

No soil data available. The same program was followed by the producer.

Spring 2014
101

Spring 2014 Soil Test

A & L Canada Laboratories Inc.



Report Number: C14088-10015
Account Number: 05219

2138 Jetstream Road, London, Ontario, N5V 3P5
Telephone: (519) 457-2575 Fax: (519) 457-2684

To: EMERALD BAY AG SERVICES
507 PINERIDGE ROAD
ARMSTRONG, BC V0E 1B8

For: REGEHR DOUG

Attn: DOUG MACFARLANE
250-548-3847

Grower Code: 05219011

05219-N401

Farm: HOME

Field: HOUSE

Report Date: 2014-04-01 Print Date: 2015-02-22

SOIL TEST REPORT

Page: 1

Sample Number	Legal / Land Descript.	Depth	Lab Number	Organic Matter	Phosphorus - P ppm ilicab Bray #1	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH	CEC meq/100g	Percent Base Saturations					
									pH	Buffer	% K	% Mg	% Ca	% H	% Na	
1011A		0	31003	4.8	63 H	189 H	418 VH	240 M	6.9	6.9	16.5	6.5	12.1	73.9	7.1	0.4
1011B		12	31004	4.0	88 H	210 H	488 VH	245 M	6.9	6.9	16.7	7.2	12.2	73.1	7.0	0.5
1011C		24	31005	2.3	45 M	106 G	373 VH	245 M	6.9	6.9	14.2	6.7	14.4	89.8	8.3	0.8

Sample Number	Sulfur ppm S Resac	Nitrate Nitrogen ppm NO3-N Resac	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts mS/cm	Saturation %P	Aluminum Al ppm	Saturation %Al	Chloride Cl ppm	Sodium Na ppm	Molybdenum Mo ppm		
1011A	11 VL	20	1 VL	2	15.5 VH	35 H	92 VH	3.0 H	0.5 L	0.2 VL	51 H	474	0.1 G	0.54 61	13 L	17 L
1011B	15 VL	27	4 VL	7							60 H	452	0.1 G	0.59 59		19 L
1011C	12 VL	43	7 L	25							23 H	579	0.1 G	0.47 35		27 M

OE VL - VERY LOW L - LOW M - MEDIUM H - HIGH VH - VERY HIGH * G - GOOD, M - MARGINAL, MT - MODERATE PHYTO-TOXIC, T - PHYTO-TOXIC, ST - SEVERE PHYTO-TOXIC

GRAPHIC SUMMARY												
Very High (*High)												Very High (*High)
High (*GOOD)												High (*GOOD)
Medium												Medium
Low												Low
Very Low												Very Low
	P*	%P*	N	K	Mg	Ca	S	Zn	Mn	Fe	Cu	B

SOIL FERTILITY GUIDELINES (lbs/ac)

Sample Number	Previous Crop	Intended Crop	Yield Goal	Lime Tons/Acre	N	P2O5	K2O	Mg	Ca	S	Zn	Mn	Fe	Cu	B

Crop yield is influenced by a number of factors in addition to soil fertility. No guarantee or warranty concerning crop performance is made by A & L.



C14088-10015

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Tet taken April 1st 2014. Soil nitrate levels are very low to low. Only 9 pounds remaining in the top 12" and another 25 pounds available in the 12"-24" level for 34 pounds of Nitrate nitrogen plus the ENR of 155 pounds.

No further nutrients were applied to the crop of 2014.

Fall 2014 - September -

Fall 2014 Soil Test

A & L Canada Laboratories Inc.

