			В	and	
			LB/A	CRE	APPLICATION	LB//	ACRE	APPLICATIO	N	LB/A	CRE	APPLI	CATION
Olsen Phospharus	25 ppm	*************	N	74		N	101			N	128		
Potassium	236 ppm	**************	P205	15	Band (Starter)*	PzOs	15	Band (Starter)*		PzOs	15	Ba (Star	ind ter)*
0-24" Chloride	Section 100 Control	******	K20	10	Band (Starter)*	K ₂ O	10	Band (Starter)*		K₂O	10	Ba (Star	ind ter)*
0-6" 6-24" Sulfur	0.03	************	CI	4		CI	4			CI	4		
Boron			S	0		S	0			S	0		
Zinc			В			В				В			
Iron			Zn			Zn				Zn			
Manganese			Fe			Fe				Fe			
Copper	1.22 ppm	***********	Ma			Mn				Mn			
Magnesium			Cu	0		Cu	0			Cu	0		
Calcium			Mg			Mg				Mg			
Sodium			Lime			Lime				Lime			
Org.Matter	3.2 %	********			Cati	ion Excl	hange	% Base	Satu	ratio	п (Тур	ical Rar	ige)
Carbonate(CCE)			Soil p	H E	Buffer pH	Capacit		% Ca	% M g	0/	K	% Na	% н
0-6" 6-24" Sol. Salts	0.29 mmho/cm 0.26 mmho/cm	******	0-6" 7 5-24" 8	277									

Crop 1: 8 lbs of 0-0-60 = 4 lbs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 31 K2O = 19 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: 8 lbs of 0-0-60 = 4 lbs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: 8 lbs of 0-0-60 = 4 lbs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Northwood: (701) 587-6010 Benson: (320) 843-4109

SUBMITTED FOR:

JAMAULT FARMS

SOIL TEST REPORT

FIELD ID NW 15-7-9W

SAMPLE ID 7 FIELD NAME

COUNTY
TWP 7

RANGE 9

SECTION 15 QTR NW ACRES 130

PREV. CROP Canola-bu

SUBMITTED BY: PE0510

PEMBINA COOP-NOTRE DAME

NORTH AGRO 31-6-8

BOX 465

NOTRE DAME, MB ROG 1M0

W S

REF # 1793438 BOX # 0

LAB # **NW171410**

Date Sampled 11/08/2016

Date Received 11/10/2016

Date Reported 1/9/2017

Nutrient In	The Soil	Interpretation	15	t Cro	p Choice	е	2n	d Cro	p Choic	e	31	d Cro	op Cho	ice
		VLow Low Med High		Whea	t-Spring			Wheat	t-Spring			Whea	it-Spring	
0-6" 6-24"	19 lb/ac 36 lb/ac			YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	
0.24	30 10/ 20	*****		50	BU			60	BU			70	BU	
0-24"	55 lb/ac		SUG	GESTE	D GUIDELIN	IES	SUG	SESTED	GUIDELIN	IES	SUG	GESTE	D GUIDE	LINES
Vicrate				В	land			В	and			E	land	
			LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA	TION	LB//	CRE	APPLI	CATIO
Olsen	30 ppm	****** ***** ***** *****	N	80			N	107			N	134		
Potassium	228 ppm	***********	P2O5	15	Band (Starter		PzOs	15	Band (Starter		P2Os	15		and rter)*
0-24"	36 lb/ac	******	K20	10	Band (Starter		K ₂ O	10	Band (Starter	- II	K20	10	11000000	and
0-6" 6-24"		**************	CI	4			CI	4			CI	4		
Soron			S	7	Band (Tr	ial)	S	7	Band (Tr	iaf)	S	7	Band	(Trial)
tinc			В				В				В			
ron			Zn				Zn				Zn			
tanganese			Fe				Fe				Fe			
Copper	1.42 ppm	****************	Mn				Mn				Mn			
1agnesium			Cu	0			Cu	0			Cu	0		
Calcium			Mg				Mg				Mg			
odium			Lime				Lime				Lime			
Org.Matter	2.9 %	******				Cati	on Excl	nange	% Ba	se Sat	turatio	n (Typ	oical Ra	nge)
arbonate(CCE)			Soil p	H	luffer pH		Capacit		% Ca	% M	1g %	K	% Na	% H
0-6" 6-24"	0.23 mmho/cm 0.19 mmho/cm	STATE OF THE PARTY	0-6" 7 6-24" 8											

Crop 1: 8 lbs of 0-0-60 = 4 lbs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 31 K2O = 19 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: 8 lbs of 0-0-60 = 4 lbs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: 8 lbs of 0-0-60 = 4 lbs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 26 A GVISE Band guidelines will build P & K test levels to the medium range over many years.



> Northwood: (701) 587-6010 Benson: (320) 843-4109

SOIL TEST REPORT

NE 15-7-9W FIELD ID

SAMPLE ID 2 FIELD NAME

COUNTY

BOX 465

7 TWP

NORTH AGRO 31-6-8

NOTRE DAME, MB

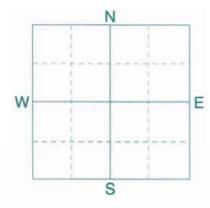
SECTION 15 QTR NE ACRES 150

RANGE 9

SUBMITTED BY: PE0510

PREV. CROP Wheat-Spring

PEMBINA COOP-NOTRE DAME



REF # 1790972

BOX #

LAB # NW167540

SUBMITTED FOR:

JAMAULT FARMS

Date Sampled 11/07/2016

Date Received 11/08/2016

ROG 1MO

Date Reported 1/9/2017

0

Nutrient Ir	The Soil	Interpre	tation	15	t Cro	p Choic	e	2n	d Cro	p Choic	e	3r	d Cro	op Cho	oice
		Viaw Low 1	Med High		Soy	beans			Soy	beans			Soy	ybeans	
0-6" 6-24"	15 lb/ac 33 lb/ac				YIELI	D GOAL			YIELD	GOAL			YIEL	D GOAL	
		*****			40	BU			50	BU			60	BU	T. Pro
0-24"	48 lb/ac			SUGO	GESTE	GUIDELIN	NES	SUG	GESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Nitrate					8	and		in L	В	and	mure in	(Inte	E	Band	a w
Olsen	15			LB/A	CRE	APPLICA	TION	L8/A	ACRE	APPLICA"	TION	LB/A	CRE	APPLI	CATION
Phosphorus	15 ppm	******	***************************************	N	***			N	***			N	***		
Potassium	163 ppm	**********	*****	P ₂ O ₅	21	Band	*	P205	26	Band	* p	205	31	Bai	nd *
				K ₂ O	13	Band	*	K20	17	Band	*	(20	20	Bai	nd *
Chloride 0-6"	12 lb/ac	******	0 3	CI				CI.				CI			
6-24" Sulfur	18 lb/ac	******		s	9	Band (Tr	ial)	S	9	Band (Tr	ial)	S	9	Band	(Trial)
Boron				В				В				В			
Zinc				Zn				Zn				Zn			
Iron				Fe				Fe				Fe			
Manganese			-	Mn				Mn				Mn			
Copper				Си				Cu				Cu			
Magnesium				Mq			_	Mg				Mg	-	+	
Sodium							_	Lime							
Org.Matter	2.2 %	*******		Lime						-		ime	-		-
Carbonate(CCE)	2.2 %			Soil p	н в	luffer pH		on Excl	NAME OF TAXABLE PARTY.	% Ba	se Satur % Mg			oical Ra % Na	nge) % H
0-6" 6-24"	0.23 mmho/cm 0.26 mmho/cm			0-6" 8				Capaci		70 Ca	-70 Mg	9/1		70 144	90 H

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 35 K2O = 60 A GVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 75 A GVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 53 K2O = 90 A GVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.



