Waste Acceptance Criteria Testing BS EN 12457
Part 3, 2 Stage Process
Issue 4

Sample Details		Test Values	
Sample Number	13141725	Mass of Raw Test Portion (MW) kg	0.175
Job Number	878760	Mass of Dried Test Portion (MD) kg	0.175
Sample ID	TPA	Moisture Content Ratio (MC) %	0.2
Site	Chadwich Lane Quarry	Dry Matter Content Ratio (DR) %	99.8
Job Description	Soil Analysis	Moisture Content @ 105c	0.2
Date Sampled	23/9/2012	Leachant Volume (1) (L2) Litre	0.35
Date Received	24/9/2012	Leachant Volume (2) (L8) Litre	1.4
Particle Size (<4mm)	<=95%	Eluate Volume (1) (VE1) Litre	0.3
Method of size reduction	Jaw Crusher	Eluate Volume (2) (VE2) Litre	1.35
Non-crushable matter	N/A		

Eluate Analysis	Concentration in Eluate		Amount Leached		Landfill Waste Acceptance Criteria		
Liquid:Waste Ratio	2:1	8:1	2:1	10:1	BS EN 12457-3 Limit Values (mg/Kg) at L:S 10:1		
Sample Number	13141739	13141740					
pH	7.03	8.33					
Temperature °C	20	19					
Conductivity uS/cm	264	59.2					
	mg/l	mg/l	mg/Kg	mg/Kg	*Inert Waste*	*Stable Non-Reactive hazardous waste in non-hazardous*	*Hazardous Waste*
Arsenic as As	<0.0050	<0.0050	<0.010	**<0.050**	*0.5*	*2*	*25*
Barium as Ba	0.01	<0.010	0.02	**0.017**	*20*	*100*	*300*
Cadmium as Cd	<0.00010	<0.00010	<0.00020	**<0.0010**	*0.04*	*1*	*5*
Chromium as Cr	0.014	0.006	0.028	**0.074**	*0.5*	*10*	*70*
Copper as Cu	<0.010	<0.010	<0.020	**<0.100**	*2*	*50*	*100*
Mercury as Hg	<0.00050	<0.00050	<0.0010	**<0.0050**	*0.01*	*0.2*	*2*
Molybdenum as Mo	0.002	0.003	0.004	**0.028**	*0.5*	*10*	*30*
Nickel as Ni	<0.020	<0.020	<0.040	**<0.20**	*0.4*	*10*	*40*
Lead as Pb	<0.010	<0.010	<0.020	**<0.100**	*0.5*	*10*	*50*
Antimony as Sb	<0.0060	<0.0060	<0.012	**<0.060**	*0.06*	*0.7*	*5*
Selenium as Se	<0.010	<0.010	<0.020	**<0.100**	*0.1*	*0.5*	*7*
Zinc as Zn	<0.025	<0.025	<0.050	**<0.25**	*4*	*50*	*200*
Chloride as Cl	6.06	<3.00	12	**10**	*800*	*15000*	*25000*
Fluoride as F	0.2	<0.2	0.4	**0.34**	*10*	*150*	*500*
Sulphate as SO4	70	3.2	140	**150**	*1000*	*20000*	*50000*
Total Dissolved Solids (TDS)	321	28	640	**780**	*4000*	*60000*	*100000*
Phenol Index					*1*		
Dissolved Organic Carbon (DOC)	3.8	<0.7	7.6	**6.5**	*500*	*800*	*1000*
Waste Analysis							
Total Organic Carbon w/w %				**6.1**	*3%*	*5%*	*6%*
Loss on Ignition %				**1.6**			*10%*
BTEX mg/Kg					*6*		
PCBs (7 congeners) mg/Kg					*1*		
Mineral Oil (C10-C40) mg/Kg					*500*		
PAHs mg/Kg					*100*		
pH				**8.3**		*>6*	
Acid Neutralisation Capacity (pH4) mol/Kg				**0.055**		*To be evaluated*	*To be evaluated*
Acid Neutralisation Capacity (pH7) mol/Kg				**0.0075**		*To be evaluated*	*To be evaluated*

Disclaimer: Eluate concentrations below the detection limit are assumed to be negligible when calculating mg/kg values. The limits quoted for Waste Acceptance are derived from the Landfill (England and Wales) Regulations 2002 (as amended) and are provided as guidance only. STS does not take responsibility for any errors or omissions with regard to these limits.

Additional Eluate Analysis	Concentration in Eluate		Amount Leached	
	2:1	8:1	2:1	10:1
	mg/l	mg/l	mg/Kg	**mg/Kg**

Additional Waste Analysis	Units	Result
Conductivity @ 20 C	uS/cm	**200**

Sample Comments	
13141725	Stainless Steel Sieve
13141739	
13141740	