

Report Number: C20321-10518
Account Number: 00512

A & L Canada Laboratories Inc.

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C20321-10518



To: HALIFAX SEED COMPANY
P.O. BOX 8026
5860 KANE ST.
HALIFAX, NS B3K 5L8

For: BRIGHTWOOD GOLF

902-455-5271

Reported Date: Printed Date: Nov 19, 2020

SOIL TEST REPORT

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Reported Date: Printed Date: 10/13/2020 Page:

Sample Number	Lab Number	Organic Matter	Phosphorus - P ppm		Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	Sodium Na ppm	pH	pH Buffer	CEC meq/100g	Percent Base Saturations				
			Bray	Mel-III								% K	% Mg	% Ca	% H	% Na
2 WOODS	17619	8.4	6 VL	8	36 VL	26 VL	450 VL	10 VL	4.9	5.9	15.8	0.6	1.4	14.2	83.5	0.3

Sample Number	Sulfur S ppm	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	Nitrate Nitrogen NO3-N ppm	K/Mg Ratio	ENR	Field ID	Chloride Cl ppm
2 WOODS	19 VH	1.2 L	5 VL	109 VH	1.0 M	0.4 L	0.2 VL	1 VL	1360	4.2 T	1 VL	0.43	97		13 L

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

SOIL FERTILITY GUIDELINES (lbs/ac)

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

* The method used for all reported elements is by Melich III extraction.

The results of this report relate to the sample submitted and analyzed.

* 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.

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Results Authorized By:

Ian McLachlin, Vice President

Report Number: C20321-10518
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For: BRIGHTWOOD GOLF

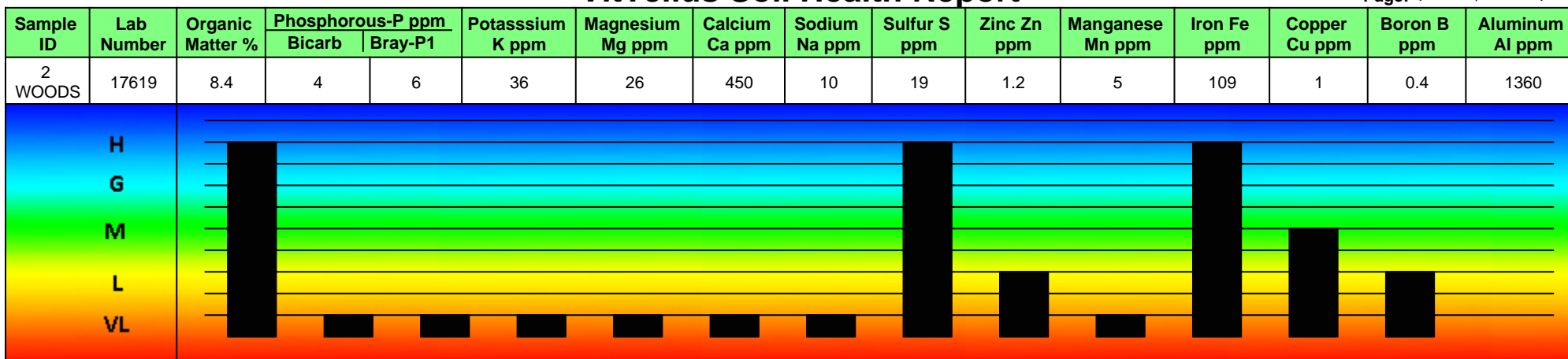
902-455-5271

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VitTellus Soil Health Report

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Parameter	Result	Optimum Level
CEC, meq/100g	15.8	
K/Mg Ratio	0.43	0.25-0.35
GFI	32	VL
%K	0.6	3-5
%Mg	1.4	10-20
%Ca	14.2	65-72
%H	83.5	5-15
%Na	0.3	<1

Parameter	Result	Rating
pH	4.9	VL
Buffer pH	5.9	
EC, ms/cm	0.18	VL
Saturation %P	1	VL
Saturation %Al	4.2	T
Nitrate-N, ppm	1	VL
Chloride, ppm	13	L
PMN, ppm	40	

Parameter	Result	Rating
Solvita CO2-C, ppm	72	
Reactive C, ppm	939	
Soil Health Index	18	

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A & L Biologicals Inc.

