



Soil Test Report


Department of Agriculture
 Laboratory Services
 PO Box 890
 Harlow Institute
 Truro, NS B2N 5G6

<http://www.gov.ns.ca/agri/qe/labserv/>
 Tel: 902-893-6565
 Fax: 902-893-4193

JOHNSTON VINEYARDS
 C/O DON JOHNSTON
 770 SECOND PENINSULA RD, RR #3
 LUNENBURG, NS
 B0J 2C0

Client ID: C15915
 Order ID: 1709762
 Samples Reported: 19-Oct-17
 Samples Received: 17-Oct-17
 # of Samples Received: 15

Lab #	1709762-001		1709762-002		1709762-003		1709762-004		
Sample ID	B1- 1A		B1- 1B		B1- 2		B1- 3		
Crop to be Grown	Unknown		Unknown		Unknown		Unknown		
Parameter	Analysis	Rating	Analysis	Rating	Analysis	Rating	Analysis	Rating	
pH (pH Units)	6.75		7.01		6.54		6.12		
Buffer pH (pH Units)	7.78		7.72		7.71		7.61		
Organic Matter (%)	3.3		3.9		3.7		3.6		
P2O5 (kg/ha)	191		163		237		236		
K2O (kg/ha)	229		263		248		202		
Calcium (kg/ha)	3041		4071		2976		2403		
Magnesium (kg/ha)	633		783		589		578		
Sodium (kg/ha)	30		32		23		26		
Sulfur (kg/ha)	28		32		38		42		
Aluminum (ppm)	806		874		821		911		
Boron (ppm)	0.64		0.82		0.63		0.75		
Copper (ppm)	5.26		3.99		9.61		11.05		
Iron (ppm)	232		203		216		236		
Manganese (ppm)	41		81		64		57		
Zinc (ppm)	1.36		1.82		1.43		1.56		
CEC (meq/100 g)	12.3		16.0		12.5		11.8		
Base sat. K (%)	2.0		1.7		2.1		1.8		
Base sat. Ca (%)	61.8		63.5		59.4		50.9		
Base sat. Mg (%)	21.4		20.4		19.6		20.4		
Base sat. Na (%)	0.5		0.4		0.4		0.5		
Base sat. H (%)	14.3		14.0		18.5		26.4		
LR CaCO3 (t/ha to pH 6.5)							2		
Required Nutrient (kg/ha)	N	P2O5	K2O	N	P2O5	K2O	N	P2O5	K2O

Copies To: LISE.LEBLANC@EASTLINK.CA FAX:256-3026	Analysis Approved By:  Lori Scott, TLOS
---	---

Confidentiality Notice-This report is for the individual or Organization to whom it is addressed and contains confidential information. If received in error, please contact us immediately



Soil Test Report


Department of Agriculture
 Laboratory Services
 PO Box 890
 Harlow Institute
 Truro, NS B2N 5G6

<http://www.gov.ns.ca/agri/qe/labserv/>
 Tel: 902-893-6565
 Fax: 902-893-4193

JOHNSTON VINEYARDS
 C/O DON JOHNSTON
 770 SECOND PENINSULA RD, RR #3
 LUNENBURG, NS
 B0J 2C0

Client ID: C15915
 Order ID: 1709762
 Samples Reported: 19-Oct-17
 Samples Received: 17-Oct-17
 # of Samples Received: 15