2138 Jetstream Road, London, Ontario, N5V 3P5
Telephone: (519) 457-2575 Fax: (519) 457-2884
For: REGEHR DOUG



Report Number: C14267-10034
Account Number: 05219

The EMERALD BAY AG SERVICES
10 MARYS EMERALD BAY ROAD
VERNON, BC V1H 2A7

Attn: DOUG MACFARLANE
250-546-3847

Grower Code: 05219011
Farm: HOME
Field: HOUSE

05219-N539

Report Date: 2014-02-28 Print Date: 2015-02-22

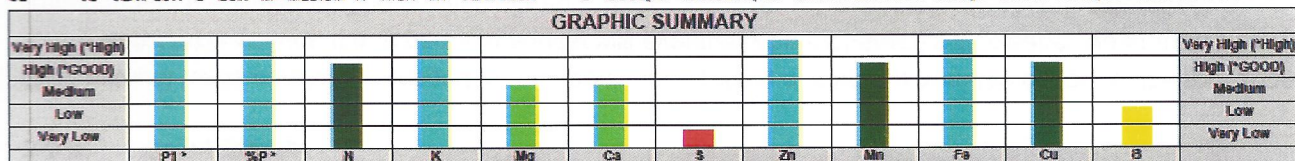
SOIL TEST REPORT

Page: 1

Sample Number	Legal Land Descript.	Depth	Lab Number	Organic Matter	Phosphorus - P ppm Bray P1	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH	CEC meq/100g	Percent Base Saturations	Chloride Cl ppm	Sodium Na ppm	Molybdenum Mo ppm
1011A		6	42601	4.4	100 H	282 H	558 VH	315 M	7.0	18.5	7.8 14.2 84.5 12.9 0.7	17 M	30 M	
1011B		12	42602	4.1	49 G	127 H	421 VH	160 M	7.0	9.3	11.6 14.3 60.2 12.9 1.1		23 H	
1011C		24	42603	2.1	51 G	114 G	618 VH	220 H	7.2	11.3	14.0 16.2 63.8 4.5 1.4		37 H	

Sample Number	Sulfur ppm S testac	Nitrate Nitrogen ppm NO3-N testac	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts meq/100g	Saturation %P	Aluminum Al ppm	Saturation %Al	Chloride Cl ppm	Sodium Na ppm	Molybdenum Mo ppm
1011A	21 VL	38	34 H	61	18.3 VH	45 H	126 VH	2.9 H	0.5 L	0.5 L	68 H	528	0.1 G	0.55 56
1011B	12 VL	22	35 H	63							39 H	419	0.1 G	0.81 53
1011C	14 VL	50	18 M	65							24 H	604	0.1 G	0.86 33

OE VL = VERY LOW L = LOW M = MEDIUM H = HIGH VH = VERY HIGH * G = GOOD, M = MARGINAL, MT = MODERATE PHYTO-TOXIC, T = PHYTO-TOXIC, ST = SEVERE PHYTO-TOXIC



SOIL FERTILITY GUIDELINES (lbs/ac)															
Sample Number	Previous Crop	Intended Crop	Yield Goal	Lime Tons/Acre	N	P2O5	K2O	Mg	Ca	S	Zn	Mn	Fe	Cu	B

Crop yield is influenced by a number of factors in addition to soil fertility. No guarantee or warranty concerning crop performance is made by A & L.



C14267-10034

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Fall of 2014 soil test after harvest.

Medium to high soil nitrate levels present after harvest. This could be from a combination of the delayed release from the previous manure applications and the fact that the early season heat wave in the North Okanagan interfered with grain yield and less was taken up by the plants. Soil organic matter dropped slightly but enough to explain the increase in soil available nitrogen. Spring 2015 soil testing will be done before any manure applications for the 2015 crop are decided upon or done. A balance between crop requirements and leaching potential or expectations will have to be found.

6.3 2015 SPRING SOIL TEST

April 2015 101

A & L Canada Laboratories Inc.