Surface

161116 139-01 161115 139-02 161116 139-03 161115 139-04 161115 139-05 181115 139-06 161115 139-07 161115 139-08 161115 139-09 161115 139-10

Sample Description

(ab in Zone Sub Surface Acres
161115 139-04 30
161115 139-08 38
161115 139-08 22

Depth 0-6

6-12

Grower:
Grower Field Name:
FE Field Name:

Legal Location: SW 15-7-9 Wt

FERME GRAND RAVIN

Sampler: Date Sampled: Ī

Total Acres:

November 13, 2016

Lot Number:

18, 2016 15, 2016

Client ID:	Delivery Date:	Received Date:
09-0022	November	November

		\
Client ID:	Delivery Date:	Received Date:

divary	ceived Date:	-04 14 14 140 1
Date:	Date:	
Nove	Nov	

	Date:	mber:
Name of 18	November 15	151115_139

Ž.	530		
10	260		n
12	350		50
12	290		38
8	210		27
Ib/Ac Surface	ppm	pom	ppm
50%	2	P-M-Kalowna	P. Olson
		Macronublanta	Ma
Client ID:			193
Delivery Date:	٥	<	1

Total It/Ac

STATE OF THE PARTY	Zone			3	4	5		
Macro	E C		3800	2600	2300	2300		
nutrients	P and	- 1	430	380	290	280		
STATE OF STA	N _a	33	30	23	27	20		
	meq/100g	24.1	23.5	17.7	16.1	17.1		
Catio	Base Sat.	100,0	100.0	98.0	90.0	90.0		
n Exchange an	* 3	82.0	81.0	74.0	71.0	68.0		0000
d Base Saturat	Na Na	0.6	0.6	0.6	0.7	0.5		
ion	* *	2.2	32	5,0	4.0	7.9		
TOTAL AND STATE	**	15.0	15.0	17.0	15.0	14.0		
Texture	Toxing				1000			

PREVIOUS CROP:CANOLA



Sample Description

Grower: Grower Field Name:

FE Field Name:

Legal Location:

SE 16-7-9 W1

FERME GRAND RAVIN

Sampler: Date Sampled:

November 13, 2016 ¥ S

ber 15, 2016 138

/ember 18, 2016

19-0022

elivery	celved
Date:	Date:
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Client ID:	elivery Date:
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ery Date:	ved Date:	100000
Nove	Nove	

14	11	12	Total Ib/Ac			Total Acres:
i s	31	46	ppm	P - Olsen	M:	107
		65	ppm	P-M.Kelowna	Macronutrients	7
270	270	320	ppm	*		Ì
			lb/Ac	20-0		Delivery Clie

THE REAL PROPERTY.	Zone			در		4	105 SOL	8			
	Cu	ppm	1.6	12		1.5	1.4	1.4			
	Fe	ppm	53.0	40 0		47.0	43.0	48.0			
Micro	Mn	ppm	12.0	90		8.1	7.9	8.0			
licronutrients	Zn	ppm	2.7	25		2.9	2.5	2.7			
100 CO	8	ppm	0.4	0.4		0.5	0.3	0.3			
	CI	lb/Ac Surface	7	7		CO	6	4			
	2	lb/Ac Sub	6	10		11	12	6			
	рН	Surface		7 4	77.7	7.3	7.2	7.1			
	рН (1:2)	Sub Surface	_		0.0	8.1	8.0	8.3			
Soil Quality	EC (Sat. Paste Equiv	dS/m Surf	0.32	0.00	0.52	0.48	0.54	0.43			
	ste Equiv.)	dS/m Sub	0.30	0.00	0.32	0.35	0.47	0.33			
A STATE OF THE PARTY OF THE PAR	MO	%	43		4.0	5.3	4.5	4.7			

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Grower:
Grower Field Name:

FE Field Name:

N 16-7-9 W1

FERME GRAND RAVIN

Sampler: Date Sampled:

Total Acres:

Lot Number:

ember 17, 2016 er 15, 2016

Client ID:	Delivery Date:	Received Date:
09-0022	Novembe	Novembe

∿ Date:	d Date:	
Novemb	Novemb	

,	Date:	ilibei.
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	November	10110

Client ID:	Delivery Date:	Received Date:
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2	ed Date:	Number:
	Nover	161111

²¹³	November 13, 2016	МН
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V.		ᆫ							+	-	_
A STATE OF THE PARTY OF THE PAR	Lab ID	Surface	161115_132-01	161115 132-03	161115_132-05	161115 132-07	161115 132-09	161115_132-11			
Sample Description	Lab ID	Sub Surface	161115 132-02	161115 132-04	161115 132-06	161115 132-08	161115 132-10	161115_132-12			
scription	Zone	Acres	17	25	35	41	42	45			
	Sample	Depth	S	0-6	0-6	9-0	0-6	0-6			
Manual Property	Sample	Depth	6-16	6-16	6-16	6-16	6-16	5-16			
Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Ow		lb/Ac Surf	10	7	12	7	11	8			
	NO3-N	lb/Ac Sub	19	4	14	4	9	7			
		Total Ib/Ac	29	11		11	20	15			
W	P - Olsen	ppm	32	_	39	40	44	44			
acironutrients	P-M.Kelowna	ppm	2	03	9	0	4	4			
	~	ppm	280	270	420	380	460	440			
The state of the s	SO	lb/Ac Surface	8	7	14	14	13	16			
	S04-S	lb/Ac Sub									

Zone

ppm Ca

ppm Na

Base Sat. %

cation Exchange and Base Saturation

t. Ca Na Na %

% 7

%™

Texture Texture

4400 4700 4400 3600 2400 2200

310 380 470 460 360 330

27 28 29 27 22

meq/100g
25.3
27.4
27.2
22.7
16.7
16.3

100.0 100.0 100.0 100.0 97.0 91.0

87.0 86.0 81.0 79.0 72.0 67.0

0.6

2.8 2.5 4.0 4.3 7.0 6.9

10.0 11.0 14.0 17.0 18.0 17.0

Macronutrients
Mg
ppm

11 Signatur	Zone			3	4	5	6	THE PERSON		
THE PERSON NAMED IN	ς.	ppm	1.4	1.4	1.6	1.8	2.1	1.8		
	Fe	ppm	49.0	17.0	40.0	41.0	43.0	55.0		
Micro	M	ppm	16.0	3.7	14.0	8.5	15.0	21.0		
Micronutrients	Zn	ppm	1.8	1.4	2.1	2.6	3.6	2.9		
	В.	ppm	0.3	0.1	0.2	0.3	0.3	0.4		
Clear Manager	Ω	lb/Ac Surface	4	5	o	o	œ	o		
		lb/Ac Sub	8	6	8	9	6	11		
	рН	Surface	7.3	80.1	7.3	7.4	6.9	6.6		
	рН (1:2)	Sub Surface				8.2				
Soil Quality	EC (Sat. Par	dS/m Surf	0.61	0.35	0.49	0.43				
100 - 100 - 100 E	t. Paste Equiv.)	dS/m Sub	0.35	0.28	0.35	0.41	0.34	0.33		
	OM	%	26	24	3 !	32	3.5	3.4		

