

Benson: (320) 843-4109

# **SOIL TEST REPORT**

FIELD ID **1** SAMPLE ID **1** 

FIELD NAME BLUE CLAY

COUNTY

TWP 4 RANGE 3E

SECTION 5 QTRS1/2 ACRES 320

PREV. CROP Oats

**GJ CHEMICAL** 

W \_\_\_\_\_\_E

REF # **3298883** BOX # **57** LAB # **NW54158** 

SUBMITTED FOR:

**BLUE CLAY FARMS** 

PO BOX 63

ARNAUD, MB ROA 0B0

Date Sampled Date Received 08/19/2021 Date Reported 08/20/2021

SUBMITTED BY: GJ2069

Nutrient In	The Soil	In	terp	retati	on	1s	t Cro	p Choic	е	2n	d Cro	p Choic	e	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Corn	-Grain			Soyb	eans			Can	ola-bu	
0-6" 6-24"	10 lb/acre 18 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
0-24	16 10/ acre	****	****				140	BU			45	BU			50	BU	
0-24''	28 lb/acre					SUGO	GESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	IES	SUG	GESTE	O GUIDE	LINES
Nitrate							Band	/Maint.			Band/	Maint.			Band	d/Maint.	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA.	TION	LB/A	CRE	APPLI	CATION
<b>Olsen</b> Phosphorus	52 ppm	*****	*****	*****	*****	N	140			N	***			N	147		
Potassium	735 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	15	Band (2	(2) *	P <sub>2</sub> O <sub>5</sub>	10	Band (Starte)	- 11	P <sub>2</sub> O <sub>5</sub>	10		and ter)*
Chloride						K <sub>2</sub> O	10	Band (2	(2) *	K <sub>2</sub> O	0			K <sub>2</sub> O	0		
<b>0-6"</b> <b>6-24"</b> Sulfur	50 lb/acre 78 lb/acre			******		CI				CI				CI			
Boron						S	0			S	0			S	10	Ва	nd
Zinc	3.10 ppm	****	*****	*****	*****	В				В				В			
Iron						Zn	0			Zn	0			Zn	0		
Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	8.0 %	****	*****	*****	*****	Call			Cati	ion Excl	nange	% Ba	se Sat	turatio	n (Typ	ical Ra	nge)
Carbonate(CCE)						Soil p	и В	uffer pH		Capacit	ty	% Ca	% M	lg %	bΚ	% Na	% H
<b>0-6"</b> <b>6-24"</b> Sol. Salts	0.78 mmho/cm 0.78 mmho/cm			******		0-6" <b>7</b> 6-24" <b>8</b>											

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 52 K2O = 32 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.



Benson: (320) 843-4109
SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID 2 SAMPLE ID

FIELD NAME Nickel

COUNTY

TWP 4 RANGE 3E

SECTION 5 QTRNW ACRES 80

PREV. CROP Canola-bu

SUBMITTED BY: GJ2069

GJ CHEMICAL

PO BOX 63

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # 3298897 BOX # 2263

LAB # **NW77212** 

Date Sampled Date Received 09/09/2021 Date Reported 09/10/2021

Nutrient Ir	1 The Soil	In	iterpi	retati	on	1s	t Cro	p Choice	e	2n	d Cro	p Choice	е	3r	d Cro	op Cho	ice
		VLow	Low	Med	High		Ва	rley			Wheat	-Spring			Cor	n-Grain	
0-6" 6-24"	66 lb/acre 81 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
0-24	or ib/acre	*****	*****	*****	*****		90	BU			60	BU			140	BU	
0-24''	147 lb/acre					SUGG	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Nitrate							Band	/Maint.			Band	Maint.			Ban	d/Maint.	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLI	CATION
<b>Olsen</b> Phosphorus	28 ppm	*****	*****	*****	*****	N	10			N	15			N	21		
Potassium	573 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	42	Band	*	P <sub>2</sub> O <sub>5</sub>	38	Band <sup>3</sup>	*	P <sub>2</sub> O <sub>5</sub>	52	Bar	nd *
Chloride						K <sub>2</sub> O	10	Band (Starte	-	K <sub>2</sub> O	10	Band (Starter	1	K <sub>2</sub> O	10	Band	(2x2) *
0-6" 6-24"	28 lb/acre 36 lb/acre	*****		* * * * * * * * * * * * * * * * * * *		CI				CI				CI			
Sulfur	30 15/ acre	*****	*****	******	***	S	5	Band (Tr	ial)	S	5	Band (Tr	ial)	S	5	Band	(Trial)
Boron						В				В				В			
Zinc	2.03 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn	0		
Iron Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	5.8 %	*****	*****	*****	****				Cat	ion Excl	22000	% Ra	se Sa	turatio	n (Tv	pical Ra	nge)
Carbonate(CCE)						Soil p	Н В	uffer pH	Cat	Capacit		% Ca	% I		K	% Na	% H
0-6" 6-24" Sol. Salts	0.48 mmho/cm 0.49 mmho/cm	*****				0-6" <b>7</b>	- 1					70 04	,5 .	-3			

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 42 K2O = 45 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109
SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID 3
SAMPLE ID
FIELD NAME RM

COUNTY

TWP 4 RANGE 3E

SECTION 5 QTR NE ACRES 180

PREV. CROP Canola-bu

SUBMITTED BY: GJ2069

GJ CHEMICAL

PO BOX 63

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # **3298898** BOX # **2367** 

LAB # **NW77837** 

Date Sampled Date Received 09/10/2021

Date Reported **09/10/2021** 

Nutrient Ir	1 The Soil	In	terpi	retati	on	1s	t Cro	p Choice	е	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		0	ats			Wheat	-Spring			Ва	ırley	
0-6" 6-24"	11 lb/acre 12 lb/acre						YIELD	GOAL			YIELD	GOAL			YIELI	GOAL	
0 24	12 15/ 46/6	*****	***				140	BU			70	BU			90	BU	
0-24''	23 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GESTE	GUIDE	LINES
Nitrate							Band,	/Maint.			Band/	'Maint.			Band	/Maint.	
						LB/A	CRE	APPLICA:	TION	LB/A	CRE	APPLICA <sup>-</sup>	TION	LB/A	CRE	APPLI	CATION
Olsen Phosphorus	32 ppm	*****	*****	*****	*****	N	117			N	166			N	117		
Potassium	587 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	35	Band	*	P <sub>2</sub> O <sub>5</sub>	44	Band	*	P <sub>2</sub> O <sub>5</sub>	42	Ban	ıd *
Chloride						K <sub>2</sub> O	10	Band (Starte)	-	K <sub>2</sub> O	10	Band (Starte)		K <sub>2</sub> O	10		and ter)*
0-6" 6-24"	62 lb/acre 60 lb/acre			****** *****		CI				CI				CI			
Sulfur	00 15, 4616	****	*****		*****	S	0			S	0			S	0		
Boron						В				В				В			
Zinc	2.12 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn	0		
Iron Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	6.8 %	****	*****	*****	*****				Cati	ion Evel		0/o Ra	SA 53	turatio	n (Tyn	ical Ra	nge)
Carbonate(CCE)						Soil p	Н В	uffer pH		ion Excl Capacit	_	% Ca	% I		<u> </u>	% Na	% H
<b>0-6" 6-24"</b> Sol. Salts	1.1 mmho/cm 0.79 mmho/cm			****** *****	**	0-6" <b>7</b>	- 1										

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 35 K2O = 27 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109
SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID 4
SAMPLE ID FRIESEN
FIELD NAME FRIESEN

COUNTY

TWP 4 RANGE 3E

SECTION 6 QTR NW ACRES 160

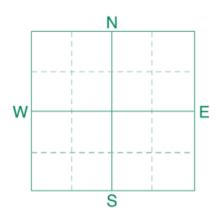
PREV. CROP Soybeans

SUBMITTED BY: GJ2069

GJ CHEMICAL

PO BOX 63

ARNAUD, MB ROA 0B0



REF # 3392563 BOX # 5060

LAB # **NW130638** 

Date Sampled Date Received 09/30/2021 Date Reported 10/04/2021

Nutrient Ir	1 The Soil	In	terpi	retati	on	1s	t Cro	p Choice	Э	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Cano	ola-bu			Wheat	-Spring			C	ats	
0-6" 6-24"	15 lb/acre 12 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
0 24	12 15/ 46/6	*****	****				50	BU			70	BU			140	BU	
0-24''	27 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GESTE	O GUIDE	LINES
Nitrate							Band,	/Maint.			Band/	'Maint.			Band	d/Maint.	
						LB/A	CRE	APPLICA:	TION	LB/A	CRE	APPLICA <sup>-</sup>	ΓΙΟΝ	LB/A	CRE	APPLI	CATION
Olsen Phosphorus	31 ppm	*****	*****	*****	*****	N	133			N	147			N	98		
Potassium	624 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	45	Band	*	P <sub>2</sub> O <sub>5</sub>	44	Band	k	P <sub>2</sub> O <sub>5</sub>	35	Bar	nd *
Chloride						K <sub>2</sub> O	0			K <sub>2</sub> O	10	Band (Starte)	1	K <sub>2</sub> O	10		and ter)*
0-6" 6-24"	18 lb/acre 54 lb/acre	*****				CI				CI				CI			
Sulfur	34 15/ 46/6	****	******	*****	*****	S	15	Band		S	5	Band (Tr	ial)	S	5	Band	(Trial)
Boron						В				В				В			
Zinc	1.69 ppm	*****	*****	*****	****	Zn	0			Zn	0			Zn	0		
Iron Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn		†	
Magnesium						Cu				Cu				Cu		+	
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	5.2 %	****	****	*****	***				C-11	En Fuel		0/o B a	50 S3	turatio	n (Tvr	oical Ra	nge)
Carbonate(CCE)						Soil p	Н В	uffer pH		ion Excl Capacit	_	% Ca	% I		<del>- 1</del>	% Na	% H
0-6" 6-24" Sol. Salts	0.56 mmho/cm 0.55 mmho/cm	*****				0-6" <b>7</b>	- 1										

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



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

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

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID **5** SAMPLE ID

FIELD NAME MUELLER

COUNTY

TWP 4 RANGE 3E

SECTION 4 QTR N1/2 ACRES 320

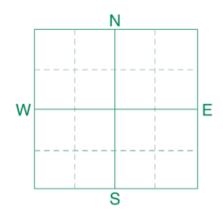
PREV. CROP Wheat-Spring

SUBMITTED BY: GJ2069

GJ CHEMICAL

PO BOX 63

ARNAUD, MB ROA 0B0



REF # **3298876** BOX # **338** 

LAB # **NW55598** 

Date Sampled Date Received 08/21/2021 Date Reported 08/23/2021

Nutrient I	n The Soil	In	terp	retati	ion	1s	t Cro	p Choice	<b>e</b>	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Corn-	-Grain			Soyb	eans			Can	ola-bu	
0-6" 6-24"	29 lb/acre 30 lb/acre						YIELD	GOAL			YIELD	GOAL			YIELD	GOAL	
6-24	30 ів/асте	****	*****	*****	*****		140	BU			45	BU			50	BU	
0-24''	59 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	SESTED	GUIDELIN	ES	SUG	GESTED	GUIDEI	INES
Nitrate							Band/	Maint.			Band/	Maint.			Band	/Maint.	
						LB/A	CRE	APPLICA <sup>*</sup>	TION	LB/A	CRE	APPLICA <sup>-</sup>	ΓΙΟΝ	LB/A	CRE	APPLIC	CATION
Olsen Phosphorus	49 ppm	*****	*****	*****	*****	N	109			N	***			N	116		
Potassium	703 ppm	****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	15	Band (2)	(2) *	P <sub>2</sub> O <sub>5</sub>	10	Band (Starte)	·	P <sub>2</sub> O <sub>5</sub>	10	Ba (Star	ind ter)*
Chloride						K <sub>2</sub> O	10	Band (2)	(2) *	K <sub>2</sub> O	0			K <sub>2</sub> O	0		
0-6" 6-24"	12 lb/acre 48 lb/acre	*****		*****	*****	CI				CI				CI			
Sulfur						S	7	Band (Tr	ial)	S	7	Band (Tr	ial)	S	17	Ва	nd
Zinc	F F0 mm					В				В				В			
Iron	5.50 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn	0		
Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	7.8 %	*****	*****	*****	*****				Cati	on Exch	nange	% Ba	se Sa	turatio	n (Typ	ical Raı	nge)
Carbonate(CCE)						Soil p	Н В	uffer pH		Capacit	_	% Ca	% I		<del>```</del>	% Na	% H
<b>0-6"</b> <b>6-24"</b> Sol. Salts	0.67 mmho/cm 0.64 mmho/cm	*****				0-6" <b>7</b> 6-24" <b>8</b>	- I										

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 52 K2O = 32 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.