 Report Number: C15097-10025
 Account Number: 05219

 2138 Jetsream Road, London, Ontario, N5V 3P5
 Telephone: (519) 457-2575 Fax: (519) 457-2684
 For: DOUG REGHER

 To: EMERALD BAY AG SERVICES
 10 MARYS EMERALD BAY ROAD
 VERNON, BC V1H 2A7

 Grower Code: 05219093
 Farm: HOME
 Field: 101 HOME

05219-N727

 Attn: DOUG MACFARLANE
 250-548-3847

Report Date: 2015-04-09 Print Date: 2015-04-22

SOIL TEST REPORT

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Report Date: 2019-04-09 Print Date: 2019-04-22																	
Sample Number	Legal Land Descpt:	Depth	Lab Number	Organic Matter	Phosphorus - P ppm Bicarb	Phosphorus - P ppm Bray P1	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH	CEC meq/100g	Percent Base Saturations					
1011A		6	44026	3.4	55 G	131 H	298 VH	210 M	2020 M	6.9	13.9	5.5	12.6	72.8	8.5	0.6	
1011B		12	44027							6.9							
1011C		24	44028														

Sample Number	Sulfur ppm S lbs/ac	Nitrate Nitrogen ppm NO3-N lbs/ac	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts meq/cm	Saturation %P	Aluminum Al ppm	Saturation %Al	Chloride Cl ppm	Sodium Na ppm	Molybdenum Mo ppm
1011A	11 VL	20	7 L	13					39 H	429	0.1 G	0.44	48	18 L
1011B	0	0	8 L	14										
1011C	0	0	10 M	38										

OE	VL - VERY LOW	L - LOW	M - MEDIUM	H - HIGH	VH - VERY HIGH	* G - GOOD, M - MARGINAL, MT - MODERATE	PHYTO-TOXIC, T - PHYTO-TOXIC, SF - SEVERE PHYTO-TOXIC							
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OE VL = VERY LOW L = LOW M = MEDIUM H = HIGH VH = VERY HIGH * G = GOOD, M = MARGINAL, NT = MODERATE PHYTO-TOXIC, T = PHYTO-TOXIC, ST = SEVERE PHYTO-TOXIC

GRAPHIC SUMMARY

Very High (*High)														Very High (*High)
High (*GOOD)														High (*GOOD)
Medium														Medium
Low														Low
Very Low														Very Low
	P1 *	%P *	N	K	Mg	Ca	S	Zn	Mn	Fe	Cu	B		

SOIL FERTILITY GUIDELINES (lbs/ac)

Sample Number	Previous Crop	Intended Crop	Yield Goal	Lime Tons/Acre	N	P2O5	K2O	Mg	Ca	S	Zn	Mn	Fe	Cu	B
1011A	Wheat Red Spring	Wheat Red Spring	100 bu	0.0	187	15	20	10	0	20					

Crop yield is influenced by a number of factors in addition to soil fertility. No guarantee or warranty concerning crop performance is made by A & L.



C15097-10025

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Spring 2015 soil test shows the total available nitrogen is at 63 pounds with the top foot of soil down to only 27 pounds of available Nitrogen. There was a fall cover crop planted on the field that is to be worked in just before spring planting. This is where some of the available nitrogen should have been taken up and captured in the plant material to be released this summer.

6.3 2015 FALL SOIL TEST

A & L Canada Laboratories Inc.

Report Number: C15232-10089
Account Number: 05219

To: EMERALD BAY AG SERVICES
10 MARYS EMERALD BAY ROAD
VERNON, BC V1H 2A7

2136 Jetstream Road, London, Ontario, N5V 3P5
Telephone: (519) 457-2575 Fax: (519) 457-2664

For: DOUG REGHER

Attn: DOUG MACFARLANE
250-546-3847

Grower Code: 05219093
Farm: HOME
Field: 101 HOME

05219-N818



Home field

Report Date: 2015-09-24 Print Date: 2016-03-01

SOIL TEST REPORT

Page: 1

Sample Number	Legal Land Descpt:	Depth	Lab Number	Organic Matter	Phosphorus - P ppm Bicarb Bray-P1	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH	Buffer	CEC meq/100g	Percent Base Saturations				
1011A		6	32280	4.2	74 H	198 H	389 VH	285 M	6.8	6.9	18.1	5.5	13.1	74.1	6.5	0.7
1011B		12	32281													
1011C		24	32282													

