Species	Excel row number in submitted D4	Sample Reference	Parameters excluded	Value	Reasoning
Miscanthus	16	059/Misc/1	V in fuel	0.64 mg/kg	Significantly high compared with other samples, both from the same location and within wider dataset
Miscanthus	17	060/Misc/1	Na2O in ash	1.91 %wt in normalised ash	Significantly high compared with other samples, both from the same location and within wider dataset
Miscanthus	19	049/Misc/2	Mo in fuel	19.11 mg/kg	Significantly high compared with other samples, both from
			Ni in fuel	137.42 mg/kg	the same location and within wider dataset
Miscanthus	26	057/Misc/2	Na2O in ash/Na in fuel	2.02 %wt in normalised ash	Levels in ash high compared with other samples, both from
			P2O5 in ash/P in fuel	11.81 %wt in normalised ash	the same location and within wider dataset; dervied levels
Miscanthus	30	050/Misc/3	P2O5 in ash/P in fuel	13.13 %wt in normalised ash	Levels in ash high compared with other samples, both from the same location and within wider dataset; dervied levels
Miscanthus	35	052/Misc/3	Fe2O3 in ash/Fe in fuel	1.54 %wt in normalised ash	Levels in ash high compared with other samples, both from the same location and within wider dataset; dervied levels in fuel therefore also excluded
			Ni in fuel	0.25 mg/kg	Significantly high compared with other samples, both from
			V in fuel	0.61 mg/kg	the same location and within wider dataset
Miscanthus	36	057/Misc/3	Pb in fuel	11.212 mg/kg	Significantly high compared with other samples, both from the same location and within wider dataset
SRF Coniferous	52	001/Stem/1	All ash oxides & derived elements in fuel Cr in fuel V in fuel	0.44 mg/kg 0.28 mg/kg	Levels of some components inconsistent with other samples- affects entire ash composition Significantly high compared with other samples, both from the same location and within wider dataset
SRF Coniferous	54	003/Stem/1	Na2O in ash	2.05 %wt in normalised ash	Levels in ash high compared with other samples, both from the same location and within wider dataset; dervied levels in fuel therefore also excluded
SRF Coniferous	61	004/Top/1	Pb in fuel	4.891 mg/kg	Significantly high compared with other samples, both from the same location and within wider dataset
SRF Coniferous	64	007/Stem/1	Fe2O3 in ash/Fe in fuel	3.42 %wt in normalised ash	Levels in ash high compared with other samples, both from the same location and within wider dataset; dervied levels in fuel therefore also excluded
SRF Coniferous	65	008/Stem/1	TiO2 in ash/Ti in fuel	1.16 %wt in normalised ash	Levels in ash high compared with other samples, both from the same location and within wider dataset; dervied levels in fuel therefore also excluded
SRF Coniferous	68	011/Stem/1	K2O in ash/K in fuel	7.34 %wt in normalised ash	Levels in ash low compared with other samples, both from the same location and within wider dataset; dervied levels in fuel therefore also excluded
SRF Coniferous	70	007/Top/1	P2O5 in ash/P in fuel	1.63 %wt in normalised ash	Levels in ash low compared with other samples, both from the same location and within wider dataset; dervied levels in fuel therefore also excluded

SRF Coniferous	71	008/Top/1	Na2O in ash/Na in fuel	2.11 %wt in normalised ash	Levels in ash high compared with other samples, both from
					the same location and within wider dataset; dervied levels
					in fuel therefore also excluded
SRF Coniferous	81	006/Stem/3	Fixed Carbon	4 %wt	Moisture content much higher than other samples - affects
			Hydrogen, as received	1.54 %wt	all results on an as received basis
			Moisture	75 %wt	
			Net CV as received	2877 %wt	
			Volatile Matter	20.8 %wt	
			GCV as received	5042 kJ/kg	
SRF Coniferous	90	009/Stem/3	Al2O3 in ash/Al in fuel	8.18 %wt in normalised ash	Levels in ash high compared with other samples, both from
					the same location and within wider dataset; dervied levels
					in fuel therefore also excluded
			Cu in fuel	2.98 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
SRF Coniferous	96	009/Top/3	SiO2 in ash/Si in fuel	24.47 %wt in normalised ash	Levels in ash high compared with other samples, both from
					the same location and within wider dataset; dervied levels
					in fuel therefore also excluded
SRF Coniferous	139	010/Stem/4	Sulphur as received	0.06 %wt	Sulphur on dry, ash-free basis is inconsistent with other
			Sulphur Dry, ash-free	0.15 %wt	samples so rejected on all bases
			Sulphur, dry	0.15 %wt	
SRF Coniferous	156	009/Bark/1	K2O in ash/K in fuel	22.06 %wt in normalised ash	Levels in ash high compared with other samples, both from
