



Test Certificate

Client: ADM Regeneration Ltd
Warrington Lane, Lymm, WA13 0SA
Site: Glan Gors - Ref 10309
Date Tested: 07/01/14, 23/06/14, 27/06/14, 30/06/14
Date Reported: 1 July, 2014
Date Received: 20 June, 2014
Sample Type: Solid

Certificate No: 14/2456/RG/S/C1
File No: 14/2456/RG/S
Client Ref: 10309/JR/041

Lab sample ref:	C182073	C182074	C182075
Client sample ref:	P1	P2	P3
Date sampled:	17/06/14	17/06/14	17/06/14
Sample matrix (see notes page):	S	S	S

Determinand	Method	Units	ISO17025	MCERTS	LOD
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Deviation Assessment

Deviation(s)	C. Review	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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pH	AN5a	Units	Y	Y	0.1	5.19	5.13	5.56
Phenols (screen) _M	AN45d	mg/kg	N	N	1	<1	<1	<1
Boron (water soluble)	AN03	mg/kg	Y	N	0.1	16.0	17.3	7.3
Chromium (VI)	AN7	mg/kg	Y	Y	1	<1.0	<1.0	<1.0

CLEA Metals Suite

Arsenic	AN8b	mg/kg	Y	Y	2	114.1	115.3	37.0
Barium	AN8b	mg/kg	Y	Y	2	8.7	8.3	85.1
Beryllium	AN8a	mg/kg	Y	N	1	1.6	1.6	1.1
Cadmium	AN8a	mg/kg	Y	N	1	1.6	1.6	<1.0
Chromium (total)	AN8b	mg/kg	Y	Y	2	9.3	8.7	13.8
Copper	AN8b	mg/kg	Y	Y	2	67.0	75.8	18.0
Lead	AN8b	mg/kg	Y	Y	2	23.6	19.7	22.0
Mercury	AN8a	mg/kg	Y	N	1	<1.0	<1.0	<1.0
Nickel	AN8b	mg/kg	Y	Y	2	55.9	58.1	33.2
Selenium	AN8a	mg/kg	Y	N	1	<1.0	<1.0	<1.0
Vanadium	AN8b	mg/kg	Y	Y	2	13.0	13.9	13.3
Zinc	AN8b	mg/kg	Y	Y	2	50.9	32.0	57.5

Sample Prep(C)

EMR	EMR	%	N	N/A	0.1	<0.1	<0.1	<0.1
% Stones	Stones	%	N	N/A	0.1	0.0	0.0	0.0
Moisture Content @ <30 °C	AN1	%	Y	N/A	0.1	68.7	72.5	52.3
Sample Description	MCERTS ver4.		N	N/A		2	2	4

Misc

Cyanide (free) _M	CTP18a	mg/kg	Y	Y	1	<1	<1	<1
Cyanide (complex) _M	AN45e	mg/kg	N	N	1	<1	<1	<1
Cyanide (total) _M	AN45f	mg/kg	N	N	1	<1	<1	<1
Thiocyanate _M	AN26a	mg/kg	Y	N	2	<2	<2	<2
TOC	AN48b	%	N	N	0.1	19.8	20.2	12.6

PAH (USEPA16)

Acenaphthene _M	GCM501	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
Acenaphthylene _M	GCM501a	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
Anthracene _M	GCM501	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
Benz(a)anthracene _M	GCM501	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene _M	GCM501	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene _M	GCM501	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene _M	GCM501	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene _M	GCM501	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
Chrysene _M	GCM501	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
Dibenz(a,h)anthracene _M	GCM501	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
Fluoranthene _M	GCM501	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
Fluorene _M	GCM501	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene _M	GCM501a	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
Naphthalene (PAH) _M	GCM501	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
Phenanthrene _M	GCM501	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
Pyrene _M	GCM501	mg/kg	Y	Y	0.1	<0.1	<0.1	<0.1
PAH (USEPA16) Total _M	GCM501	mg/kg	Y	Y	1	<1	<1	<1