Sample Number	Sulfur ppm S lbs/ac	Nitrate Nitrogen ppm NO3-N lbs/ac	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts ms/cm	Saturation %P	Aluminum Al ppm	Saturation %Al	K/Mg Ratio	Chloride Cl ppm	Sodium Na ppm	Molybdenum Mo ppm
1011A	29 L	52	8 L	14					40 H	633	0.1 G	0.42	54	30 M	
1011B		0	6 L	11											
1011C		0	5 L	18											

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GRAPHIC SUMMARY												
Very High (*High)												Very High (*High)
High (*GOOD)												High (*GOOD)
Medium												Medium
Low												Low
Very Low												Very Low
	P1 *	%P *	N	K	Mg	Ca	S	Zn	Mn	Fe	Cu	B

SOIL FERTILITY GUIDELINES (lbs/ac)															
Sample Number	Previous Crop	Intended Crop	Yield Goal	Lime Tons/Acre	N	P205	K2O	Mg	Ca	S	Zn	Mn	Fe	Cu	B
1011A	Wheat HR Winter	Wheat HR Winter	80 bu	0.0	125	25	20	10	0	5					

Crop yield is influenced by a number of factors in addition to soil fertility. No guarantee or warranty concerning crop performance is made by A & L.



C15232-10089

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Fall 2015 soil test shows the total available nitrogen is at 42 pounds with the top foot of soil down to only 14 pounds of available Nitrogen. This shows a 33% reduction is available so nitrogen and levels that are low. There is very little available residual nitrogen left in the field so leaching is not a concern.

A & L Canada Laboratories Inc.



Report Number:C16067-10048
Account Number:05219

2136 Jetstream Road, London, Ontario, N5V 3P5
Telephone: (519) 457-2575 Fax: (519) 457-2664

To:EMERALD BAY AG SERVICES
10 MARYS EMERALD BAY ROAD
VERNON, BC V1H 2A7

For:DOUG REGHER

Attn:DOUG MACFARLANE
250-546-3847

Grower Code:05219093

05219-N986

Farm:HOME
Field:101 HOME

Report Date:2016-03-10 Print Date:2016-03-10

SOIL TEST REPORT

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Sample Number	Legal Land Descpt:	Depth	Lab Number	Organic Matter	Phosphorus - P ppm	Bray-P1	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH	CEC	Percent Base Saturations
1011A		6	66566	4.8	67 H	206 H	506 VH	300 M	2760 M	7.1	19.4	6.7 12.9 71.0 8.9 0.5
1011B		12	66567	4.1	71 H	218 H	435 VH	245 M	2200 M	7.1	15.7	7.1 13.0 70.2 8.9 0.8
1011C		24	66568	2.1	92 H	266 H	579 VH	260 M	2060 M	7.2	14.7	10.1 14.7 69.9 4.6 0.8

Sample Number	Sulfur ppm S lbs/ac	Nitrate Nitrogen ppm NO3-N lbs/ac	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts ms/cm	Saturation %P	Aluminum Al ppm	Saturation %Al *	K/Mg Ratio	ENR	Chloride Cl ppm	Sodium Na ppm	Molybdenum Mo ppm	
1011A	11 VL	20	11 M	20	15.1 VH	36 H	107 VH	2.9 H	0.4 L	0.3 VL	41 H	638	0.1 G	0.52	61	15 L	23 L
1011B	10 VL	18	11 M	20							47 H	593	0.1 G	0.55	53		28 M
1011C	8 VL	29	7 L	25							47 H	722	0.1 G	0.69	33		27 M

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GRAPHIC SUMMARY

	Very High (*High)	High (*GOOD)	Medium	Low	Very Low	P1 *	%P *	N	K	Mg	Ca	S	Zn	Mn	Fe	Cu	B	Very High (*High)
																		High (*GOOD)
																		Medium
																		Low
																		Very Low

SOIL FERTILITY GUIDELINES (lbs/ac)

Sample Number	Previous Crop	Intended Crop	Yield Goal	Lime Tons/Acre	N	P2O5	K2O	Mg	Ca	S	Zn	Mn	Fe	Cu	B

Crop yield is influenced by a number of factors in addition to soil fertility. No guarantee or warranty concerning crop performance is made by A & L.



