

**BIO-MASS RENEWABLE TECH INC  
JEFF BURESH  
PO BOX 242  
LADORA IA 52251**

**REPORT OF ANALYSIS**

For: (20151) BIO-MASS RENEWABLE TECH INC  
DECarbon

Analysis	Level Found		Reporting		Analyst- Date	Verified- Date
	As Received	Units	Limit	Method		
Sample ID: <b>DECarbon</b>	Lab Number: <b>8669969</b>	Date Sampled: <b>2019-08-28 1500</b>				
Nitrogen (total)	1.18	%	0.01	MWL WC PROC 55	hns0-2019/09/05	asl4-2019/09/05
Phosphate (P2O5)	0.55	%	0.10	MWL ME PROC 26	Auto-2019/09/05	asl4-2019/09/05
Potash (K2O)	n.d.	%	0.05	MWL ME PROC 26	Auto-2019/09/05	asl4-2019/09/05
Boron (total)	n.d.	ppm	100	MWL ME PROC 26	trh1-2019/09/04	asl4-2019/09/05
Sulfur (total)	0.11	%	0.05	MWL ME PROC 26	trh1-2019/09/04	asl4-2019/09/05
Magnesium (total)	0.08	%	0.01	MWL ME PROC 26	trh1-2019/09/04	asl4-2019/09/05
Sodium (total)	0.11	%	0.01	MWL ME PROC 26	trh1-2019/09/04	asl4-2019/09/05
Iron (total)	158	ppm	50.0	MWL ME PROC 26	trh1-2019/09/04	asl4-2019/09/05
Calcium (total)	0.44	%	0.01	MWL ME PROC 26	trh1-2019/09/04	asl4-2019/09/05
Manganese (total)	n.d.	ppm	20.0	MWL ME PROC 26	trh1-2019/09/04	asl4-2019/09/05
Copper (total)	n.d.	ppm	20.0	MWL ME PROC 26	trh1-2019/09/04	asl4-2019/09/05
Mercury (total)	n.d.	mg/kg	0.05	EPA 7471	ccm2-2019/09/05	trh1-2019/09/09
Zinc (total)	7.3	mg/kg	2.0	EPA 6010	ery3-2019/09/05	trh1-2019/09/09
Selenium (total)	n.d.	mg/kg	5.0	EPA 6010	ery3-2019/09/05	trh1-2019/09/09
Lead (total)	n.d.	mg/kg	5.0	EPA 6010	ery3-2019/09/05	trh1-2019/09/09
Nickel (total)	1.7	mg/kg	1.0	EPA 6010	ery3-2019/09/05	trh1-2019/09/09
Molybdenum (total)	n.d.	mg/kg	1.0	EPA 6010	ery3-2019/09/05	trh1-2019/09/09
Cobalt (total)	n.d.	mg/kg	1.00	EPA 6010	ery3-2019/09/05	trh1-2019/09/09
Cadmium (total)	n.d.	mg/kg	0.50	EPA 6010	ery3-2019/09/05	trh1-2019/09/09

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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DECarbon

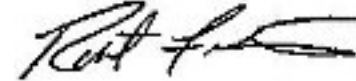
Analysis	Level Found	Units	Reporting		Analyst- Date	Verified- Date
	As Received		Limit	Method		
<b>Sample ID: DECarbon</b>	Lab Number: <b>8669969</b> (con't)					
Arsenic (total)	n.d.	mg/kg	5.0	EPA 6010	ery3-2019/09/05	trh1-2019/09/09

Sample(s) was prepared for EPA 6010 analysis by EPA 3050b.

This report was reissued on 2019-09-10 12:55:07 by raf4 for the following reason:  
split report.

All results are reported on an AS RECEIVED basis., n.d. = not detected , ppm = parts per million, ppm = mg/kg

For questions please contact:



Rob Ferris  
Account Manager  
rferris@midwestlabs.com (402)829-9871

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## **REPORT OF ANALYSIS**

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DECarbon

### **Detailed Method Description(s)**

#### **ME 067**

Samples are analyzed for mercury using MWL ME 067 which is based upon EPA 7471, cold vapor atomic absorption (CVAA).

Samples are prepared via MWL ME 037 that uses a series of digestion steps involving hot mineral acids and oxidizers so as to destroy organic matter and solubilize mercury. The mercury is reduced by use of stannous chloride to elemental mercury that is then aerated to the light path of a mercury light of an atomic absorption spectrometer (AAS). The absorption of the mercury light at 253.7 nm is then correlated to the level of mercury present in the original sample.

#### **Elemental combustion Nitrogen, Carbon, Hydrogen**

Analysis follows MWL WC 055 which is based on AOAC 993.13. Samples are ground to a fine, homogenous consistency and a small amount weighed and introduced into the instrument. The sample is burned in the presence of oxygen to release gases such as carbon dioxide, nitrogen, and hydrogen and the levels of a specific gas determined and reported.

#### **ME 042**

Analysis follows MWL ME 042 which is based on EPA 6010b, Inductively Coupled Plasma (ICP). A light emission technique where prepared samples are injected into a high energy plasma that forces the elements in the injected sample to emit light energies which are proportional to the level of minerals and metals present. The light is then detected and correlated to the levels of minerals and metals in the original sample.

#### **ICP Analysis Fertilizers AOAC 985.01 (mod)**

Analysis follows MWL ME 026 which is based on AOAC 985.01. Samples have been prepared using MWL WC 056. Total minerals in fertilizers have been prepared by AOAC 957.02 using mineral acids and heat. Water soluble manganese is prepared by AOAC 972.03 and the other water soluble by AOAC 977.01. Sample analysis involves moving the sample extract into the ICP where it is nebulized and introduced into the high temperature plasma which energizes the electrons of the dissolved minerals/metals. As the energized electrons of the minerals/metals return to ground state, energy is released as light. The emitted wavelength(s) and light intensities are used to identify and quantitate the minerals/metals in the sample

#### **AOAC 957.02 (P2O5 preparation)**

Samples are treated with hydrochloric acid and nitric acid on a hot plate to destroy organic material and dissolve phosphate.

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REPORT NUMBER

**19-253-4115 v2**

REPORT DATE  
**Sep 10, 2019**

SEND TO  
**20151**

RECEIVED DATE  
**Sep 03, 2019**



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ISSUE DATE  
**Sep 10, 2019**

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**Fertilizer Prep AOAC 957.02**

Samples are prepared using a combination of nitric acid and heat. The heating takes place in a block digester

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