Appendix 9: Total feedstock variance explained by consideration of the structured factors using REML, expressed as % of total variance

	Miscanthus	Willow SRC		Poplar SRF			Conifer SRF		
Variable (analysis basis of variable)		Stems	Leaves	Trunks	Tops	Leaves	Trunks	Tops	Bark
Structured factors included (and combinations thereof)	Climate zone Soil type Storage	Soil type Storage	Soil type	Climate zone Soil type Harvest Time Storage	Climate zone Soil type Harvest Time Storage	Climate zone Soil type	Climate zone Soil type Harvest Time Storage	Climate zone Soil type Harvest Time Storage	Climate zone Soil type Harvest Time
Moisture (ar)	50.4	30.2	0.9	68.7	78.5	22.4	59.5	60.8	22.0
Net calorific value (ar)	50.2	30.4	0.0	67.9	78.7	28.2	59.7	62.0	25.9
Ash content (d)	22.6	4.9	1.6	24.0	67.5	29.5	43.8	48.4	31.1
Volatile matter (DAF)	47.1	8.6	16.0	51.3	48.2	8.7	25.6	34.2	12.0
Gross calorific value (DAF)	40.8	19.1	26.9	37.7	39.6	11.2	21.8	41.9	37.6
Carbon (DAF)	43.6	61.0	0.2	38.8	56.5	4.4	50.3	32.4	19.2
Hydrogen (DAF)	46.2	51.4	67.4	28.6	55.0	5.6	40.8	58.5	25.1
Nitrogen (DAF)	40.6	7.8	38.9	63.2	62.5	22.7	48.3	40.4	35.8
Sulphur (DAF)	13.1	67.4	1.8	15.5	77.7	8.3	25.4	45.2	
Chlorine (DAF)	32.3	14.7	5.0	30.9	63.6	26.6	51.5	51.5	29.5
Barium (d)	13.5	11.9	7.5	29.9	20.4	31.1	41.9	40.1	19.1
Chromium (d)	7.9	58.2	2.9	20.5	15.7	27.8	27.7	20.8	19.9
Cobalt (d)	28.1	60.9	0.0	15.7	46.5	8.5	19.9	31.2	40.6
Copper (d)	24.4	50.9	23.1	27.6	30.1	9.6	34.2	60.0	40.1
Molybdenum (d)	36.1	54.6	3.6	22.9	59.1	28.7	41.4	46.8	40.6
Nickel (d)	35.2	20.5	2.7	22.1	33.6	3.1	25.9	49.5	25.6
Vanadium (d)	63.0	23.5	16.6	42.6	64.1	28.7	29.2	34.9	30.1
Zinc (d)	21.0	53.2	4.0	16.0	36.6	3.8	42.8	31.6	20.1
Antimony (d)			0.1			32.4			

Arsenic (d)			9.6			32.4			
Mercury (d)			3.1			15.9			
Bromine (d)			20.8			12.0			
Cadmium (d)	13.8		36.1	24.5	13.4	2.7	17.0	34.8	8.4
Lead (d)	17.5	20.1	60.9	29.1	7.7	21.1	21.1	38.4	14.0
Al_2O_3 (na)	22.4	31.5	29.8	32.7	56.3	29.2	34.4	43.4	33.6
BaO (na)	10.0	9.6	4.4	17.0	24.1	35.8	25.0	54.7	33.6
$CaCO_3$ (na)	39.7	7.2	18.0	27.2	53.1	6.3	25.7	46.7	38.3
Fe_2O_3 (na)	47.4	41.9	8.9	27.9	37.3	17.3	41.3	34.7	28.3
K_2O (na)	34.1	12.6	8.3	51.6	34.3	15.4	30.7	54.4	26.2
MgO (na)	47.6	13.9	8.8	15.6	14.3	13.4	35.1	20.1	16.1
Mn_3O_4 (na)	33.8	16.6	19.8	82.0	26.0	15.8	20.5	13.6	22.8
Na_2O (na)	32.1	9.3	60.5	19.4	64.3	49.8	25.1	34.8	42.7
P_2O_5 (na)	25.5	33.2	5.8	13.3	29.3	2.0	39.4	29.1	47.3
SiO_2 (na)	23.8	17.6	19.0	29.5	64.4	10.0	29.0	45.7	31.3
TiO_2 (na)	7.7	9.9	19.3	22.1	19.1	41.2	13.9	52.2	23.7
Aluminium (d)	14.4	41.7	36.3	32.8	66.2	10.9	23.8	45.4	37.4
Calcium (d)	34.9	18.1	2.5	14.7	50.6	22.0	49.2	39.9	27.7
Iron (d)	24.0	59.1	10.2	14.7	27.8	8.9	26.9	27.3	32.4
Potassium (d)	21.6	17.0	19.1	45.5	60.6	14.4	47.3	52.1	20.8
Magnesium (d)	33.9	18.5	8.4	29.1	35.2	14.9	38.0	33.8	28.3
Manganese (d)	25.3	19.3	20.8	75.4	48.9	9.4	24.3	22.8	21.3
Sodium (d)	16.7	27.1	44.8	22.3	38.1	43.5	28.7	35.8	50.9
Phosphorous (d)	20.1	14.1	4.2	23.0	41.4	19.5	38.5	22.5	45.2
Silicon (d)	18.1	23.3	15.8	29.5	76.4	12.3	32.0	47.4	36.3
Titanium (d)	8.3	17.8	16.4	30.7	30.9	45.7	22.8	47.6	26.4
Alkali index	21.6	16.4	17.2	45.3	60.1	14.8	48.3	51.7	21.0