C16067-10048

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A & L Canada Laboratories Inc.



Report Number:C16231-10016
Account Number:05219

2136 Jetstream Road, London, Ontario, N5V 3P5
Telephone: (519) 457-2575 Fax: (519) 457-2664

To:EMERALD BAY AG SERVICES
10 MARYS EMERALD BAY ROAD
VERNON, BC V1H 2A7

For:DOUG REGHER

Attn:DOUG MACFARLANE
250-546-3847

Grower Code:05219093
Farm:HOME
Field:101 HOME

05219-N1063

Report Date:2016-08-22 Print Date:2016-08-23

SOIL TEST REPORT

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Sample Number	Legal Land Descpt:	Depth	Lab Number	Organic Matter	Phosphorus - P ppm Bicar	Bray-P1	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH	CEC Buffer	meq/100g	Percent Base Saturations % K % Mg % Ca % H % Na			
1011A		6	45065	4.3	63 H	186 H	470 VH	280 M	2800 H	7.2	18.5	6.5	12.6 75.7 4.6 0.5			
1011B		12	45066	4.2	54 H	158 H	393 VH	230 M	2440 M	7.1	16.7	6.0	11.5 72.9 8.9 0.6			
1011C		24	45067	2.7	49 G	112 H	251 VH	230 M	2340 H	7.2	15.1	4.3	12.7 77.7 4.6 0.7			
Sample Number	Sulfur ppm S lbs/ac	Nitrate Nitrogen ppm NO3-N lbs/ac	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts ms/cm	Saturation %P	Aluminum Al ppm	Saturation %Al *	K/Mg Ratio	ENR	Chloride Cl ppm	Sodium Na ppm	Molybdenum Mo ppm
1011A	15 VL 27	8 L 14	13.0 VH 38 H	100 VH 2.8 H	0.6 M 0.3 VL	42 H 571	0.0 G 0.52 55	26 M 23 L								
1011B	20 VL 36	7 L 13				33 H 613	0.1 G 0.52 54	25 L								
1011C	15 VL 54	7 L 25				9 G 671	0.1 G 0.34 39	23 M								

OE VL = VERY LOW L = LOW M = MEDIUM H = HIGH VH = VERY HIGH * G = GOOD, M = MARGINAL, MT = MODERATE PHYTO-TOXIC, T = PHYTO-TOXIC, ST = SEVERE PHYTO-TOXIC

GRAPHIC SUMMARY

Very High (*High)																Very High (*High)
High (*GOOD)																High (*GOOD)
Medium																Medium
Low																Low
Very Low																Very Low
	P1 *	%aP *	N	K	Mg	Ca	S	Zn	Mn	Fe	Cu	B				

SOIL FERTILITY GUIDELINES (lbs/ac)

Sample Number	Previous Crop	Intended Crop	Yield Goal Tons/Acre	Lime	N	P205	K2O	Mg	Ca	S	Zn	Mn	Fe	Cu	B
1011A	Triticale	Canola	60 bu	0.0	143	20	25	10	0	20	0.0	0	0	0	2.0
1011A	Triticale	Wheat HR Winter	70 bu	0.0	95	25	20	10	0	20	0.0	0	0	0	0.0
1011A	Triticale	Alfalfa Seeding	4 tons	0.0	0	0	75	10	0	20	0.0	0	0	0	2.0

Crop yield is influenced by a number of factors in addition to soil fertility. No guarantee or warranty concerning crop performance is made by A & L.

Soil test shows nice and low residual nitrogen levels after the crop. P and K are being maintained. Soil additive nutrient recommendation for a fall seeded winter Canola crop is broadcast and incorporate 3/4 ton of broiler manure per acre before planting to supply approximately 40 pounds of available nitrogen to crop establishment and then broadcast on 2 tons per acre of broiler manure in the spring. 200 pounds per acre of a 95% elemental sulfur/ 5% ulicite boron in the spring or fall is recommended for canola or alfalfa.