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5860 KANE ST.
HALIFAX, NS B3K 5L8

For: BRIGHTWOOD GOLF

902-455-5271

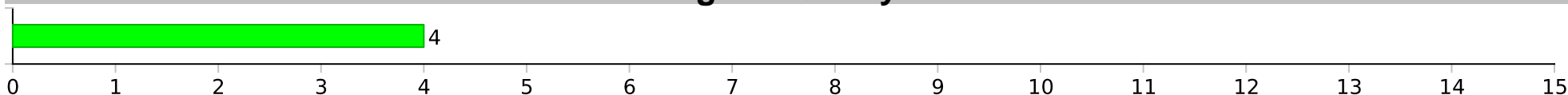
Reported Date:
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VitTellus Soil Health Report Biological Activity & Mineralizable Nitrification

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LabNo: 17619 Organic Matter: 8.4 Sample ID: 2 WOODS

Biological Quality Result



0-1: Very Low Soil Microbial Activity- Associated with dry sandy soils and little to no organic matter.

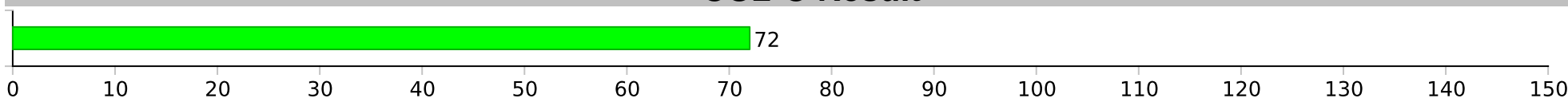
1-2.5: Low Soil Microbial Activity- Soil is marginal in terms of biological activity and organic matter.

2.5-3.5: Medium Soil Microbial Activity- Soil is in moderately balanced condition.

3.5-4: Ideal Soil Microbial Activity- Soil is well supplied with organic matter and has an active population of microorganisms.

>4: Unusually High Soil Microbial Activity- Soil has very high level of microbial activity. May have excessive organic matter.

CO₂-C Result



0-5: Little biological activity- Soil is depleted of organic matter Biomass < 100 ppm.

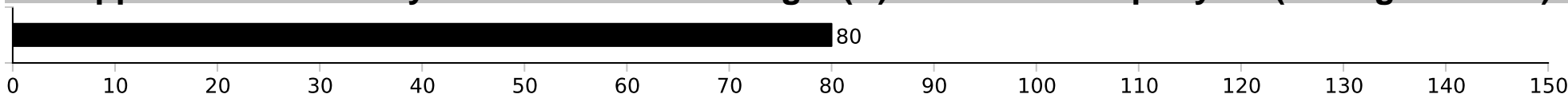
6-30: Moderate to Low- Low in organic matter and microbial activity.

31-60: Moderate Level- Soil is approaching ideal levels, applications of active organic matter still recommended.

61-100: Moderate to high- ideal balance of biological activity and adequate organic matter level.

>100: High N potential soil- Soil is well supplied with organic matter.

Approximate Quantity of Mineralizable Nitrogen(N) release lbs/ac per year (average climate)



Methods: Microbial Activity- Soil Biomass Organic Matter- Combustion N Release- Calculation based on CO₂-C Result

NO₃N (ppm): 1

N₄HN (ppm): 0

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REPORT OF ANALYSIS

TO: HALIFAX SEED COMPANY
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RE: BRIGHTWOOD GOLF

DATE RECEIVED: 2020-11-16
DATE REPORTED: 2020-11-19
PAGE: 1 / 1

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
17619	2 WOODS	Biological Quality Rating	4		
17619	2 WOODS	Mineralizable Nitrogen	40	ppm	
17619	2 WOODS	CO2 Respiration	72	ppm	
17619	2 WOODS	Active Carbon	939	ppm	KMnO4 Method



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Results Authorized By:

A handwritten signature in black ink, likely of the analyst or supervisor.

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