PREVIOUS CROP:CANOLA



Grower:
Grower Field Name:

Legal Location:

S 21-7-9 W1

FERME GRAND RAVIN

Sampler: Date Sampled: Total Acres:

₹

Lot Number:

ived Date: 161115_131

November 15, 2016

ivery Date: Client ID:

November 17, 2016

	187	November 13, 2016	
0	Delive	Receiv	

187	November 13, 2016
	71

						The second secon						
one	Lab ID	Lab ID	Zone	Sample	Sample		NO3-N	The second second	P - Olsen	P-M.Kelowna	7	
9	Surface	Sub Surface	Acres	Depth	Depth	Ib/Ac Surf	lb/Ac Sub	Total lb/Ac	ppm	ppm	ppm	Ib/Ac Surface
1	161115 131-01	161115 131-02	10	9-0	6-12	10	7	17			- 1	
		10404	3		2		,				200	
3 1		161115 131-04	23	9-0-6	6-12	3	(S)	13	17		280	
1	161115 131-05	161115 131-06	57	0-6	6-16	7	9	16	19		240	
		161115 131-08	57	25	6-18	5	٥	19	75		200	
		-			2				200		002	
3 1	161115 131-09	161115 131-10	25	9-0	6-20	6	32	38	39	_	410	
1	161115 131-11	161115 131-12	12	S	6-16	6	۵	€	3.2		380	
- 1								A				
-				-								

	Zone		ယ	4	5	6	55 6400		
Macro	Ca	4800	4800	4600	2600	2600	2900		
Macronutrients	Mg	500	460	410	440	450	440		
	Na ppm	21	24	22	20	29	21		
	CEC meq/100g	28.5	28.3	26.9	17.6	17.8	19.4		
Catio	Base Sat. %	100.0	100.0	100.0	100.0	100.0	100.0		
n Exchange at	Ca %	83.0	84.0	85.0	75.0	73.0	76.0		
and Base Saturation	₩a %	0.3	9.4	0.4	0,5	0.7	0.5		
ion	% X	2.2	22.5	2,3	3.7	5,0	5,1		
AND THE PERSON	wg %	14.0	13.0	13.0	21.0	21.0	19.0		
Texture	Texture								

PREVIOUS CROP:CANOLA



Farmers Edge Laboratories 1357 Dugald Road Winnipeg, Manitoba Canada **R2J 0H3**

Phone: 1 204 233 4099

Farmers Edge - Pembina South Report To:

Box 326

Pilot Mound, Manitoba R0G 1P0

Grower:

FERME GRAND RAVIN

Lot Number:

161115_118

Grower Field Name: Reference Field Name:

N 21-7-9 W1

Date Sampled: Received Date:

2016/11/12 2016/11/15

Attention:

Kory Van Damme

Legal Location: Total Acres:

165

Date Reported:

2016/11/17

Client ID:

Sample ID

161115_118-01

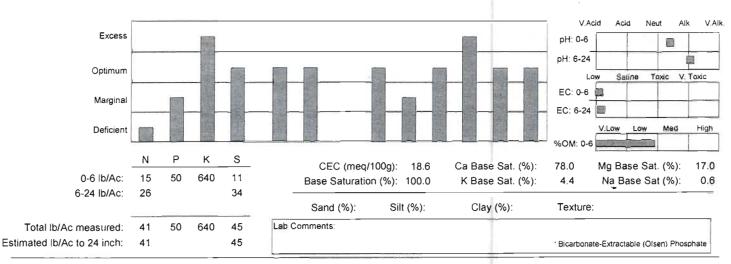
161115_118-02

09-0022

Sampler:

BM

P* N Κ S Ca Mg Na В Cu Fe Mn Zn CI EC OM dS/m % ppm ppm ppm ppm ppm ppm ppm ppm Depth mag ppm mag mag mag 0-6 8 25.0 320 6 2900 380 26 0.3 1.0 45.0 18.0 1.8 3.2 7.4 0.19 3.8 6 6-24 4 2.8 8.1 0.33



ertility Recommendat	ion Previous Crop: Canol	a, Hybrid			Str	aw Remo	oved	V 0	ontinuo	us Cro	pping		rrigate
Yield Type	Rain Required (Inch)	Yield	% Yield Reduction	N	P2O5	K20	S	В	Cu	Fe	Mn	Zn	CI
Soybeans													
Calculated Yield	10.2 (Wet)	50 bu	0	0	20	0	0	2		0	0	0	0
Calculated Yield	7.9 (Average)	36 bu	0	0	15	0	0	2		0	0	0	0
Calculated Yield	4.5 (Dry)	20 bu	0	0	15	0	0	0		0	0	0	0
Wheat, CWRS													
Calculated Yield	10.2 (Wet)	62 bu	0	115	20	15	0	0	0	0	0	0	0
Calculated Yield	7.9 (Average)	46 bu	0	95	15	0	0	0	0	0	0	0	0
Calculated Yield	4.5 (Dry)	27 bu	0	25	15	0	0	0	0	0	0	0	0

Fertility recommendations are based on spring banding of N, S and seed placement of P, K. Consider total seed row fertilizer with regard to seedling damage. Nitrogen application rates for legumes assume that appropriate inoculation of seeds was undertaken.

High nitrogen rates may be more effective as split application.

The recommendations for Boron are for broadcast and incorporated application. Seed placement of boron is not recommended due to boron toxicity. Foliar application may be

The rate of Phosphorus application is based on seed-placement. Broadcasting and incorporation requirement on the average is 2.5 times that of seed-placement Rates of Potassium less than 30 lbs/acre are for seed-placement. Broadcast and incorporate 60-80 lbs/acre of K2O as a substitute for 15-20 lbs/acre of K2O seed-placed







Northwood: (701) 587-6010 Benson: (320) 843-4109

SOIL TEST REPORT

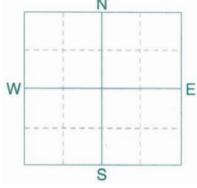
FIELD ID SW 22-7-9W

SAMPLE ID 7 FIELD NAME COUNTY

TWP 7 RANGE

SECTION 22 QTR **SW** ACRES 110

PREV. CROP Wheat-Spring



RFF #

1680414 BOX #

LAB # NW91359

SUBMITTED FOR:

PORCHERIE LAC DU ONZE

SUBMITTED BY: PE0510

PEMBINA COOP-NOTRE DAME

NORTH AGRO 31-6-8

BOX 465

NOTRE DAME, MB

ROG 1M0

Date Sampled 09/27/2016

Date Received 09/30/2016

Date Reported 1/9/2017

0

Nut	rient In	The Soil	Interpretation				15	t Cro	p Choic	е	211	d Cro	p Choic	e	3rd Crop Choice				
			VI.av	Low	Med	High		Canola-bu Canola-bu							Car	nola-bu			
	0-6" 6-24"	9 lb/ac 9 lb/ac		156				YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	-Time	
			****	13				40	BU	1111		50	ви			60	BU		
	0-24"	18 lb/ac					SUG	SESTE	GUIDELIN	IES	sug	GESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	ELINES	
Vitrate	100			File				В	and			Ва	and			E	Band		
	Olsen	14 ppm					LB/A	CRE	APPLICA	TION	LB/A	ACRE	APPLICA	TION	LB/A	ACRE	APPL	CATION	
Phosphorus	Oiseii	14 ррш	*****	*****	*****		N	122			N	157			N	192			
Potassium		179 ppm	*****	*****	*****		PaOs	22	Band	*	P205	28	Band		P206	33	Ba	nd *	
			1	F.			K20	0			K20	0			K20	O			
Chloride	0-6"	120 +lb/ac	*****			****	CI				CI				CI				
Sulfur	6-24"	360 +lb/ac	*****	*****	*****	*****	S	10	Band		S	10	Band		S	10	Ва	and	
Beron				16	18		В				8				8				
tine					- 11		Zn				Zn				Zn				
ron							Fe				Fe				Fa				
Aanganese				-			Min				Mis				Mn				
Tagnesium							Cu				Cu				Cu				
Latcium							Mg		1	_	380				Mg		1		
Sodium							Lime				Lims				Lime		+		
Org.Matter			91										A. 5				1 1 1 1		
arbonate(CCE	i			1			Soil p	н в	uffer pH		on Excl Capacit	-	% Ba	se Sati			oical Ra % Na	nge) % H	
Sol. Salts	0-6" 6-24"	0.66 mmho/cm 0.75 mmho/cm		*****			0-6" 7 5-24" 8						70 Cd	70 141			70 140	70 11	

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests, Crop Removal: P2O5 = 36 K2O = 18 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Northwood: (701) 587-6010 Benson: (320) 843-4109 SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID SW 23-7-9W

SAMPLE ID 8

FIELD NAMERay Dacquay

COUNTY

TWP 7

RANGE 9

SECTION 23 QTRSW ACRES 100

PREV. CROP Flax

SUBMITTED BY: PE0510

PEMBINA COOP-NOTRE DAME

NORTH AGRO 31-6-8

BOX 465

NOTRE DAME, MB

ROG 1MO

W

REF # 1647464 BOX #

LAB # NW75187

Date Sampled 09/15/2016

PORCHERIE NOTRE DAME

Date Received 09/20/2016

Date Reported 1/9/2017

0

Nutrient In	The Soil	In	terpi	retat	ion	15	t Cro	p Choic	e	2n	d Cro	p Choic	e	31	d Cr	op Cho	oice
		VLow	Low		High		Whea	t-Spring			Wheat	t-Spring			Whee	t-Spring	
0-6" 6-24"	15 lb/ac 12 lb/ac						YIEL	GOAL			YIEL	GOAL			YIEL	D GOAL	
0-24	1210/ ac	*****					50	BU			60	BU	111		70	BU	
0-24"	27 lb/ac					SUG	GESTE	GUIDELIN	VES	SuG	GESTEC	GUIDELIN	ES	5UG	GESTE	D GUIDE	LINES
Nitrate							В	and			В	and			E	Band	
						LB/A	CRE	APPLICA	TION	LB//	ACRE	APPLICA	TION	LB/A	ACRE	APPLI	CATION
Olsen	23 ppm	*****	*****	*****	*****	N	108			N	135			N	162	-	
Potassium	278 ppm	*****	*****	*****	*****	P2O5	15	Band (Starte	_	P ₂ O ₅	15	Band (Starter		P2O5	15		and rter)*
0-24" Chloride	24 fb/ac					K20	10	Band (Starte		K20	10	Band (Starter		K30	10	0.0000	and rter)*
0-6" 6-24"	10 lb/ac 30 lb/ac	*****		*****		CI	16	Broadca	ast	CI	16	Broadca	st	CI	16	Broa	dcast
Sulfur						S	9	Band (Tr	ial)	S	9	Band (Tr	ial)	S	9	Band	(Trial)
Zinc				100		В				В				В			
Iron						Zn				Zn				Zn			
Manganese						Fe				Fe				Fe			
Сордел	1.33 ppm	****	*****	*****	i.e.	Mri				Mn				Mn			
Magnesium						Cu	0			Cu	0	1		Cu	0		
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	2.2 %	****	***			C-11		ustan utt	Cati	on Excl	nange	% Ba:	se Sa	turatio	n (Typ	oical Ra	nge)
Carbonate(CCE)						Soil p	ин В	uffer pH		Capacit	ty	% Ca	% N	ig %	K	% Na	% H
0-6" 6-24"	0.24 mmho/cm 0.29 mmho/cm	Commercial				0~6° 7	7										

Crop 1: 35 lbs of 0-0-60 = 16 lbs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 31 K2O = 19 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: 35 lbs of 0-0-60 = 16 lbs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: 35 lbs of 0-0-60 = 16 lbs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 26 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Northwood: (701) 587-6010 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID NW 24-7-9

SAMPLE ID 8 FIELD NAME

COUNTY

TWP

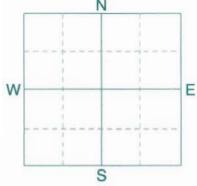
RANGE 9

SUBMITTED BY: PE0510

SECTION QTR NW ACRES 145

PREV. CROP Wheat-Spring

PEMBINA COOP-NOTRE DAME



REF # 1793439

LAB #

BOX # NW171407

SUBMITTED FOR:

JAMAULT FARMS

Date Sampled 11/08/2016

BOX 465

NOTRE DAME, MB

NORTH AGRO 31-6-8

ROG 1M0

Date Received 11/10/2016

Date Reported 1/9/2017

Nutrie	ent In	The Soil	In	terp	retai	tion	15	t Cro	p Choice	à	2n	d Cro	p Choice	e	3r	d Cro	p Cho	ice
			VLow	Low	Med			Car	iola-bu			Can	ola-bu		N/A	Car	ola-bu	757
	0-6" 6-24"	18 lb/ac 27 lb/ac	15	13				YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	
	7	100 00004		***				40	BU			50	BU			60	BU	
C	0-24"	45 lb/ac	20				SUG	SESTE	D GUIDELIN	ES	SUG	GESTED	GUIDELIN	ES	SUG	GESTE	GUIDE	LINES
Nitrate				1				Е	land		l mile	В	and	uning s	THAT	E	and	i mu-
	Olsen	10 ppm	*****	*****			LB/A	CRE	APPLIC A	TION	LB/A	ACRE	APPLICA	TION	LB/A	CRE	APPLI	CATION
Phosphorus						-	N	95			V	130			N	165		
Potassium		249 ppm	*****	****		*****	P205	30	Band	ie .	P205	38	Band	•	P205	45	Bai	nd *
Chloride							K20	0			K20	0			K20	0		
	0-6"	12 lb/ac	1000000	STATISTICS.			CI				CI				CI			
Sulfur	6-24"	24 lb/ac	*****	*****	****		s	17	Band		S	17	Band		S	17	Ва	and
Boren							В				ß				В			
Zinc					-		Zn				Zn		4.		Zn			
Iron							Fe				Fe				Fe			
Manganese Copper		4					Mri				Min				Mn			
Magnesium							Cu				Cu				Cu			
Calcium							Mg				Mg				Mg			
Sodium							Lime				Lime				Lime			
Örg.Matter		3.4 %	****	*****				GII	FIRST ST	Cati	on Exc	hange	% Ba	se Sati	uratio	n (Ty	ical Ra	nge)
Carbonate(CCE)				57		115	Soil	H I	Buffer pH		Capaci	1971	% Ca	% M	g %	6 K	% Na	% H
	0-6" 6-24"	0.39 mmho/cm 0.37 mmho/cm					0-6" 7 6-24" 8	0.00										

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 23 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 A GVISE Band guidelines will build P & K test levels to the medium range over many years.