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C16231-10016

A & L Canada Laboratories Inc.



Report Number:C16231-10017
Account Number:05219

2136 Jetstream Road, London, Ontario, N5V 3P5
Telephone: (519) 457-2575 Fax: (519) 457-2664

To:EMERALD BAY AG SERVICES
10 MARYS EMERALD BAY ROAD
VERNON, BC V1H 2A7

For:DOUG REGHER

Attn:DOUG MACFARLANE
250-546-3847

Grower Code:05219093

05219-N1064

Farm:HOME

Field:102 FEEDLOT

Report Date:2016-08-22 Print Date:2016-08-23

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SOIL TEST REPORT

Sample Number	Legal Land Descpt:	Depth	Lab Number	Organic Matter	Phosphorus - P ppm Bicar	Bray-P1	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	pH	CEC meq/100g	Percent Base Saturations				
										Buffer		% K	% Mg	% Ca	% H	% Na
1021A		6	45068	11.1	149 H	445 H	818 VH	485 H	3300 M	6.9	23.9	8.8	16.9	69.1	4.8	0.3
1021B		12	45069	9.3	193 H	594 H	1447 VH	565 H	3350 M	7.0	29.0	12.8	16.2	57.7	12.8	0.4
1021C		24	45070	7.0	246 H	764 H	1739 VH	575 H	3740 M	7.1	30.9	14.4	15.5	60.6	8.9	0.6
Sample Number	Sulfur ppm S lbs/ac	Nitrate Nitrogen ppm NO3-N lbs/ac	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts ms/cm	Saturation %P	Aluminum Al ppm	Saturation %Al *	K/Mg Ratio	ENR	Chloride Cl ppm	Sodium Na ppm	Molybdenum Mo ppm
1021A	27 VL 49	35 H 63	33.6 VH	28 M	111 VH	3.3 VH	1.4 H	0.6 L	206 H	277	0.0 G	0.52	112	63 H	19 VL	
1021B	27 VL 49	17 M 31							215 H	354	0.0 G	0.79	106		29 L	
1021C	33 VL 119	14 M 50							264 H	371	0.0 G	0.93	83		40 L	

OE VL = VERY LOW L = LOW M = MEDIUM H = HIGH VH = VERY HIGH * G = GOOD, M = MARGINAL, MT = MODERATE PHYTO-TOXIC, T = PHYTO-TOXIC, ST = SEVERE PHYTO-TOXIC

GRAPHIC SUMMARY

Very High (*High)	High (*GOOD)	Medium	Low	Very Low	P1 *	%P *	N	K	Mg	Ca	S	Zn	Mn	Fe	Cu	B	Very High (*High)	High (*GOOD)	Medium	Low	Very Low

SOIL FERTILITY GUIDELINES (lbs/ac)

Sample Number	Previous Crop	Intended Crop	Yield Goal Tons/Acre	Lime N	P2O5	K2O	Mg	Ca	S	Zn	Mn	Fe	Cu	B
1021A	Triticale	Canola	60 bu	0.0	51	20	25	0	0	20	0.0	0	0	1.0
1021A	Triticale	Wheat HR Winter	70 bu	0.0	3	25	20	0	0	20	0.0	5	0	0.0
1021A	Triticale	Alfalfa Seeding	4 tons	0.0	0	0	75	0	0	20	0.0	0	0	1.0

Crop yield is influenced by a number of factors in addition to soil fertility. No guarantee or warranty concerning crop performance is made by A & L.

This sample is from the East end of the field where the old feedlot was located. It show VERY HIGH residual phosphorous and potassium and very high organic matter for a sandy mineral soil. Residual nitrogen levels are medium to high with very high estimated nitrogen release for the next crop year. NO MANURE should be applied to this field until the soil test show a requirement. The residual nitrogen is almost sufficient for a canola crop and when you add in the Estimated nitrogen to be released from the organic matter in 2017 there will be ample available nitrogen to finish the crop. Nitrogen leaching is a strong possibility on this field if excessive irrigation is applied.



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C16231-10017