Benson: (320) 843-4109

**BLUE CLAY FARMS** 

#### **SOIL TEST REPORT**

FIELD ID 6 NORTH

SAMPLE ID

FIELD NAME COLONY

COUNTY

TWP 3 RANGE 4E

SECTION 9 QTR N1/2 ACRES 320

PREV. CROP Soybeans

SUBMITTED FOR: SUBMITTED BY: GJ2069

**GJ CHEMICAL** 

**PO BOX 63** 

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # 3392586 BOX # 3469

LAB # **NW114140** 

Date Sampled Date Received 09/25/2021 Date Reported 09/28/2021

Nutrient I	n The Soil	In	terp	retati	on	1s	t Cro	p Choic	е	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Wheat	t-Spring			Corn-	-Grain			(	Dats	
0-6" 6-24"	13 lb/acre 6 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
0 24	o ib/ dele	*****	*				70	BU			140	BU			140	BU	
0-24''	19 lb/acre					SUGO	GESTED	GUIDELIN	NES	SUGO	GESTED	GUIDELIN	IES	SUG	GESTE	D GUIDE	LINES
Nitrate							Band	/Maint.			Band/	'Maint.			Band	d/Maint.	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA <sup>-</sup>	TION	LB/A	CRE	APPLI	CATION
Olsen Phosphorus	49 ppm	*****	*****	*****	*****	N	155			N	119			N	106		
Potassium	856 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	15	Band (Starte	-	P <sub>2</sub> O <sub>5</sub>	15	Band (2)	(2) *	P <sub>2</sub> O <sub>5</sub>	15		and ter)*
Chloride						K <sub>2</sub> O	0			K <sub>2</sub> O	0			K <sub>2</sub> O	0		
0-6" 6-24"	52 lb/acre 102 lb/acre			****** *****		CI				CI				CI			
Sulfur						S	0			S	0			S	0		
Boron						В				В				В			
Zinc	6.83 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn	0		
Iron Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	6.8 %	*****	*****	*****	*****	****			Cati	ion Excl	2222	% Ba	se Sa	turatio	n (Tvi	oical Ra	nae)
Carbonate(CCE)						Soil p	Н В	uffer pH		Capacit	_	% Ca	% N		6 K	% Na	% H
<b>0-6" 6-24"</b> Sol. Salts	0.7 mmho/cm 0.76 mmho/cm	*****		***** *****		0-6" <b>7</b>											

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 30 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 52 K2O = 32 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID **6 SE** SAMPLE ID

FIELD NAME COLONY

COUNTY

TWP 4 RANGE 3E

SECTION 9 QTRSE ACRES 160

PREV. CROP Soybeans

SUBMITTED BY: GJ2069

GJ CHEMICAL

**PO BOX 63** 

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # 3392585 BOX # 3528

LAB # **NW114139** 

Date Sampled Date Received 09/25/2021 Date Reported 09/28/2021

Nutrient I	n The Soil	In	iterpi	retati	on	1s	t Cro	p Choice	e	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Wheat	-Spring			Corn	-Grain			C	ats	
0-6" 6-24"	10 lb/acre 6 lb/acre						YIELD	GOAL			YIELD	GOAL			YIELI	GOAL	
0-24	o ib/acie	*****	k				70	BU			140	BU			140	BU	
0-24''	16 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GESTE	GUIDE	LINES
Nitrate							Band	/Maint.			Band,	'Maint.			Band	/Maint.	
						LB/A	CRE	APPLICA.	TION	LB/A	CRE	APPLICA <sup>-</sup>	ΓΙΟΝ	LB/A	CRE	APPLI	CATION
<b>Olsen</b> Phosphorus	52 ppm	*****	*****	*****	*****	N	158			N	122			N	109		
Potassium	714 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	15	Band (Starte)		P <sub>2</sub> O <sub>5</sub>	15	Band (2)	(2) *	P <sub>2</sub> O <sub>5</sub>	15	Ba (Star	nd ter)*
Chloride						K <sub>2</sub> O	10	Band (Starte)		K <sub>2</sub> O	10	Band (2)	(2) *	K <sub>2</sub> O	10		nd ter)*
0-6" 6-24"	38 lb/acre 54 lb/acre			* ***** * *****		CI				CI				CI			
Sulfur						S	0			S	0			S	0		
Zinc	6.74 ppm	*****	****	* *****	*****	В				В				В			
Iron	от тррш	******				Zn	0			Zn	0			Zn	0		
Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	6.6 %	*****	*****	*****	*****				Cat	ion Excl	nange	% Ba	se Sa	turatio	n (Typ	ical Ra	nge)
Carbonate(CCE)						Soil p	НВ	uffer pH		Capacit		% Ca	% N	4g %	к	% Na	% Н
<b>0-6"</b> <b>6-24"</b> Sol. Salts	0.64 mmho/cm 0.7 mmho/cm	*****	******			0-6" <b>7</b> 6-24" <b>8</b>	- 1										

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 30 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 52 K2O = 32 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

**SOIL TEST REPORT** 

FIELD ID **6 SW** SAMPLE ID

FIELD NAME Home SW

COUNTY

TWP 4 RANGE 3E

SECTION 9 QTRSW ACRES 80

PREV. CROP Soybeans

SUBMITTED BY: GJ2069

GJ CHEMICAL

**PO BOX 63** 

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # 3392580 BOX # 3528

LAB # **NW114138** 

Date Sampled Date Received 09/25/2021 Date Reported 09/28/2021

Nutrient Ir	n The Soil	In	terpi	retati	on	1s	t Cro	p Choice	е	2n	d Cro	p Choic	е	31	d Cr	op Cho	ice
		VLow	Low	Med	High		Wheat	-Spring			Corn-	-Grain				Oats	
0-6" 6-24"	12 lb/acre 12 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
0-24	12 lb/ acre	*****	***				70	BU			140	BU			140	) BU	
0-24''	24 lb/acre					SUGO	GESTED	GUIDELIN	IES	SUG	GESTED	GUIDELIN	IES	SUG	GESTE	D GUIDE	LINES
Nitrate							Band	/Maint.			Band/	'Maint.			Ban	d/Maint.	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA <sup>*</sup>	TION	LB/	ACRE	APPLI	CATION
<b>Olsen</b> Phosphorus	38 ppm	*****	*****	*****	*****	N	150			N	114			N	101		
Potassium	719 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	44	Band	*	P <sub>2</sub> O <sub>5</sub>	52	Band	*	P <sub>2</sub> O <sub>5</sub>	35	Ba	nd *
Chloride						K <sub>2</sub> O	10	Band (Starte	-	K <sub>2</sub> O	10	Band (2)	(2) *	K <sub>2</sub> O	10	-	and rter)*
0-6" 6-24"	62 lb/acre 228 lb/acre			*****		CI				CI				CI			
Sulfur	226 10/ acre	*****	*****	*****	*****	S	0			S	0			S	0		
Boron						В				В				В			
Zinc	2.32 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn	0	+	
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn				Mn		+	
Copper						Cu				Cu				Cu			
Magnesium																-	
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	6.5 %	****	*****	*****	*****	Soil p	, <b>u</b> D.	uffer pH	Cat	ion Excl	nange	% Ba	se Sa	turatio	n (Ty	pical Ra	nge)
Carbonate(CCE)						Soil	лп В	uner pH		Capaci	ty	% Ca	% I	<b>4g</b> 9	6 K	% Na	% Н
0-6" 6-24" Sol. Salts	0.7 mmho/cm 0.93 mmho/cm	*****		*****	*	0-6" <b>7</b> 6-24" <b>8</b>	- 1										

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 30 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 52 K2O = 32 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID **7S** SAMPLE ID

FIELD NAME **DEARBORN** 

COUNTY

TWP 4 RANGE 3E

SECTION 10 QTR S1/2 ACRES 300

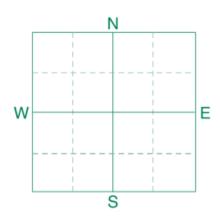
PREV. CROP Barley

SUBMITTED BY: GJ2069

GJ CHEMICAL

PO BOX 63

ARNAUD, MB ROA 0B0



REF # **3298866** BOX # **5759** 

LAB # **NW50098** 

Date Sampled Date Received 08/14/2021 Date Reported 08/16/2021

Nutrient Ir	1 The Soil	In	iterpi	retati	on	1s	t Cro	p Choice	e	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Cano	ola-bu			Corn-	-Grain					
0-6" 6-24"	25 lb/acre 18 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
0-24	10 10/ 4016	*****	*****	*****			50	BU			140	BU					
0-24''	43 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	SESTED	GUIDELIN	ES	SUG	GESTE	O GUIDE	LINES
Nitrate							Band,	/Maint.			Band/	'Maint.					
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLI	CATION
<b>Olsen</b> Phosphorus	40 ppm	*****	*****	*****	*****	N	132			N	125			N			
Potassium	656 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	45	Band	*	P <sub>2</sub> O <sub>5</sub>	52	Band	*	P <sub>2</sub> O <sub>5</sub>			
Chloride						K <sub>2</sub> O	0			K <sub>2</sub> O	10	Band (2)	(2) *	K <sub>2</sub> O			
0-6"	20 lb/acre	*****				CI				CI				CI		+	
<b>6-24"</b> Sulfur	132 lb/acre	*****	*****	*****	*****	S	15	Band		S	0			S			
Boron						В				В				В			
Zinc	3.05 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn			
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn				Mn		+	
Copper Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium										3							
Org.Matter	6.1 %	* * * * * * * * * * * * * * * * * * * *		*****		Lime				Lime				Lime			
Carbonate(CCE)	0.1 %	****	*****	*****	*****	Soil p	Н В	uffer pH		ion Excl	_					oical Ra	
0-6" 6-24" Sol. Salts	0.85 mmho/cm 0.84 mmho/cm			******		0-6" <b>7</b> 6-24" <b>8</b>				Capacit	·y	% Ca	% I	vig 9	o K	% <b>Na</b>	% H

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109
SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID 7N
SAMPLE ID Dearborn
FIELD NAME DEARBORN

COUNTY

TWP 4 RANGE 3E

SECTION 10 QTR N1/2 ACRES 320

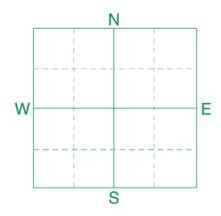
PREV. CROP Corn-Grain

SUBMITTED BY: GJ2069

GJ CHEMICAL

**PO BOX 63** 

ARNAUD, MB ROA 0B0



REF # **3414311** BOX # **506** 

LAB # **NW150500** 

Date Sampled Date Received 10/06/2021 Date Reported 10/08/2021

Nutrient Ir	n The Soil	In	terpi	retati	on	1s	t Cro	p Choice	e	2n	d Cro	p Choic	е	31	d Cr	op Cha	ice
		VLow	Low	Med	High		Wheat	-Spring			Cano	ola-bu					
0-6" 6-24"	40 lb/acre 42 lb/acre						YIELD	GOAL			YIELD	GOAL			YIE	D GOAL	
0-24	42 ID/ acre	*****	*****	*****	*****		70	BU			50	BU					
0-24''	82 lb/acre					SUGO	GESTED	GUIDELIN	IES	SUG	GESTED	GUIDELIN	IES	SUG	GESTE	D GUIDE	LINES
Nitrate							Band	/Maint.			Band/	'Maint.					
						LB/A	CRE	APPLICA <sup>*</sup>	TION	LB/A	CRE	APPLICA <sup>*</sup>	TION	LB/	ACRE	APPLI	CATION
Olsen Phosphorus	36 ppm	****	*****	*****	*****	N	107			N	93			N			
Potassium	615 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	44	Band	*	P <sub>2</sub> O <sub>5</sub>	45	Band	*	P <sub>2</sub> O <sub>5</sub>			
Chloride						K <sub>2</sub> O	10	Band (Starte)	_	K <sub>2</sub> O	0			K <sub>2</sub> O			
0-6" 6-24"	120 +lb/acre 90 lb/acre	*****				CI				CI				CI			
Sulfur	90 lb/ acre	****	*****	*****	*****	S	0			S	10	Band		S			
Boron						В				В				В			
Zinc	4.55 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn			
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn				Mn			
Copper						Cu				Cu				Cu			
Magnesium Calcium																	
Sodium						Mg				Mg				Mg			
Org.Matter	F 7 0/					Lime				Lime				Lime			
Carbonate(CCE)	5.7 %	****	*****	*****	****	Soil p	Н В	uffer pH	Cat	ion Excl	_					pical Ra	
0-6"	0.9 mmho/cm			*****	*	0-6" 7				Capaci	ty	% Ca	% I	Mg 9	6 K	% Na	% H
<b>6-24"</b> Sol. Salts	0.83 mmho/cm	****	*****	*****		6-24" 8											

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109
SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID 8
SAMPLE ID SILO
FIELD NAME SILO

COUNTY

TWP 4 RANGE 3E

SECTION 11 QTRW1/2 ACRES 340

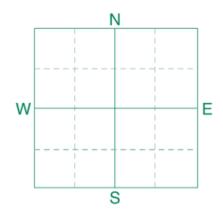
PREV. CROP Corn-Grain

SUBMITTED BY: GJ2069

**GJ CHEMICAL** 

**PO BOX 63** 

ARNAUD, MB ROA 0B0



REF # **3414312** BOX # **1370** 

LAB # **NW155332** 

Date Sampled Date Received 10/07/2021 Date Reported 10/11/2021

Nutrient I	n The Soil	In	terp	retati	on	1s	t Cro	p Choice	е	2n	d Cro	p Choice	е	31	d Cr	op Cho	ice
		VLow	Low	Med	High		Cano	ola-bu									
0-6" 6-24"	65 lb/acre 81 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEl	D GOAL	
0 - 1	02 12, 001 0	*****	*****	*****	*****		50	BU									
0-24''	146 lb/acre					SUGO	GESTED	GUIDELIN	IES	SUGG	SESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Nitrate							Band	/Maint.									
						LB/A	CRE	APPLICA <sup>*</sup>	TION	LB/A	CRE	APPLICA	ΓΙΟΝ	LB/	ACRE	APPLI	CATION
Olsen Phosphorus	36 ppm	*****	*****	*****	*****	N	29			N				N			
Potassium	688 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	45	Band	*	P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			
						K <sub>2</sub> O	0			K <sub>2</sub> O				K <sub>2</sub> O			
Chloride 0-6"	30 lb/acre	*****	*****	*****		CI				CI				CI			
<b>6-24"</b> Sulfur	60 lb/acre	*****				S	15	Band		S				S			
Boron						В				В				В			
Zinc	5.40 ppm	*****	*****	*****	*****	Zn	0			Zn				Zn			
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn				Mn		+	
Copper						Cu				Cu				Cu			
Magnesium																	
Calcium Sodium						Mg				Mg				Mg			
Org.Matter						Lime				Lime				Lime			
Carbonate(CCE)	6.7 %	*****	*****	*****	*****	Soil p	Н В	uffer pH		ion Exch	_					pical Ra	
0-6" 6-24"	0.65 mmho/cm 0.44 mmho/cm	*****		****		0-6" <b>7</b>	- 1			Capacit	ТУ	% Ca	% I	Mg %	% K	% Na	% H

