

Waste Classification Report

Analysing

Testing

Consulting

Calibrating



BHP

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Thomondgate

Limerick

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Client: Roadbridge Ltd

Crossagalla

Category A

Soil and Stone only which are free from anthropogenic materials such as concrete, brock timber. Soil must be free from "contamination" e.g. PAHs, Hydrocarbons

Ballysimon Road

Category B1

Reported concentrations within inert waste limits, which are set out by the adopted EU Council Decision 2003/33/EC establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 and Annex II of Directive 1999/31/EC (2002).

Limerick

Category B2

Reported concentrations greater than Category B1 criteria but less than IMS Hollywood Landfill acceptance criteria, as set out in their Waste Licence W0129-02.

Category C

Reported concentrations greater than Category B2 criteria but within non-haz landfill waste acceptance limits set out by the adopted EU Council Decision 2003/33/EC establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 and Annex II of Directive 1999/31/EC (2002).

FAO: Barry O'Riordan

Category C1

As Category C but containing <0.001% w/w asbestos fibres

Site: RB Dublin Port

Category C2

As Category C but containing >0.001% and <0.01% w/w asbestos fibres

Category C3

As Category C but containing >0.01% and <0.1% w/w asbestos fibres

Category D

Results found to be hazardous using HWOL Application

Category D1

Results found to be hazardous due to the presence of asbestos >0.1%

Parameter	Sample Preparation	BOUND WALL S3.01	BOUND WALL S4.01	BOUND WALL S1.01	BOUND WALL S2.01	FLOOR SAMPLE ZONE 5	FLOOR SAMPLE ZONE 7	SCREENED STONE ZONE 5	SCREENED STONE ZONE 7	Inert limit	Non-hazardous waste limit	Hazardous Waste limit	Units
		Landfill waste acceptance criteria										(dry substance)	
Arsenic as As	L/S=10L/Kg	0.007	0.012	0.009	0.011	0.027	0.016	0.016	0.024	0.5	2	25	mg/kg
Barium as Ba	L/S=10L/Kg	2.100	0.361	1.680	0.231	0.220	0.198	0.596	0.495	20	100	300	mg/kg
Cadmium as Cd	L/S=10L/Kg	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.04	1	5	mg/kg
Chromium as Cr	L/S=10L/Kg	0.173	0.125	0.177	<0.01	0.015	0.012	0.037	0.068	0.5	10	70	mg/kg
Copper as Cu	L/S=10L/Kg	0.109	0.202	0.202	0.003	0.050	0.040	0.034	0.069	2	50	100	mg/kg
Mercury as Hg	L/S=10L/Kg	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.01	0.2	2	mg/kg
Molybdenum as Mo	L/S=10L/Kg	0.054	0.109	0.067	<0.03	<0.03	<0.03	0.048	0.086	0.5	10	30	mg/kg
Nickel as Ni	L/S=10L/Kg	0.003	0.004	0.006	0.000	0.001	0.001	<0.0004	0.001	0.4	10	40	mg/kg
Lead as Pb	L/S=10L/Kg	0.057	0.023	0.039	<0.002	0.003	<0.002	<0.002	0.002	0.5	10	50	mg/kg
Antimony as Sb	L/S=10L/Kg	0.001	0.003	0.002	0.002	0.011	0.008	0.009	0.007	0.06	0.7	5	mg/kg
Selenium as Se	L/S=10L/Kg	<0.01	0.011	<0.01	<0.01	0.020	0.020	0.011	0.013	0.1	0.5	7	mg/kg
Zinc as Zn	L/S=10L/Kg	0.034	0.055	0.024	<0.01	<0.01	1.300	1.920	0.017	4	50	200	mg/kg
Chloride as Cl	L/S=10L/Kg	236	114	303	<20	1400	1770	573	1030	800	15000	25000	mg/kg
Fluoride as F	L/S=10L/Kg	<5	<5	<5	<5	<5	<5	<5	<5	10	150	500	mg/kg
Sulphate as SO ₄	L/S=10L/Kg	110	280	177	3990	387	508	358	539	1000	20000	50000	mg/kg
Total Dissolved Solids (TDS)	L/S=10L/Kg	17500	9450	14900	5950	5820	6740	4220	7340	4000	60000	100000	mg/kg
Phenol Index	L/S=10L/Kg	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	1	-	-	mg/kg
Dissolved Organic Carbon	L/S=10L/Kg	35.2	31.7	48	<30	<30	31.6	34.8	<30	500	800	1000	mg/kg
BTEX	-	<0.8	<0.8	<0.040	<0.8	<0.040	<0.040	<0.8	0.0934	6	-	-	mg/kg
Total Organic Carbon	-	0.295	0.605	0.272	0.337	0.324	0.287	0.387	0.421	3%	-	6%	%
PCBs (7 congeners)	-	<0.021	<0.021	<0.105	<0.021	<0.021	<0.021	<0.021	<0.105	1	-	-	mg/kg
Mineral Oil (>C10-C40)	-	103	63.6	152	5.89	25.6	14.8	460	538	500	-	-	mg/kg
PAHs (17)	-	<10	<10	<10	<10	<10	<10	<10	<10	100	-	-	mg/kg
pH	-	12.2	12.0	12.2	8.0	11.1	11.1	11.5	11.4	-	-	-	pH units
Acid Neutralisation Capacity	-	0.7340	0.7870	0.7560	1.2700	0.6690	4.2100	6.9600	7.6000	-	-	must be evaluated	mol/kg
Loss on Ignition	-	7.8	6.5	5.8	0.8	1.1	0.9	1.2	2.0	-	-	10%	%
Dry matter content	-	91.8	0.5	91.6	95.7	93.6	92.7	97.6	97.5	-	-	-	%
Classification		B2	B2	B2	B2	B2	B2	B2	B2	B2			

Disclaimer: The limit of detection is represented by the < sign. The limits quoted are derived from "acceptance of waste at landfills" Council Decision (2003/33/EC). BHP does not take responsibility for any errors or omissions with regard to these limits.

Signed for and on behalf of BHP Laboratories Ltd.

Dervla Purcell
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