1641 Sigman Road PO Box 919 Conyers, GA 30012 1-770-922-8000 ext 164 www.biomassenergylab.com

Report of Analysis

BioResources Management, Inc. 3520 NW 43rd St. Gainesville, FL 32606



Company Contact: Brian Condon

BEL ID Number(s):	BEL123147	Sample Weight (kg):	0.91
Product/Commodity:	Biomass Fuel	Sample Received:	5/21/2013
Sample Designation:	ID 130517B	Report Date:	6/7/2013
Packaging:	Plastic Bag	Report ID:	BEL123147-2
Date Sampled:	4/18/2013	Purchase Order #	N/A

Compositional Analysis: Proximate/Ultimate Analysis

Parameter	As-Received	Oven Dry	Analytical Method
Total Moisture (%)	33.64		CEN/EN 14774-1
Ash (%)	3.37	5.08	CEN/EN 14775
Volatiles (%)	51.97	78.32	CEN/EN 15148
Fixed Carbon (%)	11.00	16.58	By Difference
Gross Calorific Value (GJ/Tonne)	12.90	19.45	CEN/EN 14918
Net Calorific Value (cV)(GJ/Tonne)	11.32	18.22	CEN/EN 14918
Net Calorific Value (cP)(GJ/Tonne)	11.22	18.15	CEN/EN 14918
Carbon (%)	32.62	49.16	CEN/EN 15104
Hydrogen (%)	3.95	5.95	CEN/EN 15104
Nitrogen (%)	0.28	0.43	CEN/EN 15104
Sulfur (%)	0.01	0.02	CEN/EN 15289
Oxygen (%)	26.12	39.37	By Difference
Chlorine (ppm)	139	210	CEN/EN 15289
Fluroine (ppm)	<5.0	<5.0	CEN/EN 15289
Mercury (ppm)	<0.020	<0.020	CEN/EN 15297

Chis Wiberg

Prepared By:

Results shown on this certificate represent only the quantity of sample which was submitted for analysis. BEL does not assume responsibility for selection, representation, and/or sample identifications. Analyses are carried out within the scope of Principal's instructions and with due care and skill in conformity with BEL Terms and Conditions of Business. Claims in respect of services provided will be considered only if based upon failure to take due care proven by the Principal. Liability shall in no circumstances whatsoever exceed a total aggregate sum eqaual to 10 (ten) times the amount of the fee paid for the service. 1641 Sigman Road PO Box 919 Conyers, GA 30012 1-770-922-8000 ext 164 www.biomassenergylab.com

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Analysis of Ash: Mineral Ash Analysis

Mineral Ash Analysis	Dry Basis	Units	CEN/EN 15290
Silicon Dioxide in Ash (SiO ₂)	43.78	Wt. %	Wt. % in ash
Aluminum Oxide in Ash (Al ₂ O ₃)	1.43	Wt. %	
Titanium Dioxide in Ash (TiO ₂)	0.15	Wt. %	
Iron Oxide in Ash (Fe ₂ O ₃)	0.69	Wt. %	
Calcium Oxide in Ash (CaO)	25.94	Wt. %	
Magnesium Oxide in Ash (MgO)	2.65	Wt. %	
Potassium Oxide in Ash (K ₂ O)	4.80	Wt. %	
Sodium Oxide in Ash (Na ₂ O)	0.71	Wt. %	
Sulfur Trioxide in Ash (SO ₃)	2.05	Wt. %	
Phosphorus pentoxide in Ash (P ₂ O ₅)	3.64	Wt. %	
Strontium Oxide in Ash (SrO)	0.20	Wt. %	
Barium Oxide (BaO)	0.44	Wt. %	
Manganese Oxide in Ash (MnO)	0.16	Wt. %	

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