

Test Report Ref.: TR 741526

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Tarmac Trading Limited
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Wood Lane,
Quorn,
Leics,
LE12 8GE

Date: 22 July 2020

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Waste Acceptance Criteria, EA Landfill Directive Reg Note 2 in accordance with **Standard Methods for the Examination of Water and Wastewater: 19th Edition: 1995 and BS EN 12457:3:2002.**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S88673
Client Ref. No:	20-1839
Date and Time of Sampling:	26/06/2020
Date of Receipt at Lab:	09/07/2020
Date of Start of Test.:	15/07/2020
Sampling Location:	Unknown
Name of Source:	Mountsorrel
Method of Sampling:	Unknown
Sampled By:	Client
Material Type and Nominal Size:	Overburden
Target Specification:	N/A

RESULTS:

SEE ATTACHED

Comments:

The work was carried out by our accredited, competent, subcontracted laboratory.

Report checked and approved by:



Joseph Parry
Aggregate Job Coordinator

Results: TOTAL WAC ANALYSIS – S88673

<u>Parameter</u>	<u>S88673 Ref '201839 Overburden'</u>
TOTAL ANALYSIS	
Total Moisture (%)	13
Total Organic Carbon (%)	0.11
Loss on Ignition (%)	1.5
BTEX (mg/kg)	< 0.01
PCBs 7 congeners (mg/kg)	< 0.03
Mineral Oil C10-C40 (mg/kg)	< 5
Total PAHs (EPA16) (mg/kg)	< 2
pH	9.1
ANC to pH 4 (mol/kg)	< 0.1

Results: LEACHATE WAC ANALYSIS – S88673

<u>Parameter</u>	<u>S88673 Ref '201839 Overburden'</u>
LEACHATE ANALYSIS	
Arsenic (mg/kg)	< 0.05
Barium (mg/kg)	1.61
Cadmium (mg/kg)	< 0.01
Chromium (mg/kg)	< 0.05
Copper (mg/kg)	< 0.05
Mercury (µg/kg)	< 0.01
Molybdenum (mg/kg)	< 0.05
Nickel (mg/kg)	< 0.05
Lead (mg/kg)	< 0.05
Antimony (mg/kg)	< 0.05
Selenium (mg/kg)	< 0.05
Zinc (mg/kg)	< 0.05
Chloride (mg/kg)	< 50
Fluoride (mg/kg)	< 10
Sulphate (mg/kg)	92.60
Total Dissolved Solids (mg/kg)	785.00
Phenols index (mg/kg)	< 0.10
Dissolved organic carbon (mg/kg)	94.00

Interpretation: WASTE ACCEPTANCE CRITERIA ASSESSMENT

The results of assessment of the analytical parameters tested with respect to WAC status are tabulated below:

Sample Reference	WAC CLASSIFICATION STATUS
S88673 Ref '201839 Overburden'	Inert Waste

Conclusions

S88673 Ref '201839 Overburden' – WAC CLASSIFICATION

The results of WAC analysis of sample referenced S88673 Ref '201839 Overburden' indicate that the relevant parameters comply with the inert waste landfill classification limits, where such exist; as such, the material is classified as suitable for disposal at an **INERT WASTE** licensed landfill.

Note that the WAC Waste classification is an indicator of the suitability of a landfill to receive such waste for disposal (in accordance with the appropriate licence). The results of WAC analysis do not determine whether a waste is hazardous or not, this is only achieved by following the procedures to be used in the determination of whether a waste is hazardous cited in The Environment Agency document "**Technical Guidance, WM3**".

WAC summary of results table appended.

WAC SUMMARY OF RESULTS

Sample Reference	S88673 Ref '201839 Overburden'	Landfill Waste Acceptance Criteria Limits		
		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Sampling Date	-			
Solid Waste Analysis				
Total Organic Carbon (%)	0.11	3	5	6
Loss on Ignition (%)	1.5	-	-	10
Sum of BTEX (mg/kg)	< 0.01	6	-	-
Sum of 7 PCBs (mg/kg)	< 0.03	1	-	-
Mineral Oil (mg/kg)	< 5	500	-	-
PAH Sum of 17 (mg/kg)	< 2	100	-	-
pH (pH Units)	9.1	-	>6	-
ANC to pH 4 (mol/kg)	< 0.1	-	to be evaluated	to be evaluated
Eluate Analysis (mg/kg)	Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
Arsenic	< 0.05	0.5	2	25
Barium	1.61	20	100	300
Cadmium	< 0.01	0.04	1 (UK 0.1)	5 (UK 1)
Chromium	< 0.05	0.5	10	70
Copper	< 0.05	2	50	100
Mercury	< 0.01	0.01	0.2 (UK 0.02)	2 (UK 0.4)
Molybdenum	< 0.05	0.5	10	30
Nickel	< 0.05	0.4	10	40
Lead	< 0.05	0.5	10	50
Antimony	< 0.05	0.06	0.7	5
Selenium	< 0.05	0.1	0.5	7
Zinc	< 0.05	4	50	200
Chloride	< 50	800	15000	25000
Fluoride	< 10	10	150	500
Sulphate as SO ₄	92.60	1000	20000	50000
Total Dissolved Solids	785.00	4000	60000	100000
Phenol Index	< 0.10	1	-	-
Dissolved Organic Carbon	94.00	500	800	1000

END OF REPORT