					the same location and within wider dataset; dervied levels
					in fuel therefore also excluded
SRF Coniferous	157	010/Bark/1	V in fuel	0.68 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
SRF Coniferous	158	011/Bark/1	Mn3O4 in ash/Mn in fuel	0.87 %wt in normalised ash	Levels in ash low compared with other samples, both from
					the same location and within wider dataset; dervied levels
					in fuel therefore also excluded
SRF Coniferous	167	008/Bark/3	Mn3O4 in ash/Mn in fuel	0.24 %wt in normalised ash	Levels in ash low compared with other samples, both from
					the same location and within wider dataset; dervied levels
					in fuel therefore also excluded
SRF Broadleaf Poplar	172	089/Stem/1	Ba in fuel	9.5 mg/kg	Excluded in error
SRF Broadleaf Poplar	178	086/Stem/1	Na2O in ash/Na in fuel	0.08 %wt in normalised ash	Levels in ash low compared with other samples, both from
					the same location and within wider dataset; dervied levels
					in fuel therefore also excluded
SRF Broadleaf Poplar	182	088/Top/1	Carbon, dry	53.06 %wt	C,H,N,O analysis on dry, ash-free basis is inconsistent with
			Carbon, dry ash-free	55.55 %wt	other samples so these elements also rejected on other
			Hydrogen, as received	2.28 %wt	bases
			Hydrogen, dry	5.5 %wt	
			Hydrogen, dry ash-free	5.76 %wt	
			Nitrogen, dry	1.35 %wt	
			Nitrogen, dry ash-free	1.41 %wt	
			Oxygen, dry ash-free	37.25 %wt	

			Co in fuel	1.39 mg/kg	Significantly high compared with other samples, both from
				0.07 //	the same location and within wider dataset
			V in fuel	0.37 mg/kg	Significantly high compared with other samples, both from
		/ /			the same location and within wider dataset
SRF Broadleaf Poplar	198	093/Stem/3	TiO2 in ash/Ti in fuel	0.46 %wt in normalised ash	Levels in ash high compared with other samples, both from
					the same location and within wider dataset; dervied levels
					in fuel therefore also excluded
			Pb in fuel	3.618 mg/kg	Significantly high compared with other samples, both from
		222 (2)			the same location and within wider dataset
SRF Broadleaf Poplar	200	086/Stem/3	All ash oxides & derived		Levels of some major components inconsistent with other
			elements in fuel		samples- affects entire ash composition
			V in fuel	0.56 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
SRF Broadleaf Poplar	206	093/Top/3	Pb in fuel	3.095 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
SRF Broadleaf Poplar	253	087/Top/4	Fixed Carbon	8.4 %wt	Volatile matter on a dry, ash-free basis is inconsistent with
			Volatile Matter	50.9 %wt	other samples, also affectes as received volatile matter and
			Volatile matter, dry, ash-free	85.8 %wt	fixed carbon
Miscanthus	263	084/Misc/1/IF	GCV, dry	19019 kJ/kg	DAF GCV inconsistent with other samples
			GCV, dry ash-free	19376 kJ/kg	
Miscanthus	270	082/Misc/4/IF	Hg in fuel	0.016 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
Miscanthus	275	084/Misc/5/IF	Pb in fuel	1.795 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
Miscanthus	276	082/Misc/6/IF	Fe2O3 in ash/Fe in fuel	31.19 %wt in normalised ash	High level of iron and other metals suggests that sample
			MgO in ash/Mg in fuel	2.51 %wt in normalised ash	was contaminated - most probably by a steel alloy -
			Mn3O4 in ash/Mn in fuel	0.25 %wt in normalised ash	impacting the ash composition
			Na2O in ash/Na in fuel	0.27 %wt in normalised ash	
			SiO2 in ash/Si in fuel	23.77 %wt in normalised ash	
			As in fuel	0.77 mg/kg	
			Co in fuel	0.6 mg/kg	
			Cr in fuel	5.01 mg/kg	
			Cu in fuel	18.57 mg/kg	
			Mo in fuel	0.87 mg/kg	
			Ni in fuel	6.36 mg/kg	
			Pb in fuel	11.267 mg/kg	
			Sb in fuel	0.25 mg/kg	
			V in fuel	0.32 mg/kg	
Miscanthus	277	083/Misc/6/IF	Hg in fuel	0.046 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
Miscanthus	279	082/Misc/7/IF	Cr in fuel	1.7 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
			V in fuel	0.93 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset

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vilscanthus	283	U83/MISC/8/IF	F IN TUEL	9.936 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
Miscanthus	286	083/Misc/9/IF	Pb in fuel	9.241 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
Miscanthus	289	083/Misc/10/IF	Moisture	34.2 %wt	Moisture content much higher than other samples - affects
					all results on an as received basis
Miscanthus	294	082/Misc/12/IF	Cu in fuel	7.35 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