Northwood: (701) 587-6010 Benson: (320) 843-4109

SUBMITTED FOR:

PORCHERIE LAC DU ONZE

SOIL TEST REPORT

FIELD ID WH 27-7-9w

SAMPLE ID 1

FIELD NAME Rheault

COUNTY TWP

SECTION

BOX 465

7

NORTH AGRO 31-6-8

NOTRE DAME, MB

RANGE 9

27 QTR

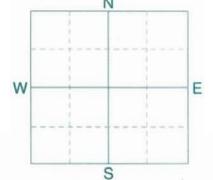
QTR**wH**

SUBMITTED BY: PE0510

H ACRES 128

PREV. CROP Wheat-Spring

PEMBINA COOP-NOTRE DAME



REF # 1608

1608589 BOX #

LAB # **NW56150**

ROG 1MO

Date Sampled 08/24/2016

Date Received 08/28/2016

Date Reported 1/9/2017

Nutrient I	n The Soil	Interpretation	15	t Cro	p Choice	2r	d Cro	p Choice		3rd Cı	op Cho	oice
		VLow Low Med H	igh i	Can	ola-bu		Can	ola-bu		Ca	nola-bu	
0-6" 6-24"	77.77.47			YIELI	GOAL		YIELD	GOAL		YIE	LD GOAL	
	27 15/40	******		40	BU		50	BU		6	o BU	
0-24"	47 lb/ac		SUG	SESTE	GUIDELINES	SUG	GESTED	GUIDELINE	S S	JGGEST	ED GUIDE	LINES
Vitrate				В	and		Ві	and			Band	
			LB/A	CRE	APPLICATION	LB//	ACRE	APPLICATI	ON L	3/ACRE	APPLI	CATION
Olsen Phosphorus	22 ppm	*************	N	93		N	128		N	163		
Potassium	188 ppm	*******************	P ₂ O ₅	10	Band (Starter)*	P2O5	10	Band (Starter)	* P2C	5 10	ĺ	and rter)*
Chloride			K ₂ O	0		K20	0		K20	0		
0-6" 6-24"		SECONDARY DECIDED AND ADDRESS OF THE PARTY O	CI			CI			C			
Sulfur	30 10/ 40	***************************************	5	17	Band	5	17	Band	S	17	В	and
Soron			В			8			В			
Zinc:			Zn			Zn			Zr			
ron			Fe			Fe			Fe			
danganese Copper			Mn			Mn			Mr		1	
1agnesium			Cu			Cu			Cı			
Calcium			Ma			Mg			Mc			
Sodium			Lime			Lime			Lim			
Org.Matter	3.1 %	******						0/ 5				
Carbonate(CCE)			Soil	н в	uffer pH Ca	Capaci		% Ca	% Mg	on (Ty	picai Ra % Na	nge) % H
0-6" 6-24"	0.39 mmho/cm 0.31 mmho/cm		0-6" 7 6-24" 8	0.55				70 00	, orang	70 K	70 110	70 11

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2OS = 54 K2O = 27 A GVISE Band guidelines will build P & K test levels to the medium range over many years.



Northwood: (701) 587-6010 Benson: (320) 843-4109

SUBMITTED FOR:

PORCHERIE LAC DU ONZE

SOIL TEST REPORT

WH 27-7-9w FIFI D ID

SAMPLE ID 2 FIELD NAME COUNTY

TWP

RANGE

ACRES 80 SECTION 27 QTR WH PREV. CROP Alfalfa

> SUBMITTED BY: PE0510

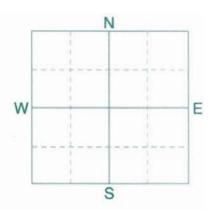
PEMBINA COOP-NOTRE DAME

NORTH AGRO 31-6-8

BOX 465

NOTRE DAME, MB

ROG 1M0



REF # 1608781 BOX # O

LAB # NW56149

Date Sampled 08/24/2016

Date Received 08/28/2016

Date Reported 1/9/2017

Nutrient In	The Soil	In	terpr	etati	on	15	t Cro	p Choic	e	2n	d Cro	p Choic	e	3r	d Cr	op Cho	oice
		VLow	Low		High		Al	falfa			Alf	alfa			,	Alfalfa	
0-6" 6-24"	20 lb/ac 9 lb/ac						YIELI	GOAL			YIELD	GOAL			YIE	LD GOAL	
	3 10, 00	*****					3	Tons			4	Tons			5	Tons	
0-24"	29 lb/ac					SUGO	SESTE	GUIDELIN	NES	SUG	SESTED	GUIDELIN	ES	sug	GEST	D GUIDE	LINES
Vitrate		-5					В	and			В	and				Band	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLI	CATION
Olsen	20 ppm	*****	*****	*****		N	0			N	0			N	0		
Potassium	210 ppm	*****	*****	*****	******	P ₂ O ₅	15	Band (Starte		P ₂ O ₅	15	Band (Starte		P ₂ O ₅	15	255	and rter)*
Chloride						K20	31	Band	*	K ₂ O	41	Band	*	K20	52	Bai	nd *
0-6" 6-24"	10 lb/ac 24 lb/ac	The second second		****		CI				CI				CI			
Sulfur						5	7	Band (Ti	rial)	S	7	Band (Tr	ial)	5	7	Band	(Trial)
Soron	0.9 ppm	*****	*****	•		В	1	Broadca	ast	8	1	Broadca	est	В	1	Broa	dcast
Zinc	4.22 ppm	*****	*****	*****		Zn	0			Zn	0			Zn	0		
Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
1 agnesium					200	Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				lime			
Drg.Matter	4.5 %	*****	*****	*****					Cati	on Excl	nange	% Ba	se Satu	ratio	n (Tv	pical Ra	nge)
Carbonate(CCE)						Soil p	Н В	uffer pH		Capacit	-	% Ca	% Mg	-	K	% Na	% H
0-6" 6-24"	0.31 mmho/cm 0.28 mmho/cm	B SECTION AND ADDRESS.				0-6" 7											

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 25 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 30 K20 = 150 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 25 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 40 K20 = 200 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 25 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 50 K20 = 250 A GVISE Band guidelines will build P & K test levels to the medium range over many years.



Grower: Grower Field Name:

DACQUAY

SW 28-7-9 W1

Sampler: Date Samp

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Lot Number:

Received Date:

November 16, 2016 161116_140

November 18, 2016

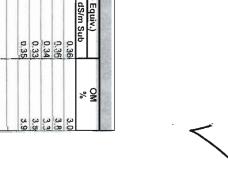
Client ID: 09-0022

113	Delivery Date	113	
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	Deliven		

Zone

Texture Texture

NO.	No.	4	3		Ì	Ď	が北京				_		6	5	4	ω		7116	7000
1.0	1.1	1.2	1.3	1.1	ppm	č.	SPECIAL STREET						2600	3100	4100	4600	4800	ppm	Ca
45.0	38.0	56.0	38.0	16.0	ı	Fø	SCI-2010/100/2018						400	490	410	510	470	ppm	Mg
36.0	15.0	21.0	7.3	2.7		Mn							32	29	20	24	22	ppm	Na
2.3	1.6	1.6	1.5	1.3		Zn	nutrients						17.7	20.4	25.3	28.0	28.9	meq/100g	CEC
0.2	0.2	0.2	0.3	0.2	ı	æ	がの おり に の の の の の の の の の の の の の の の の の の						100.0	100.0	98,0	100.0	100.0	%	Base Sat.
16	14	16	15	13	lb/Ac Surface	C	STATE STATE STATE						74.0	75.0	80.0	82.0	83.0	%	Ca
22	13	20	43	. 24	lb/Ac Sub		THE PERSON NAMED IN						0.8	0.8	0.4	0.4	0.3	%	Na
7.1	7.0	6.9	7.4	7.7	Surface	pH (E STATE OF S			1			6.6	4.6	3.5	2.5	2.3	%	7
	I				Sub Surface	1:2)							19.0	20.0	13.0			%	БМ
					dS/m Surf	EC (Sat. P.	Soil Quality											255-571	Texture
				0.36	dS/m Sub	aste Equiv.)									!		1		
	45.0 36.0 2.3 0.2 16 22 7.1 7.6 0.24	38.0 15.0 1.6 0.2 14 13 7.0 8.3 0.29 45.0 36.0 2.3 0.2 16 22 7.1 7.6 0.24	56.0 21.0 1.6 0.2 16 20 6.9 8.2 0.67 38.0 15.0 1.6 0.2 14 13 7.0 8.3 0.29 45.0 36.0 2.3 0.2 16 22 7.1 7.6 0.24	38.0 7.3 1.5 0.3 15 43 7.4 56.0 21.0 1.6 0.2 16 20 6.9 38.0 15.0 1.6 0.2 14 13 7.0 45.0 36.0 2.3 0.2 16 22 7.1	2.7 1.3 0.2 13 24 7.7 8.2 0.36 7.3 1.5 0.3 15 43 7.4 8.5 0.51 21.0 1.6 0.2 16 20 6.9 8.2 0.67 15.0 1.5 0.2 14 13 7.0 8.3 0.29 36.0 2.3 0.2 16 22 7.1 7.6 0.24	ppm ppm ppm ppm lb/Ac Surface lb/Ac Sub Surface Sub Surface ds/m Surf ds/m Surf 1.1 16.0 2.7 1.3 0.2 13 24 7.7 8.2 0.36 1.3 38.0 7.3 1.5 0.3 15 43 7.4 8.5 0.51 1.2 56.0 21.0 1.6 0.2 16 20 6.9 8.2 0.67 1.1 38.0 15.0 1.5 0.2 14 13 7.0 8.3 0.29 1.0 45.0 36.0 2.3 0.2 16 22 7.1 7.6 0.24	Fe Mn Zn B Cl pH (1:2) EC (Sat Paste Equiv.) ppm ppm ppm lb/Ac Surface lb/Ac Surface Surface Sub Surface dS/m Surf	Micronutrients Soil Quality Cu Fe Mn Zn B Cl pH (1:2) EC (Sat Paste Equiv.) ppm ppm ppm ppm lb/Ac Surface lb/Ac Surface Surface Sub Surface ds/m Surface ds/m Surface ds/m Surface ds/m Surface 0.36 7.7 8.2 0.36 0.36 0.36 0.51	Cu Fe Micronutrients Soil Quality Cu Fe Mn Zn B Cl pH (1:2) EC (Sat Paste Equiv.) ppm ppm ppm ppm lb/Ac Surface lb/Ac Surface Surface Sub Surface dS/m Surf dS/m Surf	Micronutrients Soil Quality Cu Fe Mn Zn B Cl pH (1:2) EC (Sat. Paste Equiv.) 1.1 16.0 2.7 1.3 0.2 13 24 7.7 8.2 0.36 1.3 38.0 7.3 1.5 0.3 15 43 7.4 8.5 0.51 1.1 38.0 21.0 1.6 0.2 16 20 6.9 8.2 0.67 1.1 38.0 21.0 1.6 0.2 16 20 6.9 8.2 0.67 1.1 38.0 25.0 21.0 1.6 0.2 16 20 8.3 0.29 1.1 38.0 25.0 23 0.2 16 20 8.3 0.29 1.1 38.0 25.0 23 0.2 16 20 8.3 0.29 1.1 38.0 25.0 36.0 23 0.2 16	Micronutrients Soil Quality Cu Fe Mn Zn B Cl pH (1:2) EC (Sat. Paste Equiv.) 1.1 16.0 2.7 1.3 0.2 13 24 7.7 8.2 0.36 1.3 38.0 7.3 1.5 0.3 15 43 7.4 8.5 0.51 1.1 38.0 21.0 1.6 0.2 16 20 6.9 8.2 0.67 1.1 38.0 21.0 1.6 0.2 16 20 6.9 8.2 0.67 1.1 38.0 25.0 25.0 2.7 1.6 0.2 16 20 8.2 0.67 1.1 38.0 25.0 2.3 0.2 16 20 8.3 0.29 1.1 38.0 2.7 1.6 0.2 16 22 7.1 7.6 0.24	Micronutrients Soil Quality Cu Fe Mn Zn B Cl pH (1:2) EC (Sat. Paste Equiv.) 1.1 16.0 2.7 1.3 0.2 13 24 7.7 8.2 0.36 1.1 38.0 7.3 1.5 0.3 15 43 7.4 8.5 0.51 1.1 38.0 21.0 1.6 0.2 16 20 6.9 8.2 0.67 1.1 38.0 15.0 1.5 0.2 14 13 7.0 8.3 0.67 1.1 38.0 25.0 36.0 23 0.2 14 13 7.0 8.3 0.67 1.1 38.0 15.0 1.5 0.2 14 13 7.0 8.3 0.67 1.1 38.0 15.0 1.5 0.2 14 13 7.0 8.3 0.29 1.0 45.0 36.0 23 <td< td=""><td>Micronutrients Soil Quality Cu Fe Mn Zn B Cl pH (1:2) EC (Sat. Paste Equiv.) 1.1 16.0 2.7 1.3 0.2 13 24 7.7 8.2 0.36 1.1 38.0 7.3 1.5 0.3 15 43 7.4 8.5 0.51 1.1 38.0 21.0 1.6 0.2 14 20 6.9 8.2 0.67 1.1 38.0 15.0 1.5 0.2 14 13 7.0 8.3 0.67 1.1 38.0 25.0 36.0 23 0.2 14 13 7.0 8.3 0.67 1.1 38.0 7.0 3.5 0.2 14 13 7.0 8.3 0.67 1.1 38.0 15.0 1.5 0.2 14 13 7.0 8.3 0.29 1.0 45.0 36.0 23</td><td> Micronutrients Micronutrients Soil Quality Soil Quality </td><td> 3100 490 29 20.4 100.0 75.0 0.6 4.6 20.0 </td><td>4100 410 20 25.3 98.0 80.0 0.4 3.5 13.0 3100 490 22 20.4 100.0 75.0 0.8 4.6 20.0 2800 400 32 17.7 100.0 74.0 0.8 5.6 19.0 Micronutrients Cu Fe ppm ppm ppm ppm ppm ppm ppm ppm ppm pp</td><td> A600 510 24 28.0 10.0 82.0 0.4 2.5 15.0 15.0 1410 25.3 98.0 0.4 3.5 13.0 13.0 1410 29.2 20.4 100.0 75.0 0.5 4.6 20.0 19.0 1</td><td>4800 470 22 28.9 100.0 83.0 0.3 2.5 14.0 1400 510 24 28.0 100.0 82.0 0.4 2.5 15.0 1400 6100 24 28.0 100.0 82.0 0.4 2.5 15.0 15.0 1400 410 20 25.3 98.0 80.0 0.4 3.5 13.0 13.0 25 13.0 0.4 25.2 13.0 10.0 75.0 0.5 4.6 20.0 10.0 29 20.4 100.0 75.0 0.5 4.6 20.0 10.0 29 20.4 100.0 75.0 0.5 4.6 19.0 10.0 20 14.0 0.8 6.6 19.0 10.0 20 14.0 0.8 6.6 19.0 10.0 14.0 14.0 14.0 14.0 14.0 14.0 14</td><td> Ppm Ppm Ppm meq/100g % % % % % % % % % </td></td<>	Micronutrients Soil Quality Cu Fe Mn Zn B Cl pH (1:2) EC (Sat. Paste Equiv.) 1.1 16.0 2.7 1.3 0.2 13 24 7.7 8.2 0.36 1.1 38.0 7.3 1.5 0.3 15 43 7.4 8.5 0.51 1.1 38.0 21.0 1.6 0.2 14 20 6.9 8.2 0.67 1.1 38.0 15.0 1.5 0.2 14 13 7.0 8.3 0.67 1.1 38.0 25.0 36.0 23 0.2 14 13 7.0 8.3 0.67 1.1 38.0 7.0 3.5 0.2 14 13 7.0 8.3 0.67 1.1 38.0 15.0 1.5 0.2 14 13 7.0 8.3 0.29 1.0 45.0 36.0 23	Micronutrients Micronutrients Soil Quality Soil Quality	3100 490 29 20.4 100.0 75.0 0.6 4.6 20.0	4100 410 20 25.3 98.0 80.0 0.4 3.5 13.0 3100 490 22 20.4 100.0 75.0 0.8 4.6 20.0 2800 400 32 17.7 100.0 74.0 0.8 5.6 19.0 Micronutrients Cu Fe ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	A600 510 24 28.0 10.0 82.0 0.4 2.5 15.0 15.0 1410 25.3 98.0 0.4 3.5 13.0 13.0 1410 29.2 20.4 100.0 75.0 0.5 4.6 20.0 19.0 1	4800 470 22 28.9 100.0 83.0 0.3 2.5 14.0 1400 510 24 28.0 100.0 82.0 0.4 2.5 15.0 1400 6100 24 28.0 100.0 82.0 0.4 2.5 15.0 15.0 1400 410 20 25.3 98.0 80.0 0.4 3.5 13.0 13.0 25 13.0 0.4 25.2 13.0 10.0 75.0 0.5 4.6 20.0 10.0 29 20.4 100.0 75.0 0.5 4.6 20.0 10.0 29 20.4 100.0 75.0 0.5 4.6 19.0 10.0 20 14.0 0.8 6.6 19.0 10.0 20 14.0 0.8 6.6 19.0 10.0 14.0 14.0 14.0 14.0 14.0 14.0 14	Ppm Ppm Ppm meq/100g % % % % % % % % %