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109
SUBMITTED FOR:

**BLUE CLAY FARMS** 

**SOIL TEST REPORT** 

FIELD ID **9**SAMPLE ID **9** 

FIELD NAMESHELBY

COUNTY

TWP 4 RANGE 3E

SECTION 11 QTRSE ACRES 160

PREV. CROP Wheat-Spring

SUBMITTED BY: GJ2069

**GJ CHEMICAL** 

PO BOX 63

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # **3298877** BOX # **735** 

LAB # **NW61244** 

Date Sampled Date Received 08/28/2021 Date Reported 08/30/2021

Nutrient I	n The Soil	In	terp	retati	ion	1s	t Cro	p Choice	e	2n	d Cro	p Choic	е	3r	d Cro	op Cho	ice
		VLow	Low	Med	High		Soyl	peans			Cano	la-bu					
0-6" 6-24"	41 lb/acre 42 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
3 2 .	12 13, 4616	*****	*****	*****	*****		45	BU			50	BU					
0-24''	83 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Nitrate							Band,	/Maint.			Band/	Maint.					
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA <sup>-</sup>	ΓΙΟΝ	LB/A	CRE	APPLI	CATION
Olsen Phosphorus	40 ppm	*****	*****	*****	*****	N	***			N	92			N			
Potassium	598 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	34	Band	*	P <sub>2</sub> O <sub>5</sub>	45	Band <sup>3</sup>	k	P <sub>2</sub> O <sub>5</sub>			
						K <sub>2</sub> O	0			K <sub>2</sub> O	0			K <sub>2</sub> O			
Chloride 0-6"	42 lb/acre			*****		CI				CI				CI			
<b>6-24"</b> Sulfur	108 lb/acre			*****		S	0			S	15	Band		S			
Boron						В				В				В			
Zinc	2.63 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn			
Iron						Fe				Fe				Fe			
Manganese																	
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	7.6 %	*****	*****	*****	*****	Sail -	ш	uffor nil	Cati	on Exch	nange	% Ba	se Sa	turatio	n (Ty	oical Ra	nge)
Carbonate(CCE)	_					Soil p	оп В	uffer pH		Capacit	у	% Ca	% I	Mg %	σK	% Na	% H
<b>0-6"</b> <b>6-24"</b> Sol. Salts	0.84 mmho/cm 0.73 mmho/cm			******		0-6" <b>7</b> 6-24" <b>8</b>											

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

# **SOIL TEST REPORT**

FIELD ID **10** SAMPLE ID

FIELD NAME **HEINRICKS** 

COUNTY

TWP 4 RANGE 3E

SECTION 15 QTRS part ACRES 290

PREV. CROP Canola-bu

SUBMITTED FOR:

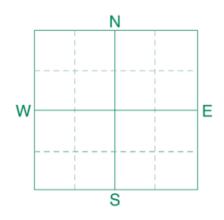
**BLUE CLAY FARMS** 

SUBMITTED BY: GJ2069

GJ CHEMICAL

**PO BOX 63** 

ARNAUD, MB ROA 0B0



REF # 3298902 BOX # 6024

LAB # **NW86357** 

Date Sampled Date Received 09/14/2021 Date Reported 09/15/2021

Nutrient Ir	1 The Soil	In	terpi	retati	on	1s	t Cro	p Choice	e	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Ва	rley			Oa	ats			Whea	t-Spring	
0-6" 6-24"	28 lb/acre 39 lb/acre						YIELD	GOAL			YIELD	GOAL			YIELI	GOAL	
0-24	39 15/ 8016	*****	*****	*****	*****		90	BU			140	BU			70	BU	
0-24''	67 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	IES	SUG	GESTE	GUIDE	LINES
Nitrate							Band	/Maint.			Band/	'Maint.			Band	/Maint.	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLI	CATION
Olsen Phosphorus	34 ppm	*****	*****	*****	*****	N	73			N	73			N	122		
Potassium	726 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	42	Band	*	P <sub>2</sub> O <sub>5</sub>	35	Band :	*	P <sub>2</sub> O <sub>5</sub>	44	Ban	ıd *
Chloride						K <sub>2</sub> O	10	Band (Starte	-	K <sub>2</sub> O	10	Band (Starter	-	K <sub>2</sub> O	10		and ter)*
0-6" 6-24"	44 lb/acre 78 lb/acre			******		CI				CI				CI			
Sulfur	78 ID/ acre	*****	*****	*****	****	S	0			S	0			S	0		
Boron						В				В				В			
Zinc	4.05 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn	0		
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn				Mn			
Copper Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	6.8 %	****	*****	*****	*****	Line											
Carbonate(CCE)	0.0 //					Soil p	Н В	uffer pH		ion Excl	_	% Ba	se Sa % I			ical Ra	nge) % H
0-6" 6-24" Sol. Salts	0.66 mmho/cm 0.58 mmho/cm	*****				0-6" <b>7</b> 6-24" <b>8</b>				Capacii	-9	% Ca	9/0 1	4g 9	OK	70 Na	%0 <b>⊓</b>

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 42 K2O = 45 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 35 K2O = 27 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

# **SOIL TEST REPORT**

FIELD ID **11** SAMPLE ID

FIELD NAME**Zimmer** 

COUNTY

TWP 4 RANGE 3E

SECTION 15 QTR N1/2 ACRES 320

PREV. CROP Barley

SUBMITTED FOR:

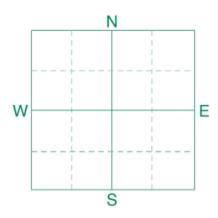
**BLUE CLAY FARMS** 

SUBMITTED BY: GJ2069

**GJ CHEMICAL** 

PO BOX 63

ARNAUD, MB ROA 0B0



REF # 3298867 BOX # 48

LAB # **NW54157** 

Date Sampled Date Received 08/19/2021 Date Reported 08/20/2021

Nutrient Ir	1 The Soil	In	terpi	retati	on	1s	t Cro	p Choice	е	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Cano	ola-bu			Corn-	-Grain					
0-6" 6-24"	5 lb/acre 9 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
0-24	9 lb/ acre	*****					50	BU			140	BU					
0-24''	14 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	IES	SUG	GESTE	D GUIDE	LINES
Nitrate							Band	/Maint.			Band/	'Maint.					
						LB/A	CRE	APPLICA:	TION	LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLI	CATION
<b>Olsen</b> Phosphorus	18 ppm	*****	*****	*****	*****	N	161			N	154			N			
Potassium	543 ppm	****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	45	Band	*	P <sub>2</sub> O <sub>5</sub>	52	Band :	*	P <sub>2</sub> O <sub>5</sub>			
Chloride						K <sub>2</sub> O	0			K <sub>2</sub> O	10	Band (2)	(2) *	K <sub>2</sub> O			
0-6"	6 lb/acre	****				CI				CI				CI		+	
<b>6-24"</b> Sulfur	138 lb/acre	*****	*****	*****	*****	S	20	Band		S	5	Band		S			
Boron						В				В				В		+	
Zinc	2.60 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn			
Iron						Fe				Fe	-			Fe		+	
Manganese																	
Copper						Mn				Mn				Mn		+	
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	5.1 %	****	*****	*****	**	Soil p	"Н В	uffer pH	Cat	ion Excl	nange	% Ba	se Sa	turatio	n (Ty	oical Ra	nge)
Carbonate(CCE)						Suit	П	инег рп		Capacit	ty	% Ca	% I	Mg %	6 K	% Na	% H
<b>0-6"</b> <b>6-24"</b> Sol. Salts	0.57 mmho/cm 0.69 mmho/cm	*****				0-6" <b>7</b> 6-24" <b>8</b>											

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 52 K2O = 32 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109
SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID 12
SAMPLE ID ZIMMER
FIELD NAME ANGUS

COUNTY

TWP 4 RANGE 3E

W1/2

SECTION 16 QTR OF ACRES 160

W1/2

SUBMITTED BY: GJ2069

GJ CHEMICAL

**PO BOX 63** 

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # **3298875** BOX # **338** 

LAB # **NW55597** 

Date Sampled Date Received **08/21/2021** Date Reported **08/23/2021** 

Nutrient I	n The Soil	In	terp	retati	on	1s	t Cro	p Choice	е	2n	d Cro	p Choic	е	31	d Cı	op Cho	ice
		VLow	Low	Med	High		Cano	ola-bu			Soyl	eans					
0-6" 6-24"	21 lb/acre 33 lb/acre						YIELD	GOAL			YIELD	GOAL			YIE	LD GOAL	
5 2 .	20 12, 441 0		*****	*****	***		50	BU			45	BU					
0-24''	54 lb/acre					SUGO	GESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GEST	D GUIDE	LINES
Nitrate							Band,	/Maint.			Band,	'Maint.					
	24					LB/A	CRE	APPLICA:	TION	LB/A	CRE	APPLICA	TION	LB/	ACRE	APPLI	CATION
Olsen Phosphorus	24 ppm	*****	*****	*****	*****	N	121			N	***			N			
Potassium	719 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	45	Band	*	P <sub>2</sub> O <sub>5</sub>	34	Band	*	P <sub>2</sub> O <sub>5</sub>			
Chloride						K <sub>2</sub> O	0			K <sub>2</sub> O	0			K <sub>2</sub> O			
0-6"	32 lb/acre					CI				CI				CI			
<b>6-24"</b> Sulfur	42 lb/acre	*****	*****	*****	****	S	15	Band		S	0			S			
Boron						В				В				В			
Zinc	3.74 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn			
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn			-	Mn			
Copper													$\dashv$				
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	6.4 %	*****	*****	*****	*****	Call		uffor pli	Cat	ion Excl	nange	% Ba	se Sat	uratio	n (Ty	pical Ra	nge)
Carbonate(CCE)						Soil p	лп В	uffer pH		Capacit	ty	% Ca	% M	g º	6 K	% Na	% Н
<b>0-6"</b> <b>6-24"</b> Sol. Salts	0.73 mmho/cm 0.73 mmho/cm			****** *****		0-6" <b>7</b> 6-24" <b>8</b>											

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.



Benson: (320) 843-4109

**BLUE CLAY FARMS** 

#### **SOIL TEST REPORT**

FIELD ID 13
SAMPLE ID GREG
FIELD NAME GREG

COUNTY

TWP 4 RANGE 3E

SECTION 3 QTRW1/2 ACRES 320

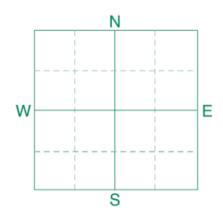
PREV. CROP Canola-bu

SUBMITTED FOR: SUBMITTED BY: GJ2069

**GJ CHEMICAL** 

PO BOX 63

ARNAUD, MB ROA 0B0



REF # 3298900 BOX # 2263

LAB # **NW77213** 

Date Sampled Date Received 09/09/2021 Date Reported 09/10/2021

Nutrient I	n The Soil	In	terp	retati	ion	1s	t Cro	p Choic	е	2n	d Cro	p Choic	е	31	d Cro	p Cho	ice
		VLow	Low	Med	High		Wheat	-Spring			Ba	rley			(	Dats	
0-6" 6-24"	9 lb/acre 15 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
0-24	13 15/ acre	*****	k***				60	BU			80	BU			140	BU	
0-24''	24 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Nitrate							Band	/Maint.			Band/	'Maint.			Ban	d/Maint.	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA <sup>-</sup>	TION	LB/	ACRE	APPLI	CATION
<b>Olsen</b> Phosphorus	19 ppm	*****	*****	*****	*****	N	138			N	100			N	116		
Potassium	604 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	38	Band	*	P <sub>2</sub> O <sub>5</sub>	38	Band	*	P <sub>2</sub> O <sub>5</sub>	35	Bar	nd *
Chloride						K <sub>2</sub> O	10	Band (Starte		K <sub>2</sub> O	10	Band (Starte)		K <sub>2</sub> O	10		and ter)*
0-6" 6-24"	30 lb/acre 66 lb/acre	*****				CI				CI				CI			
Sulfur	oo ib/ acre	*****	*****	******	*****	S	0			S	0			S	0		
Boron						В				В				В			
Zinc	2.58 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn	0		
Iron						Fe				Fe				Fe			
Manganese Copper						Mn				Mn				Mn		+	
Magnesium						Cu				Cu				Cu		+	
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	5.6 %	****	****	*****	****	Lime						0/ =					
Carbonate(CCE)	210 /3					Soil p	н в	uffer pH		ion Excl	_	% Ba	se Sat % M		n (Ty <sub>l</sub>	oical Ra % Na	nge) % H
<b>0-6"</b> <b>6-24"</b> Sol. Salts	0.43 mmho/cm 0.5 mmho/cm	*****		k		0-6" <b>7</b>				прист	,	70 Ca	70 14	9 7		75 146	70 11

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 40 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

#### **SOIL TEST REPORT**

FIELD ID 14 SAMPLE ID

FIELD NAME CATELLIER

COUNTY

TWP 4

GJ CHEMICAL PO BOX 63

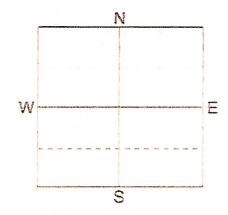
ARNAUD, MB

RANGE 3E

SECTION 13 QTR SW ACRES 160

SUBMITTED BY:

PREV. CROP Canola-bu



REF# 2

2965310 BOX #

10038

LAB #

NW98360

**Date Sampled** 

Date Received 09/22/2020

ROA OBO

GJ2069

Date Reported 9/24/2020

Nutrient In	The Soil	Interpretation	16	t Cr	op Choice	9	2n	d Cro	p Choice	9	31	rd Cr	op Cho	ice
The second secon	and a service production of many species and many dark day become in the Collection (C) beginning the many time for	And the second of the second o	/	E	sarley \	1		0	ats			Whe	at-Spring	
0-6" 6-24"	76 lb/acre 33 lb/acre	A CONTRACTOR OF THE CONTRACTOR	/	YIE	D GOAL			YIELD	GOAL			YIE	LD GOAL	
	33 13/ 44/4	******		90	BU			140	BU			70	) BU	Navana and America
0-24"	109 lb/acre		SUG	SESTE	D GUIDELIN	ES	SUG	GESTED	GUIDELIN	ES	SUG	GEST	D GUIDE	LINES
Nitrate			and the second s	Ban	d/Maint.			Band,	/Maint.			Ban	d/Maint.	
			LB/A	CRE	APPLICAT	TION	LB/A	CRE	APPLICAT	ION	LE/	ACRE	APPL	ICATION
Olsen	44 ppm	*****	N	31			N	31			N	80		
Phosphorus Potassium	669 ppm	******	P <sub>2</sub> O <sub>5</sub>	15	Band (Starter	1	P <sub>2</sub> O <sub>5</sub>	15	5and (Starter	- 1	P <sub>2</sub> O <sub>5</sub>	15	1	and rter)*
Chloride	Editorium period (F)		K <sub>2</sub> O	10	Banc (Starter	2	K₂O	10	Band (Starter	11	K <sub>2</sub> O	10		and rter)*
0-6" 6-24" Selfor		**************************************	СІ				CI	************			а			
Saron	- Annual Control of the Control of t		S	0			S	0			S	0		
Zinc	3.19 ppm	*******************	В				8				В			
Iron	The second secon		Zn	0			Zn	0		and an experience	Zn	0		
Manganese	The state of the s	**************************************	Fe			el des manager (Cras	Fe			And continued and and and and and and and and and an	Fe			
Copper			Mn				Mn			Total Contract	Mn			
Magnesium		And the second s	Cu				Cu			and the second	Cu	. vervinasernal		
Calcium	navertleib.		Mg		The state of the s		Mg				Mg			
Sodium	Alternative Agency		Lime				Lime				Lime			
Org.Matter	6.7 %	*********		1		المحادث	on Exch	3000	% R24	se Saf	uratio	n (Tv	pical Ra	ngel
Carbonate(CCE)			Soil p	H I	Suffer pH		Capacit	_	% Ca	% N		6 K	% Na	% H
0-6" 6-24" Sol. Saits	1.06 mmho/cm 0.75 mmho/cm	***************	0-6" <b>7</b> 6-24" 8	1	horse-many (August	Ann Political States								

Crop 1: "CAUTION: Seed-placed fertilizer can cause injury." May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 42 K2O = 45 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 35 K2O = 27 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

# **SOIL TEST REPORT**

FIELD ID **15** SAMPLE ID

 $\mathsf{FIELD}\;\mathsf{NAME}\,\mathbf{WELL}$ 

COUNTY

TWP 4 RANGE 4E

SECTION 29 QTR N1/2 ACRES 320

PREV. CROP Canola-bu

SUBMITTED FOR:

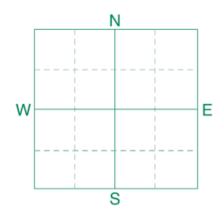
BLUE CLAY FARMS

SUBMITTED BY: GJ2069

GJ CHEMICAL

PO BOX 63

ARNAUD, MB ROA 0B0



REF # **3298906** BOX # **761** 

LAB # **NW61252** 

Date Sampled Date Received **08/28/2021** Date Reported **08/30/2021** 

Nutrient I	n The Soil	In	terp	retati	on	1s	t Cro	p Choice	<b>e</b>	2n	d Cro	p Choic	e	3r	d Cr	op Cho	ice
		VLow	Low	Med	High		Oa	ats			Wheat-	-Spring					
0-6" 6-24"	12 lb/acre 63 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
0-24	03 lb/ acre	*****	*****	*****	*****		140	BU			70	BU					
0-24''	75 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	IES	SUG	GESTE	D GUIDE	LINES
Nitrate							Band/	'Maint.			Band/	'Maint.					
						LB/A	CRE	APPLICA:	TION	LB/A	CRE	APPLICA	TION	LB/	ACRE	APPLI	CATION
<b>Olsen</b> Phosphorus	16 ppm	*****	*****	*****	*****	N	65			N	114			N			
Potassium	422 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	35	Band	*	P <sub>2</sub> O <sub>5</sub>	44	Band	*	P <sub>2</sub> O <sub>5</sub>			
Chloride						K <sub>2</sub> O	10	Band (Starte)		K <sub>2</sub> O	10	Band (Starte)		K <sub>2</sub> O			
0-6" 6-24"	46 lb/acre 162 lb/acre			******		CI				CI				CI			
Sulfur	102 10/ acre	*****	*****	*****	*****	S	0			S	0			S			
Boron						В				В				В			
Zinc	1.24 ppm	*****	*****	*****	*	Zn	0			Zn	0			Zn			
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn				Mn			
C opper Magnesium						Cu				Cu				Cu			
Calcium										Mg				Mg			
Sodium						Mg				Lime							
Org.Matter	5.0 %	****	****	*****		Lime				Lime				Lime	<u> </u>		
Carbonate(CCE)	3.0 70	****	*****	*****	T-T-	Soil p	Н В	uffer pH		ion Excl	_				<u> </u>	o/. No	
<b>0-6"</b> <b>6-24"</b> Sol. Salts	0.66 mmho/cm 0.78 mmho/cm	*****		*****		0-6" <b>8</b>	· 1			Сарасп	Ly	% Ca	% I	vig 9	6 K	% Na	% H

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 35 K2O = 27 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109
SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID **16** SAMPLE ID

FIELD NAME SIEMENS

COUNTY

TWP 4 RANGE 3E

SECTION 32 QTR NW ACRES 160

PREV. CROP Corn-Grain

SUBMITTED BY: GJ2069

**GJ CHEMICAL** 

**PO BOX 63** 

ARNAUD, MB ROA 0B0

W \_\_\_\_\_\_E

REF # **3414317** BOX # **1441** 

LAB # **NW159463** 

Date Sampled Date Received 10/08/2021 Date Reported 10/12/2021

Nutrient I	n The Soil	In	terpi	retati	on	1s	t Cro	p Choice	e	2n	d Cro	p Choice	е	3r	d Cr	op Cho	ice
		VLow	Low	Med	High		Cano	ola-bu									
0-6" 6-24"	77 lb/acre 48 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEl	D GOAL	
J = 1	10 12, 441	*****	*****	*****	*****		50	BU									
0-24''	125 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	SESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Nitrate							Band	/Maint.									
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA	ΓΙΟΝ	LB/	ACRE	APPLI	CATION
Olsen Phosphorus	14 ppm	*****	*****	*****	****	N	50			N				N			
Potassium	548 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	45	Band	*	P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			
						K <sub>2</sub> O	0			K <sub>2</sub> O				K <sub>2</sub> O			
Chloride 0-6"	14 lb/acre	*****	*****			CI				CI				CI			
<b>6-24"</b> Sulfur	54 lb/acre	****			*****	S	17	Band		S				S			
Boron						В				В				В			
Zinc	1.99 ppm	****	*****	*****	*****	Zn	0			Zn				Zn			
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn				Mn			
Copper						Cu				Cu				Cu			
Magnesium Calcium																+	
Sodium						Mg				Mg				Mg			
Org.Matter	F 2.0/					Lime				Lime				Lime	<u> </u>		
Carbonate(CCE)	5.2 %	*****	*****	*****	***	Soil p	Н В	uffer pH		ion Excl	_					pical Ra	
0-6" 6-24" Sol. Salts	0.85 mmho/cm 0.69 mmho/cm	*****		****		0-6" <b>7</b>	·			Capacit	Sy	% Ca	% I	Mg %	6 K	% Na	% H



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# SOIL TEST REPORT

FIELD ID 17
SAMPLE ID HOPE
FIELD NAME HOPE

COUNTY

TWP 4 RANGE 3E

SECTION 6 QTRNE ACRES 160

PREV. CROP Corn-Grain

SUBMITTED BY: GJ2069

**GJ CHEMICAL** 

**PO BOX 63** 

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # **3414318** BOX # **507** 

LAB # **NW150501** 

Date Sampled Date Received 10/06/2021 Date Reported 10/08/2021

Nutrient Ir	1 The Soil	In	terpi	etati	on	1s	t Cro	p Choic	е	2n	d Cro	p Choic	е	3r	d Cr	op Cho	ice
		VLow	Low	Med	High		Cano	ola-bu									
0-6" 6-24"	41 lb/acre 36 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
5 2 .	30 13, 441	*****	*****	*****	*****		50	BU									
0-24''	77 lb/acre					SUGO	SESTED	GUIDELIN	NES	SUGO	GESTED	GUIDELIN	IES	SUG	GESTE	D GUIDE	LINES
Nitrate							Band	/Maint.									
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA	TION	LB/	ACRE	APPLI	CATION
Olsen Phosphorus	21 ppm	****	****	*****	*****	N	98			N				N			
Potassium	456 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	45	Band	*	P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			
						K <sub>2</sub> O	0			K <sub>2</sub> O				K <sub>2</sub> O			
Chloride 0-6"	34 lb/acre	*****	*****	*****	*	CI				CI				CI			
<b>6-24"</b> Sulfur	48 lb/acre			*****		S	15	Band	l	S				S			
Boron						В				В				В			
Zinc	1.77 ppm	*****	*****	*****	****	Zn	0			Zn				Zn			
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn				Mn			
Copper						Cu				Cu				Cu			
Magnesium Calcium						Mg				Mg				Mg			
Sodium																	
Org.Matter	6.7 %					Lime				Lime				Lime			
Carbonate(CCE)	6.7 %	*****	*****	*****	*****	Soil p	Н В	uffer pH		ion Excl	_					pical Ra	
0-6" 6-24" Sol. Salts	0.87 mmho/cm 0.67 mmho/cm	*****		****	*	0-6" <b>7</b> 6-24" <b>8</b>				Capacii	r <b>y</b>	% Ca	% I	Mg %	6 K	% Na	% H



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID **18** SAMPLE ID

FIELD NAME GERHARD

COUNTY

TWP 3 RANGE 3E

SECTION 31 QTR NE ACRES 150

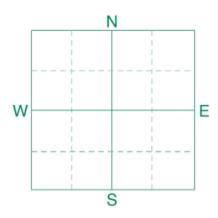
PREV. CROP Soybeans

SUBMITTED BY: GJ2069

GJ CHEMICAL

**PO BOX 63** 

ARNAUD, MB ROA 0B0



REF # **3392555** BOX # **5055** 

LAB # **NW130637** 

Date Sampled Date Received 09/30/2021 Date Reported 10/04/2021

Nutrient Ir	n The Soil	In	terpi	retati	on	1s	t Cro	p Choice	9	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Corn	-Grain			Wheat-	-Spring			Can	ola-bu	
0-6" 6-24"	20 lb/acre 9 lb/acre						YIELD	GOAL			YIELD	GOAL			YIELI	GOAL	
0 24	<i>J</i> 15, acre	*****	*****	k			140	BU			70	BU			50	BU	
0-24''	29 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GESTE	GUIDE	LINES
Nitrate							Band,	/Maint.			Band/	'Maint.			Band	/Maint.	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLI	CATION
<b>Olsen</b> Phosphorus	23 ppm	****	*****	*****	*****	N	109			N	145			N	131		
Potassium	622 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	52	Band	*	P <sub>2</sub> O <sub>5</sub>	44	Band	*	P <sub>2</sub> O <sub>5</sub>	45	Ban	ıd *
Chloride						K <sub>2</sub> O	10	Band (2	(2) *	K <sub>2</sub> O	10	Band (Starte)		K <sub>2</sub> O	0		
0-6" 6-24"	114 lb/acre 102 lb/acre			******		CI				CI				CI			
Sulfur	102 10/ acre	*****	*****	*****	*****	S	0			S	0			S	10	Ba	nd
Boron						В				В				В			
Zinc	1.76 ppm	*****	*****	*****	****	Zn	0			Zn	0			Zn	0		
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn				Mn			
Copper						Cu				Cu				Cu			
Calcium						Mg				Mg			$\dashv$	Mg			
Sodium						Lime				Lime				Lime		-	
Org.Matter	6.7 %	****	****	*****	*****	Lille											
Carbonate(CCE)	3.7 70					Soil p	Н В	uffer pH		ion Excl	_	% Ba	se Sa % I		<del>```</del>	ical Ra	nge) % H
0-6" 6-24" Sol. Salts	0.85 mmho/cm 0.7 mmho/cm	*****		*****		0-6" <b>7</b>				Сарасп	-9	% Ca	%0 I	4g 9	O K	70 Na	% П

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 30 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 52 K2O = 32 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID 19
SAMPLE ID
FIELD NAME 19

COUNTY **2E** 

TWP 26 RANGE 4

SECTION 19 QTR ACRES 480

PREV. CROP Canola-bu

SUBMITTED BY: GJ2069

GJ CHEMICAL

**PO BOX 63** 

ARNAUD, MB ROA 0B0

W \_\_\_\_\_\_E

REF # **3298905** BOX # **1808** 

LAB # **NW74293** 

Date Sampled Date Received 09/08/2021

Date Reported **09/09/2021** 

Nutrient Ir	The Soil	In	terp	retat	ion	1s	t Cro	p Choice	е	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		0	ats			Ba	rley			Wheat	-Spring	
0-6" 6-24"	21 lb/acre 33 lb/acre						YIELD	GOAL GOAL			YIELD	GOAL			YIELD	GOAL	
0-24	33 lb/ acre	*****	*****	*****	* * * *		140	BU			90	BU			70	BU	
0-24''	54 lb/acre					SUGO	GESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GESTED	GUIDE	LINES
Nitrate							Band	/Maint.			Band/	'Maint.			Band	/Maint.	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLIC	CATION
<b>Olsen</b> Phosphorus	24 ppm	*****	*****	*****	*****	N	86			N	86			N	135		
Potassium	565 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	35	Band	*	P <sub>2</sub> O <sub>5</sub>	42	Band	*	P <sub>2</sub> O <sub>5</sub>	44	Ban	ıd *
Chloride						K <sub>2</sub> O	10	Band (Starter	_	K <sub>2</sub> O	10	Band (Starter	·	K <sub>2</sub> O	10	Ba (Star	and ter)*
0-6" 6-24"	120 +lb/acre 90 lb/acre	*****		* *****	* *****	CI				CI				CI			
Sulfur	30 lb/ acre	*****	*****	* * * * * * *	******	S	0			S	0			S	0		
Boron						В				В				В			
Zinc	1.65 ppm	*****	*****	* ****	* ****	Zn	0			Zn	0			Zn	0		
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn				Mn			
Copper Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium							0				0				0		
Org.Matter	6.9 %	***	***	****	* ****	Lime	U			Lime	0			Lime			
Carbonate(CCE)	0.9 %	*****	*****	*****	*****	Soil p	н в	uffer pH		ion Excl	_				· //	ical Rai	
0-6" 6-24" Sol. Salts	0.87 mmho/cm 0.78 mmho/cm			* ****		0-6" <b>6</b>	- 1			Сарасп	У	% Ca	% I	Mg 9	o K	% Na	% H

