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**Report No:** USR:W215-0866-01  
**Issue No:** 1

## Analytical Test Report

**Client:** FIBER BY-PRODUCTS CORP.  
 70721 US Hwy 131  
 White Pigeon, MI 49099  
**Attention:** Cory M. Schrock  
**PO No:**

Signed: *Stephen Sundeen*  
 Stephen Sundeen  
 Chemistry Laboratory Manager  
 Date of Issue: 8/12/2015  
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**Sample Details**  
**Sample Log No:** W215-0866-01      **Sample Date:**  
**Sample Designation:** 40 Lb Pellet Bag      **Sample Time:**  
**Sample Recognized As:** Pellets      **Arrival Date:** 8/6/2015

### Test Results

	METHOD	UNITS	MOISTURE FREE	AS RECEIVED
Moisture Total	ASTM E871	wt. %		2.75
Ash	ASTM D1102	wt. %	0.43	0.42
Volatile Matter	ASTM D3175	wt. %		
Fixed Carbon by Difference	ASTM D3172	wt. %		
Sulfur	ASTM D4239	wt. %	0.009	0.009
SO <sub>2</sub>	Calculated	lb/mmbtu		0.020
Net Cal. Value at Const. Pressure	ISO 1928	GJ/tonne		
Net Cal. Value at Const. Pressure	ISO 1928	J/g		
Gross Cal. Value at Const. Vol.	ASTM E711	J/g	19774	19230
Gross Cal. Value at Const. Vol.	ASTM E711	Btu/lb	8502	8268
Carbon	ASTM D5373	wt. %		
Hydrogen*	ASTM D5373	wt. %		
Nitrogen	ASTM D5373	wt. %		
Oxygen*	ASTM D3176	wt. %		
*Note: As received values do not include hydrogen and oxygen in the total moisture.				
Chlorine	ASTM D6721	mg/kg	56	54
Fluorine	ASTM D3761	mg/kg		
Mercury	ASTM D6722	mg/kg		
Bulk Density	ASTM E873	lbs/ft <sup>3</sup>		46.23
Fines (Less than 1/8")	TPT CH-P-06	wt. %		0.16
Durability Index	Kansas State	PDI		98.8
Sample Above 1.50"	TPT CH-P-06	wt. %		0.0
Maximum Length (Single Pellet)	TPT CH-P-06	inch		1.413
Diameter, Range	TPT CH-P-05	inch	0.250 to	0.254
Diameter, Average	TPT CH-P-05	inch		0.251
Stated Bag Weight	TPT CH-P-01	lbs		40.0
Actual Bag Weight	TPT CH-P-01	lbs		41.0

**Comments**