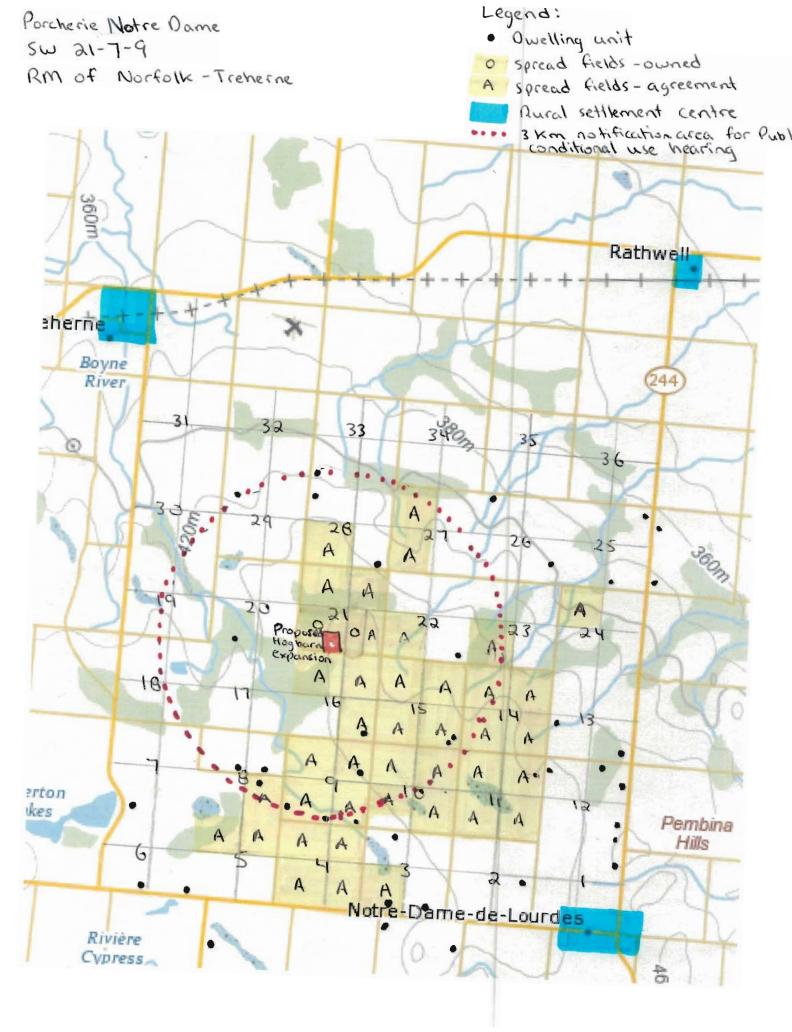
PREVIOUS CROP:CEREAL

CROP ROTATION TABLE



				Total Net Acreage for Manure Application
MASC database	bu/ac	59	457	Winter Wheat
MASC database	bu/ac	38	2199	Canola
MASC database	bu/ac	52.8	2199	Red Spring Wheat
Source of Yleid Information	Units	Historical Yield	Acreage	Expected Crops in the Rotation
Е	D	С	60	Α

<sup>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 B should add up to Total Net Acreage for Manure Application provided in the Manure Application Field Characteristic Table.
C. Enter the histonical yield average for each crop. Long-term yield averages can be determined using MASC data (http://www.masc.mb.ca/masc.ns/findex.html?OpenPage) or on-farm yield records. If 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 histonical yield average provided.</sup>



Pig/Operation Type	Storage Type	Volatilization	Animal Numbers (Places)	Weight In (lb)
Gestating Sow	Liquid Uncovered Earthen	30%		447
Nursing Sow	Liquid Uncovered Earthen	30%		539
Nursing Litter	Liquid Uncovered Earthen	30%		3.1
Live Cull Sow	Liquid Uncovered Earthen	30%		630
Bred Gilt	Liquid Uncovered Earthen	30%		340
Gilts (Purchased)	Liquid Uncovered Earthen	30%		290
Boars (Purchased)	Liquid Uncovered Earthen	30%		270
Weanlings	Liquid Uncovered Earthen	30%		13.6
Growers/Finishers	Liquid Uncovered Earthen	30%	13000	61.6
Sows, farrow to 6.2 kg	Liquid Uncovered Earthen	30%		n/a
Sows, farrow to 28 kg	Liquid Uncovered Earthen	30%		n/a
Sows, farrow to finish	Liquid Uncovered Earthen	30%		n/a