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 35 K2O = 27 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 42 K2O = 45 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID **20** SAMPLE ID

FIELD NAME GHISLAIN

COUNTY

TWP 4 RANGE 2E

SECTION 27 QTR NE ACRES 160

PREV. CROP Canola-bu

SUBMITTED BY: GJ2069

GJ CHEMICAL

PO BOX 63

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # **3298903** BOX # **897** 

LAB # **NW61251** 

Date Sampled Date Received 08/28/2021 Date Reported 08/30/2021

Nutrient Ir	n The Soil	In	terpi	retati	on	1s	t Cro	p Choice	е	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Wheat	-Spring			Baı	rley			С	ats	
0-6" 6-24"	39 lb/acre 24 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	GOAL	
0-24	24 15/ 8016	*****	*****	*****	*****		70	BU			90	BU			140	BU	
0-24''	63 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	SESTED	GUIDELIN	ES	SUG	GESTE	GUIDE	INES
Nitrate							Band	/Maint.			Band/	Maint.			Band	/Maint.	
						LB/A	CRE	APPLICA <sup>*</sup>	TION	LB/A	CRE	APPLICA <sup>-</sup>	ΓΙΟΝ	LB/A	CRE	APPLIC	CATION
Olsen Phosphorus	16 ppm	*****	*****	*****	*****	N	126			N	77			N	77		
Potassium	512 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	44	Band	*	P <sub>2</sub> O <sub>5</sub>	42	Band <sup>3</sup>	k	P <sub>2</sub> O <sub>5</sub>	35	Ban	d *
Chloride						K <sub>2</sub> O	10	Band (Starte)	-	K <sub>2</sub> O	10	Band (Starte)	1	K <sub>2</sub> O	10	Ba (Star	ind ter)*
0-6" 6-24"	30 lb/acre 78 lb/acre			*****		CI				CI				CI			
Sulfur	76 lb/ acie	*****	*****	*****	*****	S	0			S	0			S	0		
Boron						В				В				В			
Zinc	2.20 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn	0		
Iron						Fe				Fe				Fe			
Manganese Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg		+	
Sodium						Lime	0			Lime	0			Lime	0		
Org.Matter	7.2 %	*****	*****	*****	*****	2						0/ 5-	C-			inal Da	>
Carbonate(CCE)	-					Soil p	Н В	uffer pH	Cat	ion Excl	_	% Ва % Са	se Sa % I		<del>```</del>	ical Rai % Na	nge) % H
0-6" 6-24" Sol. Salts	0.71 mmho/cm 0.97 mmho/cm	*****		*****	*	0-6" <b>6</b>						70 Cd	,,,	.9 //		70 114	70 11

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 42 K2O = 45 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109 SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID **21** SAMPLE ID

FIELD NAME BLUFF

COUNTY

TWP 4 RANGE 2E

SECTION 23 QTRSW ACRES 160

PREV. CROP Corn-Grain

SUBMITTED BY: GJ2069

**GJ CHEMICAL** 

PO BOX 63

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # **3414319** BOX # **513** 

LAB # **NW150762** 

Date Sampled Date Received 10/06/2021 Date Reported 10/09/2021

Nutrient I	n The Soil	In	terp	retati	ion	1s	t Cro	p Choic	е	2n	d Cro	p Choic	e	3r	d Cr	op Cho	ice
		VLow	Low	Med	High		Can	ola-bu									
0-6" 6-24"	36 lb/acre 27 lb/acre						YIELD	GOAL			YIELD	GOAL			YIE	D GOAL	
		*****	*****	*****	*****		50	BU									
0-24''	63 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUG	GESTED	GUIDELIN	IES	SUG	GESTE	D GUIDE	LINES
Nitrate							Band	/Maint.									
Olsen	18 ppm	****	****	*****	*****	LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA <sup>-</sup>	TION	LB/	ACRE	APPLI	CATION
Phosphorus	10 ррш	*****	*****	*******	******	N	112			N				N			
Potassium	662 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	45	Band	*	P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			
Chloride						K <sub>2</sub> O	0			K <sub>2</sub> O				K <sub>2</sub> O			
0-6"	18 lb/acre					CI				CI				CI			
<b>6-24"</b> Sulfur	24 lb/acre	*****	*****	****		S	15	Band		S				S			
Boron						В				В				В			
Zinc	1.21 ppm	*****	*****	*****	k *	Zn	0			Zn				Zn			
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn			$\dashv$	Mn			
Copper						Cu				Cu			-	Cu			
Magnesium ————————————————————————————————————						Mg				Mg			$-\parallel$	Mg			
Sodium													-				
Org.Matter	6.6 %					Lime	0			Lime				Lime			
Carbonate(CCE)	0.6 %	*****	*****	*****	*****	Soil p	н в	uffer pH		on Excl	_					pical Ra	
0-6" 6-24"	0.61 mmho/cm 0.61 mmho/cm					0-6" <b>6</b>	.4			Capaci	ту	% Ca	% M	lg %	6 K	% Na	% H



Benson: (320) 843-4109

SUBMITTED FOR:

BLUE CLAY FARMS

**SOIL TEST REPORT** 

FIELD ID 22 SAMPLE ID

FIELD NAME MARSH

COUNTY

TWP 4 RANGE 2E

SECTION 22 QTRSE ACRES 1600

PREV. CROP Canola-bu

SUBMITTED BY: GJ2069

GJ CHEMICAL

PO BOX 63

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # 3298904 BOX # 2446

LAB # **NW80704** 

Date Sampled Date Received 09/11/2021

Date Reported **09/13/2021** 

Nutrient Ir	1 The Soil	In	terp	retat	ion	<b>1</b> s	t Cro	p Choice	е	2n	d Cro	p Choic	е	3r	d Cro	p Choi	се
		VLow	Low	Med	High		Whea	t-Spring			Baı	rley			0	ats	
0-6" 6-24"	25 lb/acre						YIELD	GOAL			YIELD	GOAL			YIELD	GOAL	
6-24	15 lb/acre	*****	*****	****			70	BU			80	BU			140	BU	
0-24''	40 lb/acre					SUGO	GESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GESTED	GUIDELI	INES
Nitrate							Band	/Maint.			Band/	Maint.			Band	/Maint.	
						LB/A	CRE	APPLICA <sup>-</sup>	TION	LB/A	CRE	APPLICA <sup>-</sup>	TION	LB/A	CRE	APPLIC	ATION
<b>Olsen</b> Phosphorus	44 ppm	*****	*****	*****	*****	N	149			N	84			N	100		
Potassium	738 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	15	Band (Starter		P <sub>2</sub> O <sub>5</sub>	15	Band (Starte)	·	P <sub>2</sub> O <sub>5</sub>	15	Bai (Starte	
Chloride						K <sub>2</sub> O	10	Band (Starte)		K <sub>2</sub> O	10	Band (Starte)		K <sub>2</sub> O	10	Baı (Starte	
0-6" 6-24"	48 lb/acre 30 lb/acre	*****			****** *	CI				CI				CI			
Sulfur						S	0			S	0			S	0		
Zinc	3.28 ppm	****	****	****	*****	В				В				В			
Iron	5126 pp	4-4-4-4-4				Zn	0			Zn	0			Zn	0		
Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime	0			Lime	0			Lime	0		
Org.Matter	7.2 %	*****	*****	*****	*****				Cati	on Excl	nange	% Ba	se Sa	turatio	n (Typ	ical Ran	ge)
Carbonate(CCE)						Soil p	Н В	uffer pH		Capacit	_	% Ca	% !		· //	% Na	% H
<b>0-6"</b> <b>6-24"</b> Sol. Salts	0.9 mmho/cm 0.72 mmho/cm	*****			**	0-6" <b>6</b> 6-24" <b>7</b>	· 1										

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 40 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID SAMPLE ID FIELD NAME LAM

COUNTY

TWP RANGE 2E

QTR N80 ACRES 80 SECTION

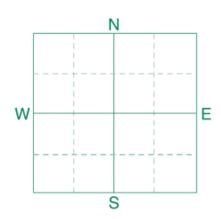
PREV. CROP Wheat-Spring

SUBMITTED BY: GJ2069

**GJ CHEMICAL** 

**PO BOX 63** 

ARNAUD, MB ROA OBO



REF # **3298874** BOX # 338

LAB# NW55596

Date Received **08/21/2021** Date Sampled Date Reported **08/23/2021** 

Nutrient Ir	n The Soil	In	terpi	retati	on	1s	t Cro	p Choice	9	2n	d Cro	p Choic	е	3r	d Cro	op Cho	ice
		VLow	Low	Med	High		Cano	ola-bu			Soyb	eans					
0-6" 6-24"	50 lb/acre 33 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
0-24	33 lb/ acre	*****	*****	*****	*****		50	BU			45	BU					
0-24''	83 lb/acre					SUGG	SESTED	GUIDELIN	IES	SUGO	SESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Nitrate							Band	/Maint.			Band/	Maint.					
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA	ΓΙΟΝ	LB/A	ACRE	APPLI	CATION
<b>Olsen</b> Phosphorus	48 ppm	*****	*****	*****	*****	N	92			N	***			N			
Potassium	660 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	10	Band (Starte)		P <sub>2</sub> O <sub>5</sub>	10	Band (Starter		P <sub>2</sub> O <sub>5</sub>			
Chloride						K <sub>2</sub> O	0			K <sub>2</sub> O	0			K <sub>2</sub> O			
0-6" 6-24"	26 lb/acre 36 lb/acre	*****				CI				CI				CI			
Sulfur	30 15/ acre	*****	******	*****		S	15	Band		S	5	Band (Tr	ial)	S			
Boron						В				В				В			
Zinc	3.61 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn			
Iron						Fe				Fe				Fe			
Manganese Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime	0			Lime	0			Lime			
Org.Matter	7.7 %	*****	*****	*****	*****	2110						0/ 5-	C-		- (T	sieel P-	>
Carbonate(CCE)	-					Soil p	Н В	uffer pH		ion Excl	_	% Ba	se Sa % I		n (Ty	pical Ra % Na	nge) % H
0-6" 6-24" Sol. Salts	0.77 mmho/cm 0.62 mmho/cm	*****		*****		0-6" <b>6</b>	·					70 Cd	,,,	.9 /		75 114	70 11

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them. Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID **24** SAMPLE ID

FIELD NAME**JUNGBLUTH** 

COUNTY

TWP 4 RANGE 2E

E 240

SECTION 15 QTR OF ACRES 240

N1/2

SUBMITTED BY: GJ2069

**GJ CHEMICAL** 

**PO BOX 63** 

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # **3298873** BOX # **335** 

LAB # **NW55595** 

Date Sampled Date Received **08/21/2021** 

Date Reported **08/23/2021** 

Nutrient I	1 The Soil	In	terpi	retati	on	1s	t Cro	p Choice	е	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Can	ola-bu			Soyb	eans					
0-6" 6-24"	58 lb/acre 42 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	O GOAL	
0 24	42 15/ 46/6	*****	*****	*****	*****		50	BU			45	BU					
0-24''	100 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGG	SESTED	GUIDELIN	ES	SUG	GESTE	GUIDE	LINES
Nitrate							Band	/Maint.			Band/	Maint.					
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA <sup>-</sup>	ΓΙΟΝ	LB/A	CRE	APPLIC	CATION
<b>Olsen</b> Phosphorus	42 ppm	*****	*****	*****	*****	N	75			N	***			N			
Potassium	680 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	10	Band (Starte		P <sub>2</sub> O <sub>5</sub>	10	Band (Starter	I	P <sub>2</sub> O <sub>5</sub>			
Chloride						K <sub>2</sub> O	0			K <sub>2</sub> O	0			K <sub>2</sub> O			
0-6" 6-24"	18 lb/acre 132 lb/acre	*****	*****	<b>*</b> *		CI				CI				CI			
Sulfur	132 15/ acre	*****	*****	******	*****	S	15	Band		S	5	Band (Tr	ial)	S			
Boron						В				В				В			
Zinc	3.39 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn			
Iron Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium	<u> </u>					Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime	0			Lime	0			Lime			
Org.Matter	7.7 %	*****	*****	*****	*****				Cati	ion Exch	ange	% Ba	se Sa	turatio	n (Tvi	oical Rai	nge)
Carbonate(CCE)						Soil p	Н В	uffer pH		Capacit	_	% Ca	% I		6 K	% Na	% H
<b>0-6"</b> <b>6-24"</b> Sol. Salts	0.77 mmho/cm 0.58 mmho/cm		*****	****** ***		0-6" <b>6</b>	- 1										

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



lorthwood: (701) 587-601 Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID **25** SAMPLE ID

