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## Report of Analysis

McHale & Associates Inc.  
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<b>BEL ID Number(s):</b>	BEL123913	<b>Sample Weight (kg):</b>	5.46
<b>Product/Commodity:</b>	Woody Biomass	<b>Sample Received:</b>	11/24/2013
<b>Sample Designation:</b>	Test 2- Start 14:00	<b>Report Date:</b>	11/27/2013
<b>Packaging:</b>	Plastic Bag	<b>Report ID:</b>	BEL123913-Preliminary
<b>Date Sampled:</b>	11/21/2013	<b>Purchase Order #</b>	N/A

### Compositional Analysis: Proximate/Ulimate Analysis

Parameter	As-Received	Oven Dry	Analytical Method
Total Moisture (%)	37.27		CEN/EN 14774-1
Ash (%)	2.85	4.55	CEN/EN 14775
Volatiles (%)			CEN/EN 15148
Fixed Carbon (%)			By Difference
Gross Calorific Value (GJ/Tonne)	12.13	19.33	CEN/EN 14918
Net Calorific Value (cV)(GJ/Tonne)	10.54	18.17	CEN/EN 14918
Net Calorific Value (cP)(GJ/Tonne)	10.45	18.10	CEN/EN 14918
Carbon (%)	30.67	48.89	CEN/EN 15104
Hydrogen (%)	3.53	5.63	CEN/EN 15104
Nitrogen (%)	0.23	0.36	CEN/EN 15104
Sulfur (%)	0.01	0.01	CEN/EN 15289
Oxygen (%)	25.44	40.55	By Difference

Prepared By: \_\_\_\_\_

*Chris Wiberg*

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