Lab #	1709762-005		1709762-006		1709762-007		1709762-008		
Sample ID	B1- 4		B1- 5		B1- 6		B1- 7		
Crop to be Grown	Unknown		Unknown		Unknown		Unknown		
Parameter	Analysis	Rating	Analysis	Rating	Analysis	Rating	Analysis	Rating	
pH (pH Units)	6.42		6.35		6.01		6.38		
Buffer pH (pH Units)	7.71		7.66		7.63		7.63		
Organic Matter (%)	3.3		3.5		3.8		3.9		
P2O5 (kg/ha)	249		212		227		214		
K2O (kg/ha)	254		219		236		265		
Calcium (kg/ha)	2841		2660		2771		3138		
Magnesium (kg/ha)	598		640		619		655		
Sodium (kg/ha)	23		25		25		29		
Sulfur (kg/ha)	25		31		41		31		
Aluminum (ppm)	877		827		978		919		
Boron (ppm)	0.58		0.65		0.57		0.66		
Copper (ppm)	20.46		16.97		17.00		11.15		
Iron (ppm)	232		216		234		224		
Manganese (ppm)	64		62		59		68		
Zinc (ppm)	2.95		1.95		2.35		2.35		
CEC (meq/100 g)	12.2		12.3		12.8		13.9		
Base sat. K (%)	2.2		1.9		2.0		2.0		
Base sat. Ca (%)	58.0		54.0		54.3		56.5		
Base sat. Mg (%)	20.4		21.6		20.2		19.7		
Base sat. Na (%)	0.4		0.4		0.4		0.5		
Base sat. H (%)	19.0		22.1		23.2		21.3		
LR CaCO3 (t/ha to pH 6.5)	1		1		3		1		
Required Nutrient (kg/ha)	N	P2O5	K2O	N	P2O5	K2O	N	P2O5	K2O

Copies To: LISE.LEBLANC@EASTLINK.CA FAX:256-3026	Analysis Approved By:  Lori Scott, TLOS
---	---

Confidentiality Notice-This report is for the individual or Organization to whom it is addressed and contains confidential information. If received in error, please contact us immediately



Soil Test Report

Department of Agriculture
 Laboratory Services
 PO Box 890
 Harlow Institute
 Truro, NS B2N 5G6

<http://www.gov.ns.ca/agri/qe/labserv/>
 Tel: 902-893-6565
 Fax: 902-893-4193

JOHNSTON VINEYARDS
 C/O DON JOHNSTON
 770 SECOND PENINSULA RD, RR #3
 LUNENBURG, NS
 B0J 2C0

Client ID: C15915
 Order ID: 1709762
 Samples Reported: 19-Oct-17
 Samples Received: 17-Oct-17
 # of Samples Received: 15

Lab #	1709762-009		1709762-010		1709762-011		1709762-012		
Sample ID	B2 - 1		B2- 2		B2- 3		B2- 4		
Crop to be Grown	Unknown		Unknown		Unknown		Unknown		
Parameter	Analysis	Rating	Analysis	Rating	Analysis	Rating	Analysis	Rating	
pH (pH Units)	6.29		5.63		5.73		6.14		
Buffer pH (pH Units)	7.64		7.54		7.59		7.58		
Organic Matter (%)	4.1		3.7		3.4		4.1		
P2O5 (kg/ha)	288		173		183		205		
K2O (kg/ha)	403		263		372		305		
Calcium (kg/ha)	3185		2986		2636		2891		
Magnesium (kg/ha)	775		689		754		764		
Sodium (kg/ha)	35		34		43		40		
Sulfur (kg/ha)	48		56		42		35		
Aluminum (ppm)	883		962		1105		1009		
Boron (ppm)	0.63		0.54		0.57		0.56		
Copper (ppm)	4.66		2.78		2.42		2.65		
Iron (ppm)	232		249		185		217		
Manganese (ppm)	68		51		50		83		
Zinc (ppm)	3.14		1.79		2.03		2.12		
CEC (meq/100 g)	14.6		14.4		13.5		14.2		
Base sat. K (%)	2.9		1.9		2.9		2.3		
Base sat. Ca (%)	54.6		52.0		48.8		51.0		
Base sat. Mg (%)	22.2		20.0		23.3		22.5		
Base sat. Na (%)	0.5		0.5		0.7		0.6		
Base sat. H (%)	19.8		25.6		24.3		23.7		
LR CaCO3 (t/ha to pH 6.5)	1		5		4		2		
Required Nutrient (kg/ha)	N	P2O5	K2O	N	P2O5	K2O	N	P2O5	K2O

