



Client:	British Sugar plc Co-Products
Client Ref:	LANDSCAPE 20 Specification
Date:	August 2013

Sample Reference

Clay (<0.002mm)	%	U
Silt (0.002-0.063mm)	%	U
Sand (0.063-2.0mm)	%	U
Texture Class (UK Classification)	--	U
Stones (2-20mm)	% DW	G
Stones (20-50mm)	% DW	G
Stones (>50mm)	% DW	G
pH Value (1:2.5 water extract)	units	U
Electrical Conductivity (1:2.5 water extract)	uS/cm	U
Electrical Conductivity (1:2 CaSO4 extract)	uS/cm	U
Organic Matter (WB)	%	U
Total Nitrogen (Dumas)	%	U
Extractable Phosphorus	mg/l	U
Extractable Potassium	mg/l	U
Extractable Magnesium	mg/l	U

Specification

5-35	BS
0-65	BS
30-85	BS
30	BS
10	BS
0	BS
5.5 - 8.5	BS
<1500	PJ
<2800	BS
3.0 - 20.0	BS
>0.15	BS
16-100	BS
121-900	BS
51-600	BS

Total Arsenic (As)	mg/kg	M
Total Barium (Ba)	mg/kg	M
Total Beryllium (Be)	mg/kg	M
Total Cadmium (Cd)	mg/kg	M
Total Chromium (Cr)	mg/kg	M
Chromium III	mg/kg	M
Hexavalent Chromium (VI)	mg/kg	M
Total Copper (Cu)	mg/kg	M
Total Lead (Pb)	mg/kg	M
Total Mercury (Hg)	mg/kg	M
Total Nickel (Ni)	mg/kg	M
Total Selenium (Se)	mg/kg	M
Total Vanadium (V)	mg/kg	M
Total Zinc (Zn)	mg/kg	M
Water Soluble Boron (B)	mg/kg	M
Total Cyanide (CN)	mg/kg	M
Total (mono) Phenols	mg/kg	M
Elemental Sulphur (S)	mg/kg	M
Acid Volatile Sulphide (S)	mg/kg	M
Water Soluble Sulphate (SO4)	g/l	M

<32	SGV^
<500	PJ
<51	LQM^
<10	SGV^
<130	(SGV)
<3000	LQM^
<4.3	LQM^
<200	BS*
<450	(SGV)
<170	SGV^
<110	BS*
<350	SGV^
<75	LQM^
<300	BS*
<5	PJ
<20	DAV
<420	SGV^
<500	PJ
<25	PJ
<1.2	BRE

Naphthalene	mg/kg	M
Acenaphthylene	mg/kg	M
Acenaphthene	mg/kg	M
Fluorene	mg/kg	M
Phenanthrene	mg/kg	M
Anthracene	mg/kg	M
Fluoranthene	mg/kg	M
Pyrene	mg/kg	M
Benzo(a)anthracene	mg/kg	M
Chrysene	mg/kg	M
Benzo(b)fluoranthene	mg/kg	M
Benzo(k)fluoranthene	mg/kg	M
Benzo(a)pyrene	mg/kg	M
Indeno(1,2,3-cd)pyrene	mg/kg	M
Dibenzo(a,h)anthracene	mg/kg	M
Benzo(g,h,i)perylene	mg/kg	M
Total PAHs (sum USEPA16)	mg/kg	M

<3.7	LQM^
<400	LQM^
<480	LQM^
<380	LQM^
<200	LQM^
<4900	LQM^
<460	LQM^
<1000	LQM^
<4.7	LQM^
<8.0	LQM^
<6.5	LQM^
<9.6	LQM^
<0.94	LQM^
<3.9	LQM^
<0.86	LQM^
<46	LQM^
<40	PJ

Aliphatic TPH (C5-C6)	mg/kg	M
Aliphatic TPH (C6-C8)	mg/kg	M
Aliphatic TPH (C8-C10)	mg/kg	M
Aliphatic TPH (C10-C12)	mg/kg	M
Aliphatic TPH (C12-C16)	mg/kg	M
Aliphatic TPH (C16-C21)	mg/kg	M
Aliphatic TPH (C21-C35)	mg/kg	M
Aliphatic TPH (C35-C44)	mg/kg	M
Aromatic TPH (C5-C7)	mg/kg	M
Aromatic TPH (C7-C8)	mg/kg	M
Aromatic TPH (C8-C10)	mg/kg	M
Aromatic TPH (C10-C12)	mg/kg	M
Aromatic TPH (C12-C16)	mg/kg	M
Aromatic TPH (C16-C21)	mg/kg	M
Aromatic TPH (C21-C35)	mg/kg	M
Aromatic TPH (C35-C44)	mg/kg	M

<55	LQM^
<160	LQM^
<46	LQM^
<230	LQM^
<1700	LQM^
<64000	LQM^
<64000	LQM^
<130	LQM^
<270	LQM^
<85	LQM^
<160	LQM^
<310	LQM^
<480	LQM^
<1100	LQM^
<1100	LQM^

Benzene	mg/kg	M
Toluene	mg/kg	M
Ethylbenzene	mg/kg	M
p-xylene	mg/kg	M
m-xylene	mg/kg	M
o-xylene	mg/kg	M

<0.33	SGV^
<610	SGV^
<350	SGV^
<230	SGV^
<240	SGV^
<250	SGV^

Asbestos	Present/Absent	I
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Absent	COAR
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BS	BS3882:2007
SGV	Soil Guideline Values (Contaminated Land Exposure Assessment (CLEA) (2009)
(SGV)	Former Soil Guideline Values (Contaminated Land Exposure Assessment (CLEA) (2002)
LQM	Land Quality Management Generic Assessment Criteria (2009)
COAR	Control of Asbestos Regulations (2006)
DAV	Dutch Action Value
BRE	BRE Special Digest 1: 2005, Concrete in Aggressive Ground
PJ	Professional Judgement
*	pH dependant
^	Organic Matter level dependant
M	MCERTS accredited method (& UKAS accredited method)
U	UKAS accredited method
I	ISO 17025 accredited method
G	GLP accredited method

TIM O'HARE ASSOCIATES
SOIL & LANDSCAPE CONSULTANCY