FIELD NAME LORNE

COUNTY

TWP 1 RANGE 3E

SECTION 21 QTR E1/2 ACRES 320

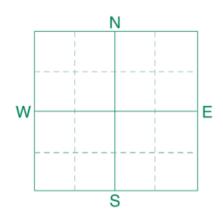
PREV. CROP Soybeans

SUBMITTED BY: GJ2069

GJ CHEMICAL

**PO BOX 63** 

ARNAUD, MB ROA 0B0



REF # **3392564** BOX # **4247** 

LAB # **NW122225** 

Date Sampled Date Received 09/28/2021 Date Reported 09/30/2021

Nutrient Ir	1 The Soil	In	iterpi	retati	on	1s	t Cro	p Choice	Э	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Ba	rley			Wheat-	-Spring			C	ats	
0-6" 6-24"	6 lb/acre 6 lb/acre						YIELD	GOAL			YIELD	GOAL			YIELI	GOAL	
0 24	o ib, acic	****					90	BU			70	BU			140	BU	
0-24''	12 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GESTE	GUIDE	LINES
Nitrate							Band,	/Maint.			Band/	'Maint.			Band	/Maint.	
						LB/A	CRE	APPLICA:	TION	LB/A	CRE	APPLICA <sup>-</sup>	TION	LB/A	CRE	APPLI	CATION
Olsen Phosphorus	9 ppm	*****	*****	k**		N	113			N	162			N	113		
Potassium	382 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	42	Band	*	P <sub>2</sub> O <sub>5</sub>	44	Band	*	P <sub>2</sub> O <sub>5</sub>	35	Ban	ıd *
Chloride						K <sub>2</sub> O	10	Band (Starte)	-	K <sub>2</sub> O	10	Band (Starte)		K <sub>2</sub> O	10		and ter)*
0-6" 6-24"	120 +lb/acre 360 +lb/acre			****** *****		CI				CI				CI			
Sulfur	300 115/ 4616	*****	*****	*****	*****	S	0			S	0			S	0		
Boron						В				В				В			
Zinc	0.81 ppm	*****	*****	***		Zn	0			Zn	0			Zn	0		
Iron Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	5.8 %	****	****	*****	****				C	ion Furt		0/o B a	50 <b>5</b> 3	turatio	n (Tvn	ical Ra	nge)
Carbonate(CCE)						Soil p	Н В	uffer pH	Cat	ion Excl	_	% Ca	% I			% Na	% H
0-6" 6-24" Sol. Salts	0.93 mmho/cm 1.64 mmho/cm			******		0-6" <b>8</b>											

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 42 K2O = 45 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID **26** SAMPLE ID

FIELD NAME CASPER

COUNTY

TWP 1 RANGE 3E

SECTION 22 QTR  $\frac{N1/2}{8.5E}$  ACRES 480

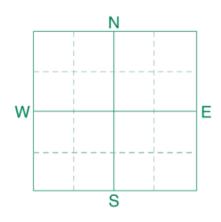
PREV. CROP Soybeans

SUBMITTED BY: GJ2069

GJ CHEMICAL

**PO BOX 63** 

ARNAUD, MB ROA 0B0



REF # **3392579** BOX # **3469** 

LAB # **NW114137** 

Date Sampled Date Received 09/25/2021 Date Reported 09/28/2021

Nutrient Ir	n The Soil	In	terpi	retati	on	1s	t Cro	p Choice	9	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Corn	-Grain			Wheat-	-Spring			C	ats	
0-6" 6-24"	10 lb/acre 6 lb/acre						YIELD	GOAL			YIELD	GOAL			YIELI	GOAL	
0-24	o ib/ acre	*****					140	BU			70	BU			140	BU	
0-24''	16 lb/acre					SUGO	GESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GESTE	GUIDE	LINES
Nitrate							Band	/Maint.			Band/	'Maint.			Band	/Maint.	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLI	CATION
<b>Olsen</b> Phosphorus	10 ppm	*****	*****	****		N	122			N	158			N	109		
Potassium	510 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	52	Band	*	P <sub>2</sub> O <sub>5</sub>	44	Band	*	P <sub>2</sub> O <sub>5</sub>	35	Ban	ıd *
Chloride						K <sub>2</sub> O	10	Band (2	(2) *	K <sub>2</sub> O	10	Band (Starte)		K <sub>2</sub> O	10		and ter)*
0-6" 6-24"	22 lb/acre 360 +lb/acre	****		**** *****		CI				CI				CI			
Sulfur	300 FIB/ acre	*****	*****	*****	*****	S	0			S	0			S	0		
Boron						В				В				В			
Zinc	0.85 ppm	*****	*****	****		Zn	1	Band		Zn	0			Zn	0		
Iron Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	5.9 %	*****	*****	*****	*****							0/s D=	50 50		n (Tv-	ical Ra	ngo)
Carbonate(CCE)						Soil p	Н В	uffer pH		ion Excl	_	% Са	se sa % I		<u> </u>	% Na	mge) % H
0-6" 6-24" Sol. Salts	0.6 mmho/cm 0.86 mmho/cm		*****	***		0-6" <b>8</b>	- 1			•		70 03	,5 1				70.11

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 30 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 52 K2O = 32 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID **27** SAMPLE ID

FIELD NAME **DENNIS** 

COUNTY

TWP 1 RANGE 3E

SECTION 15 QTR NE ACRES 160

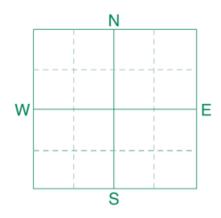
PREV. CROP Canola-bu

SUBMITTED BY: GJ2069

GJ CHEMICAL

PO BOX 63

ARNAUD, MB ROA 0B0



REF # **3298907** BOX # **1504** 

LAB # **NW70245** 

Date Sampled Date Received **09/03/2021** 

Date Reported **09/07/2021** 

Nutrient I	n The Soil	In	terpi	retati	on	1s	t Cro	p Choice	•	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Wheat	-Spring			Baı	rley			(	ats	
0-6" 6-24"	11 lb/acre 6 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
0-24	o ib/ acre	*****	:				70	BU			80	BU			140	BU	
0-24''	17 lb/acre					SUGO	GESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	IES	SUG	GESTE	O GUIDE	LINES
Nitrate							Band/	/Maint.			Band/	Maint.			Band	d/Maint.	
						LB/A	CRE	APPLICA	ΓΙΟΝ	LB/A	CRE	APPLICA <sup>-</sup>	TION	LB/A	CRE	APPLI	CATION
<b>Olsen</b> Phosphorus	8 ppm	*****	*****	k		N	172			N	107			N	123		
Potassium	457 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	44	Band	k	P <sub>2</sub> O <sub>5</sub>	38	Band <sup>1</sup>	*	P <sub>2</sub> O <sub>5</sub>	36	Bar	nd *
Chloride						K <sub>2</sub> O	10	Band (Starte)		K <sub>2</sub> O	10	Band (Starte)		K <sub>2</sub> O	10		and ter)*
0-6" 6-24"	38 lb/acre 318 lb/acre			****** *****		CI				CI				CI			
Sulfur	310 15/ acre	*****	*****	*****	*****	S	0			S	0			S	0		
Boron						В				В				В			
Zinc	0.81 ppm	*****	*****	***		Zn	0			Zn	0			Zn	0		
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn				Mn			
Copper						Cu				Cu				Cu		+	
Magnesium Calcium																+	
Sodium						Mg				Mg				Mg			
Org.Matter	5.4 %					Lime				Lime				Lime			
Carbonate(CCE)	5.4 %	*****	*****	*****	***	Soil p	Н В	uffer pH	Cati	ion Excl	_				<u> </u>	oical Ra	
0-6" 6-24" Sol. Salts	0.66 mmho/cm 0.84 mmho/cm			*****		0-6" <b>8</b> 6-24" <b>8</b>				Capacit	ry .	% Ca	% I	4g %	o K	% <b>Na</b>	% H

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 40 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

**SOIL TEST REPORT** 

FIELD ID **28** SAMPLE ID

FIELD NAME BECKER

COUNTY

TWP 1 RANGE 3E

SECTION 14 QTR NW ACRES 160

PREV. CROP Canola-bu

SUBMITTED BY: GJ2069

GJ CHEMICAL

PO BOX 63

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # **3298908** BOX # **1504** 

LAB # **NW70246** 

Date Sampled Date Received 09/03/2021 Date Reported 09/07/2021

Nutrient Ir	n The Soil	In	iterpi	retati	on	1s	t Cro	p Choice	е	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Wheat	-Spring			Ba	rley			C	ats	
0-6" 6-24"	31 lb/acre 30 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	O GOAL	
0 24	30 15, 4616	*****	*****	*****	*****		70	BU			80	BU			140	BU	
0-24''	61 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GESTE	GUIDE	LINES
Nitrate							Band,	/Maint.			Band/	'Maint.			Band	l/Maint.	
						LB/A	CRE	APPLICA:	TION	LB/A	CRE	APPLICA <sup>-</sup>	TION	LB/A	CRE	APPLI	CATION
Olsen Phosphorus	10 ppm	*****	*****	****		N	128			N	63			N	79		
Potassium	565 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	44	Band	*	P <sub>2</sub> O <sub>5</sub>	38	Band	*	P <sub>2</sub> O <sub>5</sub>	35	Bar	ıd *
Chloride						K <sub>2</sub> O	10	Band (Starte)	-	K <sub>2</sub> O	10	Band (Starte)		K <sub>2</sub> O	10		and ter)*
0-6" 6-24"	62 lb/acre 360 +lb/acre			****** *****		CI				CI				CI			
Sulfur	300 FIB/ acre	*****	*****	*****	*****	S	0			S	0			S	0		
Boron						В				В				В			
Zinc	0.68 ppm	*****	*****	k *		Zn	0			Zn	0			Zn	0		
Iron Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	5.1 %	*****	*****	*****	**							0/s D=	50 50		n (Tvr	ical Ra	ngo)
Carbonate(CCE)						Soil p	Н В	uffer pH	Cat	ion Excl Capacit	_	% Са	se sa % I		<u> </u>	% Na	mge) % H
0-6" 6-24" Sol. Salts	0.88 mmho/cm 1.79 mmho/cm			******		0-6" <b>8</b>				•		70 03	,5 1				70.11

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 40 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109 SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID 29 SAMPLE ID

FIELD NAME LANGE

COUNTY

TWP 1 RANGE 3E

SECTION 15 QTRS1/2 ACRES 320

PREV. CROP Canola-bu

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SUBMITTED BY: GJ2069
GJ CHEMICAL

PO BOX 63

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # **3298909** BOX # **1504** 

LAB # **NW70247** 

Date Sampled Date Received 09/03/2021 Date Reported 09/07/2021

Nutrient I	n The Soil	In	iterp	retat	ion	<b>1</b> s	t Cro	p Choic	е	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Ва	rley			Wheat-	Spring			(	ats	
0-6" 6-24"	23 lb/acre 9 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
0 24	3 157 4616	*****	*****	*			90	BU			70	BU			140	BU	
0-24''	32 lb/acre					SUGO	GESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GESTE	O GUIDE	LINES
Nitrate							Band	/Maint.			Band/	Maint.			Ban	d/Maint.	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA <sup>-</sup>	TION	LB/A	CRE	APPLI	CATION
Olsen Phosphorus	18 ppm	*****	*****	*****	*****	N	108			N	157			N	108		
Potassium	398 ppm	*****	*****	*****	* *****	P <sub>2</sub> O <sub>5</sub>	42	Band	*	P <sub>2</sub> O <sub>5</sub>	44	Band <sup>3</sup>	*	P <sub>2</sub> O <sub>5</sub>	35	Bar	nd *
Chloride						K <sub>2</sub> O	10	Band (Starte		K <sub>2</sub> O	10	Band (Starter		K <sub>2</sub> O	10		and ter)*
0-6" 6-24"	120 +lb/acre 360 +lb/acre				****** *****	CI				CI				CI			
Sulfur	3332, 44.3					S	0			S	0			S	0		
Boron						В				В				В			
Zinc	0.68 ppm	*****	*****	* *		Zn	0			Zn	0			Zn	0		
Iron						Fe				Fe				Fe			
Manganese Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime		+	
Org.Matter	5.1 %	*****	*****	*****	***	2						0/- D-			- /T.	ical Ra	\
Carbonate(CCE)						Soil p	н в	uffer pH		ion Excl	_	% Ва % Са	se Sat		n (Iy <sub>l</sub>	oical Ra	nge) % H
0-6" 6-24"	1.15 mmho/cm 1.6 mmho/cm			*****		0-6" <b>8</b>				Japasi		70 Ca	/U 141	9 7		70 I4a	70 11

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 42 K2O = 45 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109
SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID 30
SAMPLE ID
FIELD NAME PORT

COUNTY

TWP 1 RANGE 3E

SECTION 10 QTR NW ACRES 160

PREV. CROP Canola-bu

SUBMITTED BY: GJ2069

GJ CHEMICAL

PO BOX 63

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # **3298910** BOX # **1808** 

LAB # **NW74294** 

Date Sampled Date Received 09/08/2021 Date Reported 09/09/2021

Nutrient Ir	n The Soil	In	iterp	retati	on	1s	t Cro	p Choice	е	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Wheat	-Spring			Ba	rley			C	ats	
0-6" 6-24"	19 lb/acre 12 lb/acre						YIELD	GOAL			YIELD	GOAL			YIELI	GOAL	
0 24	12 15/ 46/6	*****	*****	k			70	BU			90	BU			140	BU	
0-24''	31 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	IES	SUG	GESTE	GUIDE	LINES
Nitrate							Band,	/Maint.			Band/	'Maint.			Band	/Maint.	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA <sup>-</sup>	TION	LB/A	CRE	APPLI	CATION
Olsen Phosphorus	21 ppm	*****	*****	*****	*****	N	158			N	109			N	109		
Potassium	543 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	44	Band	*	P <sub>2</sub> O <sub>5</sub>	42	Band	*	P <sub>2</sub> O <sub>5</sub>	35	Ban	ıd *
Chloride						K <sub>2</sub> O	10	Band (Starte	-	K <sub>2</sub> O	10	Band (Starte)	_	K <sub>2</sub> O	10		and ter)*
0-6" 6-24"	120 +lb/acre 360 +lb/acre			****** *****		CI				CI				CI			
Sulfur	500 115, 4010					S	0			S	0			S	0		
Boron						В				В				В			
Zinc	0.90 ppm	*****	*****	****		Zn	0			Zn	0			Zn	0		
Iron Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	5.4 %	*****	*****	*****	***				Cat	ion Excl	2222	% Ra	se Sa	turatio	n (Tyn	ical Ra	nge)
Carbonate(CCE)						Soil p	Н В	uffer pH	Cat	Capacit	_	% Ca	% I		<u> </u>	% Na	% H
<b>0-6" 6-24"</b> Sol. Salts	1.02 mmho/cm 1.01 mmho/cm			****** *****		0-6" <b>8</b>											