Copies To: LISE.LEBLANC@EASTLINK.CA FAX:256-3026	Analysis Approved By:  Lori Scott, TLOS
---	---

Confidentiality Notice-This report is for the individual or Organization to whom it is addressed and contains confidential information. If received in error, please contact us immediately



Soil Test Report


Department of Agriculture
 Laboratory Services
 PO Box 890
 Harlow Institute
 Truro, NS B2N 5G6

<http://www.gov.ns.ca/agri/qe/labserv/>
 Tel: 902-893-6565
 Fax: 902-893-4193

JOHNSTON VINEYARDS
 C/O DON JOHNSTON
 770 SECOND PENINSULA RD, RR #3
 LUNENBURG, NS
 B0J 2C0

Client ID: C15915
 Order ID: 1709762
 Samples Reported: 19-Oct-17
 Samples Received: 17-Oct-17
 # of Samples Received: 15

Lab #	1709762-013		1709762-014		1709762-015				
Sample ID	B3- 2		B3 - 3		B3- 4				
Crop to be Grown	Unknown		Unknown		Unknown				
Parameter	Analysis	Rating	Analysis	Rating	Analysis	Rating	Analysis	Rating	
pH (pH Units)	6.59		6.56		6.41				
Buffer pH (pH Units)	7.77		7.71		7.70				
Organic Matter (%)	4.5		4.4		4.0				
P2O5 (kg/ha)	347		308		209				
K2O (kg/ha)	289		292		272				
Calcium (kg/ha)	3982		3645		3408				
Magnesium (kg/ha)	1095		1029		1012				
Sodium (kg/ha)	37		35		31				
Sulfur (kg/ha)	40		32		27				
Aluminum (ppm)	717		691		758				
Boron (ppm)	1.22		0.90		0.64				
Copper (ppm)	2.87		2.51		2.14				
Iron (ppm)	201		179		202				
Manganese (ppm)	64		59		65				
Zinc (ppm)	4.14		3.51		2.83				
CEC (meq/100 g)	16.7		16.1		15.5				
Base sat. K (%)	1.8		1.9		1.9				
Base sat. Ca (%)	59.5		56.6		55.0				
Base sat. Mg (%)	27.2		26.6		27.2				
Base sat. Na (%)	0.5		0.5		0.4				
Base sat. H (%)	11.0		14.4		15.5				
LR CaCO3 (t/ha to pH 6.5)					1				
Required Nutrient (kg/ha)	N	P2O5	K2O	N	P2O5	K2O	N	P2O5	K2O

Copies To: LISE.LEBLANC@EASTLINK.CA FAX:256-3026	Analysis Approved By:  Lori Scott, TLOS
---	---

Confidentiality Notice-This report is for the individual or Organization to whom it is addressed and contains confidential information. If received in error, please contact us immediately

Additional Information

This report shall not be reproduced, except in full, without written approval of Laboratory Services

Bold indicates analysis accredited to ISO/IES 17025:2005 standard

[S] Sample sent to an accredited lab for analysis

LA indicates Lab Accident and the analysis was not able to be completed

LR Lime Requirement

Result(s) relate only to sample(s) tested

Conversions:

1 kg/ha = 0.89 lb/ac

1 tonne/ha = 0.45 ton/ac = 10 kg/100m²

1 kg/ha/100 = 1 kg/100m²

to convert kg/ha to ppm divide by 2

Ratings:

L = Low M = Medium H = High E = Excessive

Method References for Accredited Methods

Determination of Mehlich III Extractable Major and Trace Metal Ions in Soil by ICP-OES (Modified Mehlich III, Commun. Soil. Sci. Plant Anal. 15(12): 1409-1416)

Determination fo Soils Buffer pH by Adams-Evans Lime Buffer (Modified Soil and Plant Analysis Council Reference Methods for soils analysis)

The following Soil Related Factsheets are available on our website (<http://novascotia.ca/agri/programs-and-services/lab-services/analytical-lab/>):

- How to take Field Soil Samples
- Understanding the Soils Test Report