



Alfred H Knight

PHIL WHITE
 BWSC NORTH Lincs LTD
 BRIGG RENEWABLE ENERGY PLANT
 SCAWBY BROOK
 BRIGG
 NORTH LINCOLNSHIRE
 DN20 9LT

Date of Report: 28-Sep-2017

AHK Ref: B/348946
 Client Ref: MISCANTHUS PELLETS

Material Described As: WOOD PELLETS

Client Ref.	Test	Unit	As Received	Dry Basis	Dry Ash-Free
<u>MISCANTHUS</u>					
	Total Moisture	%	9.7		
	Ash Content	%	6.4	7.1	
	Total Sulphur	%	0.03	0.03	0.03
	Chlorine	%	0.21	0.23	0.25
	Carbon	%	41.2	45.6	49.1
	Hydrogen	%	5.06	5.60	6.03
	Nitrogen	%	1.02	1.13	1.22
	Oxygen By Difference	%	36.4	40.3	43.4
	Gross Calorific Value	MJ/Kg	16.839	18.648	20.073
	Net Calorific Value	MJ/Kg	15.500	17.428	
	Biomass Content by CV	%		99.0	
	Bulk Density	T/m3	0.706		
	Dry Bulk Density	T/m3	0.662		

Ken Hepburn
 Biomass Manager

For and on behalf of KNIGHT ENERGY SERVICES LIMITED



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Client Ref.	Test	Unit	Result
<u>MISCANTHUS</u>	Total Petroleum Hydrocarbons	mg/Kg	< 10
ASH FUSION TEMPERATURES OXIDISING			
	Initial Deformation Oxidising	°C	1065
	Softening Temperature Oxidising	°C	1155
	Hemispherical Temperature Oxidising	°C	1290
	Flow Temperature Oxidising	°C	1340

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 Biomass Manager

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