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 42 K2O = 45 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109
SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID N32
SAMPLE ID
FIELD NAME
COUNTY

TWP 4 RANGE 3E

SECTION 27 QTR SEC ACRES 320

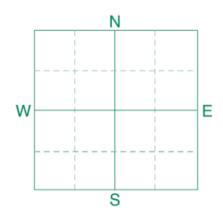
PREV. CROP Wheat-Spring

SUBMITTED BY: GJ2069

**GJ CHEMICAL** 

PO BOX 63

ARNAUD, MB ROA 0B0



REF # **3298878** BOX # **794** 

LAB # **NW61245** 

Date Sampled Date Received 08/28/2021 Date Reported 08/30/2021

Nutrient I	n The Soil	In	terp	retati	on	1s	t Cro	p Choice	е	2n	d Cro	p Choic	е	31	d Cr	op Cho	ice
		VLow	Low	Med	High		Soyl	beans			Cano	ola-bu					
0-6" 6-24"	19 lb/acre 36 lb/acre						YIELD	GOAL			YIELD	GOAL			YIE	LD GOAL	
	22.24, 22.2	*****	*****	*****	****		45	BU			50	BU					
0-24''	55 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Nitrate							Band,	/Maint.			Band,	'Maint.					
Olasar	45					LB/A	CRE	APPLICA <sup>*</sup>	TION	LB/A	CRE	APPLICA <sup>-</sup>	ΓΙΟΝ	LB/	ACRE	APPLI	CATION
Olsen Phosphorus	15 ppm	*****	*****	*****	*****	N	***			N	120			N			
Potassium	534 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	34	Band	*	P <sub>2</sub> O <sub>5</sub>	45	Band <sup>3</sup>	k	P <sub>2</sub> O <sub>5</sub>			
Chloride						K <sub>2</sub> O	0			K <sub>2</sub> O	0			K <sub>2</sub> O			
0-6"	26 lb/acre		*****	****		CI				CI				CI			
<b>6-24"</b> Sulfur	138 lb/acre	*****	*****	*****	*****	S	5	Band (Tr	ial)	S	15	Band		S			
Boron						В				В				В			
Zinc	1.34 ppm	*****	*****	*****	**	Zn	0			Zn	0			Zn			
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn				Mn			
Copper						Cu				Cu				Cu			
Magnesium																	
Calcium						Mg				Mg				Mg			
Sodium Org.Matter						Lime				Lime				Lime			
Carbonate(CCE)	6.6 %	*****	****	*****	*****	Soil p	н в	uffer pH	Cat	ion Excl	_					pical Ra	
0-6"	0.61 mmho/cm	*****						•		Capacit	ty	% Ca	% M	lg %	6 K	% Na	% H
6-24" Sol. Salts	0.81 mmho/cm					0-6" <b>7</b> 6-24" <b>8</b>	- 1										

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.



Benson: (320) 843-4109
SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID **S32**SAMPLE ID
FIELD NAME
COUNTY

TWP **4** 

SECTION 27 QTR Sec ACRES 320

PREV. CROP Wheat-Spring

SUBMITTED BY: GJ2069

RANGE 3E

GJ CHEMICAL PO BOX 63

ARNAUD, MB ROA 0B0

W \_\_\_\_\_\_E

REF # **3298879** BOX # **756** 

LAB # **NW61246** 

Date Sampled Date Received 08/28/2021 Date Reported 08/30/2021

Nutrient I	n The Soil	In	terp	retati	on	1s	t Cro	p Choice	e	2n	d Cro	p Choic	е	31	d Cr	op Cho	ice
		VLow	Low	Med	High		Soyl	beans			Cano	ola-bu					
0-6" 6-24"	6 lb/acre 21 lb/acre						YIELD	GOAL			YIELD	GOAL			YIE	LD GOAL	
	.,	*****	****				45	BU			50	BU					
0-24''	27 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUG	GEST	ED GUIDE	LINES
Nitrate							Band,	/Maint.			Band,	Maint.					
Olsen	22			* *****		LB/A	CRE	APPLICA <sup>*</sup>	TION	LB/A	CRE	APPLICA	TION	LB/	ACRE	APPLI	CATION
Phosphorus	22 ppm	*****	*****	* *****	*****	N	***			N	148			N			
Potassium	461 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	34	Band	*	P <sub>2</sub> O <sub>5</sub>	45	Band <sup>3</sup>	k	P <sub>2</sub> O <sub>5</sub>			
C hloride						K <sub>2</sub> O	0			K <sub>2</sub> O	0			K <sub>2</sub> O			
0-6"	58 lb/acre					CI				CI				CI			
<b>6-24"</b> Sulfur	114 lb/acre	*****	*****	*****	*****	S	0			S	10	Band		S			
Boron						В				В				В			
Zinc	2.74 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn			
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn				Mn			
Copper						Cu				Cu			$\dashv$	Cu			
Magnesium Calcium						Mg				Mg			$\dashv$	Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	7.7 %	****	*****	* ****	*****	Line											
Carbonate(CCE)	7.17 70					Soil p	н В	uffer pH	Cat	ion Excl	_	% Ba	se Sat % M		n (Ty 6 K	pical Ra % Na	nge) % H
<b>0-6"</b> <b>6-24"</b> Sol. Salts	0.79 mmho/cm 0.82 mmho/cm			* * * * * * * *		0-6" <b>7</b>	- 1			Сарасп	-,	70 Ca	-70 IVI	9 7	UK	-70 IVd	70 N

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID **SW33**SAMPLE ID

FIELD NAME**SW33** 

COUNTY

TWP 4 RANGE 3E

SECTION 22 QTRSW ACRES 160

PREV. CROP Oats

SUBMITTED BY: GJ2069

**GJ CHEMICAL** 

**PO BOX 63** 

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # **3298887** BOX # **738** 

LAB # **NW61250** 

Date Sampled Date Received 08/28/2021 Date Reported 08/30/2021

Nutrient I	n The Soil	In	terpi	retati	on	1s	t Cro	p Choice	e	2n	d Cro	p Choice	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Cano	ola-bu			Soyb	eans					
0-6" 6-24"	41 lb/acre 75 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
3 2 .	70 15, 46.6	*****	*****	*****	*****		50	BU			45	BU					
0-24''	116 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	SESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Nitrate							Band,	/Maint.			Band/	Maint.					
						LB/A	CRE	APPLICA <sup>*</sup>	TION	LB/A	CRE	APPLICA	ΓΙΟΝ	LB/A	CRE	APPLI	CATION
Olsen Phosphorus	36 ppm	*****	*****	*****	*****	N	59			N	***			N			
Potassium	606 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	45	Band	*	P <sub>2</sub> O <sub>5</sub>	34	Band <sup>3</sup>	k	P <sub>2</sub> O <sub>5</sub>			
						K <sub>2</sub> O	0			K <sub>2</sub> O	0			K <sub>2</sub> O			
Chloride 0-6"	30 lb/acre	*****	*****	*****		CI				CI				CI			
<b>6-24"</b> Sulfur	126 lb/acre			*****		S	15	Band		S	5	Band (Tr	ial)	S			
Boron						В				В				В			
Zinc	2.53 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn			
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn				Mn		+	
Copper						Cu				Cu				Cu			
Magnesium																	
Calcium						Mg				Mg				Mg			
Sodium Ora Matter						Lime				Lime				Lime			
Org.Matter	7.2 %	*****	*****	*****	*****	Soil p	Н В	uffer pH		on Exch	_				n (Ty	oical Ra	nge)
Carbonate(CCE)  0-6"	0.85 mmho/cm	****	*****	*****						Capacit	У	% Ca	% I	Mg %	o K	% Na	% H
<b>6-24</b> " Sol. Salts	0.83 mmho/cm			*****		0-6" <b>7</b> 6-24" <b>8</b>											

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID **SE33** SAMPLE ID

FIELD NAME SE33

COUNTY

TWP 4 RANGE 3E

SECTION 22 QTRSE ACRES 160

PREV. CROP Oats

SUBMITTED BY: GJ2069

GJ CHEMICAL

**PO BOX 63** 

ARNAUD, MB ROA 0B0

W \_\_\_\_\_\_E

REF # **3298886** BOX # **761** 

LAB # **NW61249** 

Date Sampled Date Received 08/28/2021 Date Reported 08/30/2021

Nutrient Ir	n The Soil	In	terpi	etati	on	1s	1st Crop Choice				2nd Crop Choice				d Cro	op Cho	ice	
		VLow	Low	Med	High		Cano	ola-bu			Soyb	eans						
0-6" 6-24"	21 lb/acre 27 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL		
5 2 .	27 13, 46.6	*****	*****	*****	*		50	BU			45	BU						
0-24''	48 lb/acre					SUGGESTED GUIDELINES				SUGO	SESTED	GUIDELIN	ES	SUGGESTED GUIDELINES				
Nitrate							Band	/Maint.			Band/	Maint.						
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA <sup>-</sup>	TION	LB/A	CRE	APPLI	CATION	
Olsen Phosphorus	38 ppm	*****	*****	*****	*****	N	127			N	***			N				
Potassium	651 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	45	Band	*	P <sub>2</sub> O <sub>5</sub>	34	Band <sup>3</sup>	*	P <sub>2</sub> O <sub>5</sub>				
						K <sub>2</sub> O	0			K <sub>2</sub> O	0			K <sub>2</sub> O				
Chloride 0-6"	56 lb/acre	*****	*****	*****	*****	CI				CI				CI				
<b>6-24"</b> Sulfur	150 lb/acre	*****	*****	*****	*****	S	10	Band		S	0			S				
Boron						В				В				В				
Zinc	2.69 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn				
Iron						Fe				Fe				Fe				
Manganese						Mn				Mn				Mn				
Copper Magnesium						Cu				Cu				Cu				
Calcium						Mg				Mg				Mg				
Sodium						Lime				Lime				Lime				
Org.Matter	6.4 %	*****	*****	*****	*****							0/s P=	50.55		n (T.	sical Ba	ngo)	
Carbonate(CCE)						Soil p	Н В	uffer pH			on Exchange Capacity		se Sa % I		n (Iy	oical Ra	nge) % H	
0-6" 6-24" Sol. Salts	0.8 mmho/cm 0.79 mmho/cm	*****		*****		0-6" <b>7</b>						% Ca		,		.,		

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID 33NW

SAMPLE ID FIELD NAME**33NW** 

COUNTY

TWP 4 RANGE 3E

SECTION 22 QTR NW ACRES 160

PREV. CROP Oats

SUBMITTED BY: GJ2069

GJ CHEMICAL PO BOX 63

ARNAUD, MB ROA 0B0

W \_\_\_\_\_E

REF # **3298884** BOX # **715** 

LAB # **NW61247** 

Date Sampled Date Received **08/28/2021** Date Reported **08/30/2021** 

Nutrient I	n The Soil	In	terpi	retati	on	1st Crop Choice				2n	d Cro	p Choice	е	3r	d Cro	p Cho	ice	
		VLow	Low	Med	High		Cano	ola-bu			Soyb	eans						
0-6" 6-24"	37 lb/acre 54 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL		
3 2 .	3112, 4616	*****	*****	*****	*****		50	BU		45	BU							
0-24''	91 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	SESTED	GUIDELIN	ES	SUGGESTED GUIDELINES				
Nitrate							Band,	/Maint.			Band/	Maint.						
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA <sup>-</sup>	ΓΙΟΝ	LB/A	CRE	APPLI	CATION	
Olsen Phosphorus	12 ppm	*****	*****	*****		N	84			N	***			N				
Potassium	476 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	45	Band	*	P <sub>2</sub> O <sub>5</sub>	34	Band <sup>3</sup>	k	P <sub>2</sub> O <sub>5</sub>				
						K <sub>2</sub> O	0			K <sub>2</sub> O	0			K <sub>2</sub> O				
Chloride 0-6"	20 lb/acre	*****	****			CI				CI				CI				
<b>6-24"</b> Sulfur	96 lb/acre	*****			*****	S	15	Band		S	5	Band (Tr	ial)	S				
Boron						В				В				В		+		
Zinc	1.74 ppm	*****	*****	****	****	Zn	0			Zn	0			Zn				
Iron						Fe				Fe				Fe				
Manganese						Mn				Mn				Mn				
Copper																+		
Magnesium						Cu				Cu				Cu				
Calcium						Mg				Mg				Mg				
Sodium						Lime				Lime				Lime				
O rg.Matter	6.4 %	*****	*****	*****		Soil p	H R	uffer pH	Cati	on Exch	nange	% Base Sa		turatio	n (Ty	oical Ra	nge)	
Carbonate(CCE)	0.77					Jon p		uner pii		Capacity		% Ca	% I	Mg %	o K	% Na	% H	
<b>0-6"</b> <b>6-24"</b> Sol. Salts	0.77 mmho/cm 0.78 mmho/cm			*****		0-6" <b>7</b> 6-24" <b>8</b>												

