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

SEVERN TRENT SERVICES

Sample Details		Test Values	
Sample Number	11962974	Mass of Raw Test Portion (MW) kg	0.18
Job Number	721864	Mass of Dried Test Portion (MD) kg	0.175
Sample ID	TP1	Moisture Content Ratio (MC) %	2.99
Site	Chadwich Lane	Dry Matter Content Ratio (DR) %	97.1
Job Description	WAC Analysis	Moisture Content @ 105c	2.9
Date Sampled		Leachant Volume (1) (L2) Litre	0.345
Date Received	07/09/2010	Leachant Volume (2) (L8) Litre	1.4
Particle Size (<4mm)	<=95%	Eluate Volume (1) (VE1) Litre	0.233
Method of size reduction	jaw crusher	Eluate Volume (2) (VE2) Litre	1.32
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	11962975	11962976					
pH	9.24	8.94			***Inert Waste***	***Stable Non-Reactive hazardous waste in non-hazardous***	***Hazardous Waste***
Temperature ℃	10	19					
Conductivity uS/cm	1158	165.8					
	mg/l	**mg/l**	**mg/Kg**	**mg/Kg**			
Arsenic as As	<0.0050	<0.0050	<0.010	**<0.050**	*0.5*	*2*	*25*
Barium as Ba	0.027	<0.010	0.054	**0.036**	*20*	*100*	*300*
Cadmium as Cd	<0.00010	<0.00010	<0.00020	**<0.0010**	*0.04*	*1*	*5*
Chromium as Cr	0.016	<0.0025	0.032	**0.021**	*0.5*	*10*	*70*
Copper as Cu	0.067	0.013	0.13	**0.2**	*2*	*50*	*100*
Mercury as Hg	0.001	<0.00050	0.002	**0.0013**	*0.01*	*0.2*	*2*
Molybdenum as Mo	0.046	<0.0020	0.092	**0.061**	*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	**<0.10**	*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	**<0.10**	*0.1*	*0.5*	*7*
Zinc as Zn	<0.025	<0.025	<0.050	**<0.25**	*4*	*50*	*200*
Chloride as Cl	83.2	4.3	170	**150**	*800*	*15000*	*25000*
Fluoride as F	1.7	0.5	3.4	**6.6**	*10*	*150*	*500*
Sulphate as SO4	416	30.1	830	**810**	*1000*	*20000*	*50000*
Total Dissolved Solids (TDS)	870	99	1700	**2000**	*4000*	*60000*	*100000*
Phenol Index	<0.15	<0.15	<0.30	**<1.5**	*1*		
Dissolved Organic Carbon (DOC)	20.6	5.77	41	**77**	*500*	*800*	*1000*
Waste Analysis							
Total Organic Carbon w/w %				**1.1**	*3%*	*5%*	*6%*
Loss on Ignition %							*10%*
BTEX mg/Kg					*6*		
PCBs (7 congeners) mg/Kg				**<0.010**	*1*		
Mineral Oil (C10-C40) mg/Kg				**350**	*500*		
PAHs mg/Kg				**71**	*100*		
pH				**9.2**		*>6*	
Acid Neutralisation Capacity (pH4) mol/Kg						*To be evaluated*	*To be evaluated*
Acid Neutralisation Capacity (pH7) mol/Kg						*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	**1300**
Benzene	mg/kg	**<0.10**
Toluene	mg/kg	**<0.10**
Ethylbenzene	mg/kg	**<0.10**
m&p-Xylene	mg/kg	**<0.20**
o-Xylene	mg/kg	**<0.10**

Sample Comments	
11962974	stainless steel sieve
11962975	
11962976	