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Determinand	Method	Units	ISO17025	MCERTS	LOD			
TPH Banded(Al/Aro) 1								
EC>5-6 Aliphatic _M	SOP05	µg/kg	Y	N	10	<10	<10	<10
EC>6-8 Aliphatic _M	SOP05	µg/kg	Y	N	10	<10	<10	<10
EC>8-10 Aliphatic _M	SOP05a	µg/kg	Y	N	1000	<1000	<1000	<1000
EC>10-12 Aliphatic _M	SOP05a	µg/kg	Y	N	1000	<1000	<1000	<1000
EC>12-16 Aliphatic _M	SOP05a	µg/kg	Y	N	1000	<1000	<1000	<1000
EC>16-35 Aliphatic _M	SOP05a	µg/kg	Y	N	1000	23642	21818	9015
EC>35-44 Aliphatic _M	SOP05a	µg/kg	Y	N	1000	<1000	<1000	<1000
Total Aliphatics (1) _M	SOP05a	µg/kg	Y	N	1000	23642	21818	9015
EC>5-7 Aromatic _M	SOP05	µg/kg	Y	N	10	<10	<10	<10
EC>7-8 Aromatic _M	SOP05	µg/kg	Y	N	10	<10	<10	<10
EC>8-10 Aromatic _M	SOP05a	µg/kg	Y	N	1000	<1000	<1000	<1000
EC>10-12 Aromatic _M	SOP05a	µg/kg	Y	N	1000	<1000	<1000	<1000
EC>12-16 Aromatic _M	SOP05a	µg/kg	Y	N	1000	<1000	<1000	<1000
EC>16-21 Aromatic _M	SOP05a	µg/kg	Y	N	1000	<1000	<1000	<1000
EC>21-35 Aromatic _M	SOP05a	µg/kg	Y	N	1000	23642	21455	8805
EC>35-44 Aromatic _M	SOP05a	µg/kg	Y	N	1000	3195	<1000	<1000
Total Aromatics (1) _M	SOP05a	µg/kg	Y	N	1000	26837	21455	8805
Methyl t-butyl ether _M	SOP05	µg/kg	Y	N	10	<10	<10	<10
Benzene (VPH) _M	SOP05	µg/kg	Y	N	10	<10	<10	<10
Toluene (VPH) _M	SOP05	µg/kg	Y	N	10	<10	<10	<10
Ethylbenzene (VPH) _M	SOP05	µg/kg	Y	N	10	<10	<10	<10
m&p-Xylene (VPH) _M	SOP05	µg/kg	Y	N	10	<10	<10	<10
o-Xylene (VPH) _M	SOP05	µg/kg	Y	N	10	<10	<10	<10
Total VPH _M	SOP05	µg/kg	Y	N	10	<10	<10	<10
TPH _M	SOP05a	µg/kg	Y	N	1000	50479	43273	17820

Notes

- All analyses performed on the sample dried at <30°C, except analyses suffixed with 'M'.
- Analyses suffixed 'M' were performed on the sample as received and corrected for % moisture at <30°C where applicable.
- All results are expressed as dry weight.
- MCERTS accreditation applicable to Sample Matrix 'S' only.
- Natural stones (pebbles, gravels etc.) which do not pass a 2mm sieve are excluded from dried analyses.
- Tests marked * indicate subcontracted analyses.
- The laboratory has tested the material/items supplied by the client as sampled in accordance with the client's own requirements.
- *Sample Description key: 1. - Sand, 2. Loam, 3. Clay, 4. Sand/loam mix, 5. Sand/clay mix, 6. Clay/loam mix, 7. Other.
suffixed with: A - Stones, B - Construction rubble, C - Visible Hydrocarbons, D - Vegetation, E - Glass/metal, F - Strong odour, G - Other.
- Leachate preparation is not included in our UKAS accreditation.
- Dates of testing for all parameters are available upon request.

Signed for, and on behalf of Exova (UK) Ltd.

Prepared by:

J Barr

F Barr
Administrator

Approved by:

Julie McElory

J McElory
Laboratory Manager



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