			Pb in fuel	6.202 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
Miscanthus	296	084/Misc/12/IF	Pb in fuel	10.607 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
Miscanthus	308	084/Misc/16/IF	Cu in fuel	0.16 mg/kg	Significantly low compared with other samples, both from
					the same location and within wider dataset
Miscanthus	309	082/Misc/17/IF	Pb in fuel	3.411 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
Miscanthus	314	084/Misc/18/IF	Al2O3 in ash/Al in fuel	0.21 %wt in normalised ash	SiO2 in ash significantly lower & CaCO3 higher than in other
			BaO in ash/	0.21 %wt in normalised ash	samples from the same IFV site - affects other ash
			CaCO3 in ash/Ca in fuel	20.54 %wt in normalised ash	components and derived levels in fuel
			Fe2O3 in ash/Fe in fuel	0.22 %wt in normalised ash	
			MgO in ash/Mg in fuel	5.75 %wt in normalised ash	
			SiO2 in ash/Si in fuel	42.39 %wt in normalised ash	
			Pb in fuel	1.204 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
Miscanthus	319	083/Misc/20/IF	F in fuel	3.806 mg/kg	Significantly high compared with other samples, both from
				0.0	the same location and within wider dataset
SRC Willow	321	046/SRC-W/1/IF	Sb in fuel	0.17 mg/kg	Significantly high compared with other samples, both from
				0.0	the same location and within wider dataset
SRC Willow	327	046/SRC-W/3/IF	Hg in fuel	0.009 mg/kg	Significantly high compared with other samples, both from
	-	, - ,	Ni in fuel	0.97 mg/kg	the same location and within wider dataset
			Sb in fuel	1.27 mg/kg	
			V in fuel	0.15 mg/kg	
			Zn in fuel	128.27 mg/kg	
SRC Willow	337	047/SRC-W/6/IF	As in fuel	0.19 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
SRC Willow	346	047/SRC-W/9/IF	Al2O3 in ash/Al in fuel	3.78 %wt in normalised ash	SiO2 & Al2O3 levels in the ash are high compared with
	5.0		Fe2O3 in ash/Fe in fuel	1.48 %wt in normalised ash	samples from the same site, suggesting contamination with
			SiO2 in ash/Si in fuel	13.98 %wt in normalised ash	soil
			TiO2 in ash/Ti in fuel	0.26 %wt in normalised ash	301
			Crinfuel	0.7 mg/kg	Significantly high compared with other samples both from
			F in fuel	4 247 mg/kg	the same location and within wider dataset
			Ph in fuel	0.873 mg/kg	are sume rocation and within which dataset
			Vinfuel	0.65 mg/kg	
			v in luci	0.03 1116/ 116	

	1		Fe2O3 in ash/Fe in fuel	0.5 %wt in normalised ash	samples from the same site, suggesting contamination with
			Na2O in ash/Na in fuel	1.23 %wt in normalised ash	soil
			SiO2 in ash/Si in fuel	5.16 %wt in normalised ash	
			TiO2 in ash/Ti in fuel	0.85 %wt in normalised ash	
			Co in fuel	0.76 mg/kg	Significantly high compared with other samples, both from
			Cr in fuel	1.47 mg/kg	the same location and within wider dataset
			Cu in fuel	17.5 mg/kg	
			Mo in fuel	0.18 mg/kg	
			Ni in fuel	23.4 mg/kg	
			Pb in fuel	28.119 mg/kg	
			Sb in fuel	0.29 mg/kg	
			Zn in fuel	1054.96 mg/kg	
SRC Willow	357	046/SRC-W/13/IF	As in fuel	0.15 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
SRC Willow	360	046/SRC-W/14/IF	F in fuel	13.647 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
SRC Willow	361	047/SRC-W/14/IF	Volatile matter, dry ash-free	86.3 %wt	Higher than seen in other willow samples
			Cu in fuel	14.09 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
SRC Willow	362	048/SRC-W/14/IF	Hg in fuel	0.012 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
SRC Willow	372	046/SRC-W/18/IF	Pb in fuel	6.242 mg/kg	Significantly high compared with other samples, both from
					the same location and within wider dataset
SRC Willow	373	047/SRC-W/18/IF	Fe2O3 in ash/Fe in fuel	13.72 %wt in normalised ash	Significantly high compared with other samples, both from
					the same location and within wider dataset
SRC Willow	374	048/SRC-W/18/IF	GCV, dry	19125 kJ/kg	DAF GCV low compared with other samples
			GCV, dry ash-free	19438 kJ/kg	
Miscanthus Pellets WITH	412	SUN/PELLET/1/B+	All ash oxides		Additive included during the pelleting process has affected
ADDITIVE		ADD	All trace elements		ash compositon and levels of trace elements in the fuel
Miscanthus Pellets WITH	413	SUN/PELLET/2/B+	All ash oxides		Additive included during the pelleting process has affected
ADDITIVE		ADD	All trace elements		ash compositon and levels of trace elements in the fuel
Miscanthus Pellets WITH	414	SUN/PELLET/3/B+	All ash oxides		Additive included during the pelleting process has affected
ADDITIVE		ADD	All trace elements		ash compositon and levels of trace elements in the fuel