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

# **SOIL TEST REPORT**

FIELD ID **33NE** SAMPLE ID

FIELD NAME 33NE

COUNTY

TWP 4 RANGE 3E

SECTION 22 QTR NE ACRES 160

PREV. CROP Oats

W \_\_\_\_\_E

REF # **3298885** BOX # **750** LAB # **NW61248** 

#### SUBMITTED FOR:

**BLUE CLAY FARMS** 

ADMC

SUBMITTED BY: GJ2069

**GJ CHEMICAL** 

**PO BOX 63** 

ARNAUD, MB ROA 0B0

Date Sampled Date Received 08/28/2021 Date Reported 08/30/2021

Nutrient Ir	n The Soil	In	terpi	retati	on	1s	1st Crop Choice				2nd Crop Choice				d Cro	op Cho	ice	
		VLow	Low	Med	High		Cano	ola-bu			Soyb	eans						
0-6" 6-24"	57 lb/acre 27 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL		
5 2 .	27 13, 46.6	*****	*****	*****	*****		50	BU			45	BU						
0-24''	84 lb/acre					SUGO	SUGGESTED GUIDELINES				SESTED	GUIDELIN	ES	SUGGESTED GUIDELINES				
Nitrate							Band	/Maint.			Band/	Maint.						
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA	ΓΙΟΝ	LB/A	ACRE	APPLI	CATION	
Olsen Phosphorus	8 ppm	****	*****			N	91			N	***			N				
Potassium	452 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	45	Band	*	P <sub>2</sub> O <sub>5</sub>	36	Band <sup>3</sup>	*	P <sub>2</sub> O <sub>5</sub>				
						K <sub>2</sub> O	0			K <sub>2</sub> O	0			K <sub>2</sub> O				
Chloride 0-6"	58 lb/acre	*****	*****	*****	*****	CI				CI				CI				
<b>6-24"</b> Sulfur	96 lb/acre	*****	*****	*****	*****	S	10	Band		S	0			S				
Boron						В				В				В				
Zinc	0.95 ppm	*****	*****	****		Zn	1	Band		Zn	1	Band		Zn				
Iron						Fe				Fe				Fe				
Manganese						Mn				Mn				Mn				
Copper						Cu				Cu				Cu				
Magnesium Calcium						Mg				Mg				Mg				
Sodium						Lime				Lime				Lime				
Org.Matter	6.2 %	****	*****	*****	****	Line												
Carbonate(CCE)	J.2 //					Soil p	Н В	uffer pH		cion Exchange Capacity		% Base Sa			n (Ty <sub>l</sub> 6 K	pical Ra % Na	nge) % H	
0-6" 6-24" Sol. Salts	1.0 mmho/cm 0.71 mmho/cm	*****		*****	*	0-6" <b>7</b> 6-24" <b>8</b>	- 1			Сарасп	.,	70 Ca	70 1	19 9	UK	-70 INd	70 H	

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109
SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID 3
SAMPLE ID
FIELD NAME
COUNTY

TWP 4 RANGE 3E

SECTION 23 QTR S1/2 ACRES 320

PREV. CROP Barley

SUBMITTED BY: GJ2069

GJ CHEMICAL

**PO BOX 63** 

ARNAUD, MB ROA 0B0

W \_\_\_\_\_\_E

REF # **3298865** BOX # **5319** 

LAB # **NW46384** 

Date Sampled Date Received **08/05/2021** Date Reported **08/06/2021** 

Nutrient Ir	n The Soil	In	terp	retati	ion	1s	t Cro	p Choic	е	2n	d Cro	p Choic	e	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Wheat	-Spring			Soyb	eans			Can	ola-bu	
0-6" 6-24"	15 lb/acre 18 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
0-24	10 15/ 40/ 6	*****	*****	**			70	BU			45	BU			50	BU	
0-24''	33 lb/acre					SUGO	SESTED	GUIDELIN	NES	SUGO	GESTED	GUIDELIN	IES	SUG	GESTE	O GUIDE	LINES
Nitrate							Band,	/Maint.			Band/	Maint.			Band	d/Maint.	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA:	TION	LB/A	CRE	APPLI	CATION
Olsen Phosphorus	24 ppm	*****	*****	*****	*****	N	156			N	***			N	142		
Potassium	424 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	44	Band	*	P <sub>2</sub> O <sub>5</sub>	34	Band	*	P <sub>2</sub> O <sub>5</sub>	45	Bar	nd *
Chloride						K <sub>2</sub> O	10	Band (Starte	-	K <sub>2</sub> O	0			K <sub>2</sub> O	0		
0-6" 6-24"	38 lb/acre 138 lb/acre			* * * * * * * * * * * * * * * * * * * *		CI				CI				CI			
Sulfur						S	0			S	0			S	15	Ва	nd
Boron						В				В				В			
Zinc	2.14 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn	0		
Iron Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime			$\dashv$	Lime		+	
Org.Matter	5.4 %	*****	*****	*****	k***				Cati	ion Frai		0/a Ra	se Sat	uratio	n (Tvr	oical Ra	nge)
Carbonate(CCE)						Soil p	Н В	uffer pH		ion Excl	_	% Ca	% M		<u> </u>	% Na	% H
0-6" 6-24" Sol. Salts	0.83 mmho/cm 0.9 mmho/cm			* * * * * * * * * * * * * * * * * * * *		0-6" <b>8</b>	- 1			•		70 54		,		- 3 - 3 - 4	75.11

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

**SOIL TEST REPORT** 

FIELD ID SAMPLE ID

FIELD NAME Doug section

COUNTY

TWP RANGE 3E

SECTION QTR W1/2 ACRES 240 17

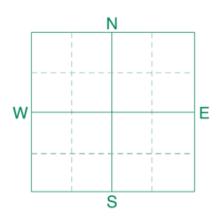
PREV. CROP Canola-bu

SUBMITTED BY: GJ2069

**GJ CHEMICAL** 

**PO BOX 63** 

ARNAUD, MB ROA OBO



REF # 3501144 BOX # 10490

LAB# NW183419

Date Sampled Date Received 10/20/2021 Date Reported 10/26/2021

Nutrient I	n The Soil	In	terp	retati	on	1st Crop Choice				2n	p Choice	е	3r	d Cro	p Cho	ice	
		VLow	Low	Med	High		Corn	-Grain			Wheat-	-Spring			Ва	rley	
0-6" 6-24"	38 lb/acre 48 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	O GOAL	
0-24	40 ID/ acre	*****	*****	*****	*****		150	BU			70	BU			90	) BU	
0-24''	86 lb/acre					SUGGESTED GUIDELINES				SUGO	SESTED	GUIDELIN	ES	SUG	GESTE	GUIDE	LINES
Nitrate						Band/Maint.					Band/	Maint.			Band	l/Maint.	
						LB/A	CRE	APPLICATION		LB/ACRE		APPLICATION		LB/ACRE		APPLICAT	
Olsen Phosphorus	8 ppm	*****	*****	k		N	94			N	103			N	54		
Potassium	621 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	56	Band	*	P <sub>2</sub> O <sub>5</sub>	44	Band <sup>3</sup>	k	P <sub>2</sub> O <sub>5</sub>	42	Ban	nd *
Chloride						K <sub>2</sub> O	10	Band (2)	(2) *	K <sub>2</sub> O	10	Band (Starter		K <sub>2</sub> O	10		and ter)*
0-6" 6-24"	26 lb/acre 54 lb/acre	*****				CI				CI				CI			
Sulfur	54 ID/acre	*****	*****	*****	*****	S	5	Band (Tr	ial)	S	5	Band (Tr	ial)	S	5	Band (	(Trial)
Boron						В				В				В			
Zinc	0.57 ppm	*****	****			Zn	2	Band		Zn	0			Zn	1	Ba	nd
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn			$\overline{}$	Mn			
Copper Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	5.7 %	****	****	*****	****	Lime											
Carbonate(CCE)	3.7 70	· · · · · · · · · · ·	******	*******	*****	Soil pH Bu		Buffer pH		cion Exchange Capacity		% Base Sa			<del>- 1</del>	ical Rai % Na	nge) % H
<b>0-6"</b> <b>6-24"</b> Sol. Salts	0.79 mmho/cm 0.7 mmho/cm	*****		*****		0-6" <b>7</b>				Сарасп	.,	% Ca	% I	19 %		70 INA	%0 FI

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 56 K2O = 35 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

**SOIL TEST REPORT** 

FIELD ID SAMPLE ID

FIELD NAME Hildy quarter

COUNTY

TWP RANGE 3E

SECTION QTR **SE** ACRES **160** 18

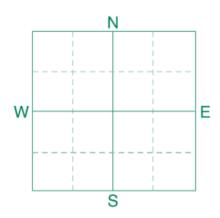
PREV. CROP Canola-bu

SUBMITTED BY: GJ2069

**GJ CHEMICAL** 

**PO BOX 63** 

ARNAUD, MB ROA OBO



REF # 3501161 BOX # 10438

LAB# NW183420

Date Received 10/20/2021 Date Sampled Date Reported 10/21/2021

Nutrient Ir	1 The Soil	In	iterpi	retati	on	1s	1st Crop Choice				2nd Crop Choice					p Cho	ice
		VLow	Low	Med	High		Wheat	-Spring			0	ats			Ва	arley	
0-6" 6-24"	47 lb/acre 42 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
0 24	42 15/ 46/6	*****	*****	*****	*****		70	BU			140	BU			90	BU	
0-24''	89 lb/acre					SUGGESTED GUIDELINES				SUGO	GESTED	GUIDELIN	ES	SUGGESTED GUIDELINE			
Nitrate						Band/Maint.					Band,	Maint.			Band	d/Maint.	
						LB/A	CRE	APPLICA	TION	LB/ACRE		APPLICATION		LB/ACRE		APPLICATIO	
Olsen Phosphorus	12 ppm	****	*****	*****		N	100			N	51			N	51		
Potassium	604 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	44	Band	*	P <sub>2</sub> O <sub>5</sub>	35	Band <sup>3</sup>	k	P <sub>2</sub> O <sub>5</sub>	42	Bar	nd *
Chloride						K <sub>2</sub> O	10	Band (Starte	_	K <sub>2</sub> O	10	Band (Starter	1	K <sub>2</sub> O	10		and ter)*
0-6" 6-24"	26 lb/acre 36 lb/acre	*****		****	ate ate	CI				CI				CI			
Sulfur	30 15/ acre	*****	*****	*****		S	5	Band (Tr	ial)	S	5	Band (Tr	ial)	S	5	Band	(Trial)
Boron						В				В				В			
Zinc	0.86 ppm	*****	*****	****		Zn	0			Zn	0			Zn	0		
Iron Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg		+	
Sodium						Lime				Lime				Lime		+	
Org.Matter	7.1 %	****	****	*****	*****				C	ion Furt		0/o Ba	50 S3	turatio	n (Tvr	oical Ra	nge)
Carbonate(CCE)						Soil p	Н В	uffer pH	Cat	ion Excl	_	% Ca	se sa % I		<u> </u>	% Na	% H
0-6" 6-24" Sol. Salts	1.22 mmho/cm 0.8 mmho/cm			******		0-6" <b>7</b>											

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 35 K2O = 27 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



Benson: (320) 843-4109

SUBMITTED FOR:

**BLUE CLAY FARMS** 

# **SOIL TEST REPORT**

FIELD ID 37 SAMPLE ID

FIELD NAME Hildy Marsh

COUNTY

TWP 4 RANGE 3E

SECTION 7 QTR N80 of NW ACRES 70

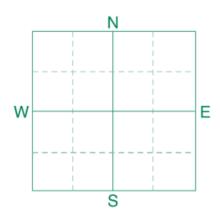
PREV. CROP Soybeans

SUBMITTED BY: GJ2069

GJ CHEMICAL

PO BOX 63

ARNAUD, MB ROA 0B0



REF # **3501163** BOX # **10438** 

LAB # **NW183421** 

Date Sampled Date Received 10/20/2021 Date Reported 10/21/2021

Nutrient I	1 The Soil	In	iterpi	retati	on	1s	t Cro	p Choice	е	2n	d Cro	p Choic	е	3r	d Cro	p Cho	ice
		VLow	Low	Med	High		Wheat	-Spring			Oa	ats			Ва	arley	
0-6" 6-24"	13 lb/acre 12 lb/acre						YIELD	GOAL			YIELD	GOAL			YIEL	O GOAL	
0-24	12 15/ 8016	*****	*****				70 BU					BU		90 BU			
0-24''	25 lb/acre					SUGO	SESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELIN	ES	SUGGESTED GUIDELINES			
Nitrate							Band,	/Maint.			Band/	'Maint.		Band/Maint.			
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICAT	TION	LB/ACRE		APPLI	CATION
Olsen Phosphorus	15 ppm	*****	*****	*****	*****	N	149			N	100			N	100		
Potassium	497 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	44	Band	*	P <sub>2</sub> O <sub>5</sub>	35	Band <sup>3</sup>	*	P <sub>2</sub> O <sub>5</sub>	42	Bar	nd *
Chloride						K <sub>2</sub> O	10	Band (Starte	-	K <sub>2</sub> O	10	Band (Starter	1	K <sub>2</sub> O	10		and ter)*
0-6" 6-24"	30 lb/acre 36 lb/acre			* * * * * * * * * * * * * * * * * * *		CI				CI				CI			
Sulfur	30 15/ 46/6	*****	******			S	5	Band (Tr	ial)	S	5	Band (Tr	ial)	S	5	Band	(Trial)
Boron						В				В				В			
Zinc	0.85 ppm	*****	*****	****		Zn	0			Zn	0			Zn	0		
Iron Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	6.2 %	*****	*****	*****	*****				6-1			0/a P.a	50 S 2	aturation (Typical Ran			nge)
Carbonate(CCE)						Soil pH Buffer pH		Cat	ation Exchange Capacity		% Base Sa			<u> </u>	% Na	% H	
0-6" 6-24" Sol. Salts	0.84 mmho/cm 0.79 mmho/cm			******		0-6" <b>7</b> 6-24" <b>7</b>						70 Cd	,,,	.9 /		,5 Hu	70 11

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 35 K2O = 27 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.