Last Revised April 13, 2016

Weight Out	Average Animal Wt	Days on Feed per Cycle	Number of Cycles for the Place per Year	Feed Consumed Per Pig Per Day	Protein	N Excreted Per Herd Adjusted for Storage N	Phosphorus Content of Feed (DM)	P2O5 Excreted Per Herd Per Year
(lb)	(lb)	(days)	(days)	(kg/day)	%	(lb/yr/herd)	%	(lb/yr/herd)
630	539	121	3	2.3	14%	0	0.53%	0
539	539	21	15.2	6.5	20%	0	0.63%	0
13.6	8	21	15.2	0	n/a	0	n/a	0
630	630	14	26.1	2.3	14%	0	0.46%	0
447	394	121	3	2.3	14%	0	0.53%	0
340	315	28	13.0	3.2	16%	0	0.46%	0
660	465	365	1	2.5	14%	0	0.46%	0
61.6	38	52	6.9	0.7	20%	0	0.64%	0
280	171	112	3	2.8	16%	336822	0.46%	166412
n/a	n/a	365	1	n/a	n/a	0	n/a	0
n/a	n/a	365	1	n/a	n/a	0	n/a	0
n/a	n/a	365	1	n/a	n/a	0	n/a	0

	Rem	oval	Uptake					Rem
Crop	P2O5	N	N	Units	Yield	Units	Acreage	P2O5
								(lb)
Alfalfa	13.8	58	58	lb/ton		ton/ac		-
Barley Grain	0.42	0.97	1.39	lb/bu		bu/ac		-
Barley Silage	11.8	34.4	34.4	lb/ton		ton/ac		-
Canola	1.04	1.93	3.19	lb/bu	38	bu/ac	2199	86904
Corn Grain	0.44	0.97	1.53	lb/bu		bu/ac		-
Corn Silage	12.7	31.2	31.2	lb/ton		tons/ac		-
Dry Edible Beans	1.39	4.17		lb/cwt		cwt/ac		-
Fababeans	1.79	5.02	8.4	lb/cwt		cwt/ac		-
Flax	0.65	2.13	2.88	lb/bu		bu/ac		-
Grass Hay	10	34.2	34.2	lb/ton		tons/ac		-
Lentils	1.03	3.39	5.08	lb/cwt		cwt/ac		-
Oats	0.26	0.62	1.07	lb/bu		bu/ac		-
Pasture (grazed)	10	34.2	34.2	lb/ton	0.5	ton/ac		-
Peas	0.69	2.34	3.06	lb/bu		bu/ac		-
Potatoes	0.09	0.32	0.57	lb/cwt		cwt/ac		-
Rye	0.45	1.06	1.67	lb/bu		bu/ac		-
Soybeans	0.84	3.87	5.2	lb/bu		bu/ac		-
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-
Wheat - Spring	0.59	1.5	2.11	lb/bu	52.8	bu/ac	2199	68503
Wheat - Winter	0.51	1.04	1.35	lb/bu	59	bu/ac	457	13751
						Sub Total	4855	169159
			Estimate	d Average R				34.8
						tional Acres		
				Crop Plann		tional Acres		
					To	tal Acreage	4855	
Note:	Additional	acres inclu	de acres fo	r which crop	removal or	soil data is l	imited or ur	navailable.

Last revised August 20, 2014

oval	Uptake	
N	N	
(lb)	(lb)	
-	-	
-	-	
-	-	
161275	266563	
-	-	
-	-	
-	-	
-	-	
-	-	
-	-	
-	-	
-	-	
-	- - - - -	
-	-	
-	-	
-	-	
-	-	
-	-	
174161	244986	
28042	36400	
363477	547949	
74.9	112.9	

Nutrients Excreted	lbs	
Nitrogen	336822	
P2O5	166412	
Crop Nutrient Use	lb/ac	
Nitrogen Uptake	112.9	
P2O5 Removal	34.8	
Land Base Requirements	acres	
Acres for Nitrogen Uptake	2984	
Acres for 2 x P2O5 Removal	2388	
Acres for 1 x P2O5 Removal	4776	

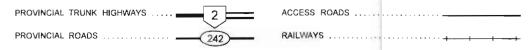


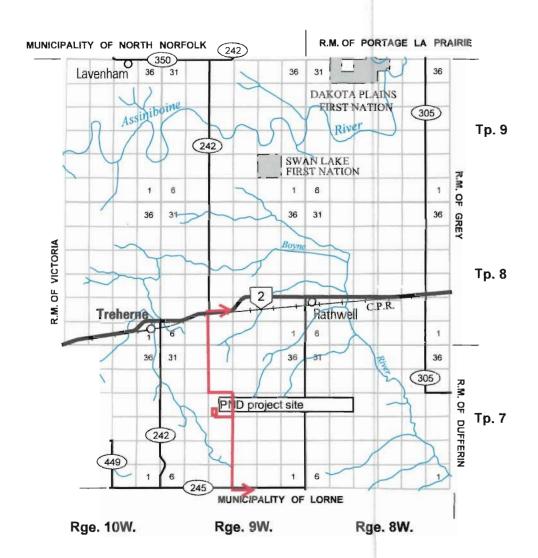
MUNICIPALITY OF NORFOLK TREHERNE



PROVINCE OF MANITOBA
INFRASTRUCTURE
HIGHWAY PLANNING AND DESIGN BRANCH
GEOGRAPHIC & RECORDS MANAGEMENT SECTION
WINNIPEG
JANUARY 1, 2015

LEGEND





Rick Prejet

Friesen, Chris (SD) < Chris.Friesen@gov.mb.ca>

Sent: January-12-17 816 AM

To: lacdonze@mymts.net

Subject: Re: WWW Form Submission

Richard

this time for your area of interest 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

species of concern, nor as a substitute for on-site surveys for species as part of environmental assessments. comprehensive surveys have never been completed. Therefore, this information should be regarded neither as a final statement on the occurrence of any data in any particular geographic area does not necessarily mean that species or ecological communities of concern are not present; in many areas 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 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

before it is utilized 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 Because the Manitoba CDC's Biotics database is continually updated and because information requests are evaluated by type of action, any given response is

the Manitoba Conservation Data Centre; Wildlife & Fisheries Branch, Manitoba Sustainable Development 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 Third party requests for products wholly or partially derived from Biotics must be approved by the Manitoba CDC before information is released. Once

permits or approvals required by the Province of Manitoba 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

of the area 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

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

Chris Friesen
Coordinator
Manitoba Conservation Data Centre

204-945-7747 chris.friesen@gov.mb.ca http://www.manitoba.ca/conservation/cdc/

Sent: December 29, 2016 5:50 PM

To: Friesen, Chris (SD)

Subject: WWW Form Submission

Below is the result of your feedback form. It was submitted by WWW Information Request () on Thursday, December 29, 2016 at 17:50:16

DocumentID: Manitoba_Conservation

Project Title: Porcherie Notre Dame Ltee

Date Needed: 2017/01/06

Name: Richard Prejet

Company/Organization: Porcherie Notre Dame Ltee

Address: CP 40

City: Notre Dame de Lourdes

Province/State: Manitoba

Phone: 1-204-248-2699

Fax: 1-204-248-2703

Email: lacdonze@mymts.net

Project Description: Expansion of existing hog finisher site. Information requested in Site Assessment for Technical Review.

Information Requested: Rare species identified?

Format Requested: Word Document

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action: Submit

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