

**LABORATORY TEST CERTIFICATE
MATERIALS LABORATORY**



Certificate No: 7063/21

To : Sean Bennett

Client : Tarmac Ltd
Alms Field Road
Warrington
WA1 2DS

Date: 06/12/2021

Dear Sirs,

FIELD & LABORATORY TESTING

Introduction

We refer to site testing undertaken at Whiston Juniors, Whiston.

Tested By : ERDA Ltd

Sample Reference : N/A

Description : See attached

Date Sampled : N/A

Date Tested : 1st December 2021

Source : Not stated

Weather : N/A

Test Results :

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
All remaining samples for this project will be disposed of 28 days after issue of this test certificate
When a statement of conformity is requested for a test result against limits set out in a standard or specification (e.g. BS EN ISO, SHW) that already considers measurement uncertainty, MATtest Midlands decision rule is to follow conformity requirements of the applicable standard or specification.
Results reported only relate to the items tested/ received.

Remarks;

Approved for Issue:



G. Nuttall
Manager

Position:



7533

Issuing Office:



Head Office & Central

Unit 5 Draycott Mills, Off Market Street, Draycott, Derby, DE72 3NB

Tel: 03333 202521 Web: www.mattestlaboratories.co.uk



			Web: www.erda-ltd.co.uk Email: p.devitt@erda-ltd.co.uk Mob: 07531 051197			Date: 1st December 2021 Ground Level: Orientation: Coordinates: Plant: Window Sample Rig Dimensions:										BOREHOLE NO. WS01	
CLIENT MATtest Midlands Ltd													Sheet No. 1 of 1				
SITE LOCATION Whiston Juniors, Whiston													Job No. EAL.167.21				
Description of Strata	Reduced level (m)	Legend	Depth (Thickness) m	SAMPLES/TESTS			SPT Results						N Value	Installation	Test Sample Details		
				Depth	No	Type	Sitting		Test Drive								
MADE GROUND comprising black sandy gravel. Gravel is fine to coarse sub-angular to angular brick, tarmac and quartzite.	0.10 0.20		0.20 (0.20)														
MADE GROUND comprising dark brown sandy clay (buried topsoil).	0.30 0.40		0.40 (0.20)														
MADE GROUND comprising grey mottled brown sandy gravelly clay. Gravel is fine to coarse sub-angular to angular mudstone and coal.	0.50 0.60 0.70 0.80 0.90 1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.70		1.70 (1.30)				2	3	4	4	5	5	18				
Very stiff yellowish brown mottled orange silty sandy CLAY.	1.80 1.90 2.00 2.10 2.20 2.30 2.40 2.50 2.60 2.70 2.80 2.90 3.00 3.10 3.20 3.30 3.40 3.50		3.50 (1.80)				4	5	5	5	6	7	23				
Stiff yellow mottled light grey silty sandy CLAY.	3.60 3.70 3.80 3.90 4.00 4.10 4.20 4.30 4.40 4.50 4.60 4.70 4.80 4.90 5.00		5.00 (1.50)				4	5	5	5	5	5	20				
							5	6	6	7	7	8	28				

Borehole terminated at 5.00mbgl.

Casing record			Chiselling records									
Date	Diameter (mm)	Depth (m)	Time	From (m)	To (m)	Date	Water strike	Water level (after 20mins)	Flow	Standing level	Remarks	
Remarks: 1. Gas/groundwater monitoring standpipe installed to 4.50m (GL to 3.50m plain/bentonite, 3.50m to 4.50m slotted/gravel). 2. No groundwater encountered. 3. Borehole collapsed from 4.50mbgl.									Logged By: PD	Checked By: PD	Date: 02.12.21	Scale: NTS

			Web: www.erda-ltd.co.uk Email: p.devitt@erda-ltd.co.uk Mob: 07531 051197			Date: 1st December 2021 Ground Level: Orientation: Coordinates: Plant: Window Sample Rig Dimensions:			BOREHOLE NO. WS02 Sheet No. 1 of 1 Job No. EAL. 167.21					
CLIENT MATtest Midlands Ltd														
SITE LOCATION Whiston Juniors, Whiston														
Description of Strata	Reduced level (m)	Legend	Depth (Thickness) m	SAMPLES/TESTS			SPT Results					N Value	Installation	Test Sample Details
				Depth	No	Type	Seating	Test Drive						
MADE GROUND comprising black sandy gravel. Gravel is fine to coarse sub-angular to angular brick, tarmac and quartzite.	0.10 0.20 0.30		0.30 (0.30)											
MADE GROUND comprising grey mottled brown sandy gravelly clay. Gravel is fine to coarse sub-angular to angular mudstone and coal.	0.40 0.50 0.60 0.70 0.80 0.90 1.00 1.10 1.20 1.30 1.40		1.40 (1.10)				2	2	2	2	2	2	8	
Very stiff yellow mottled light grey silty sandy CLAY. ... poor recovery from 2.00m to 3.00mbgl. ... becoming light grey from 2.50mbgl.	1.50 1.60 1.70 1.80 1.90 2.00 2.10 2.20 2.30 2.40 2.50 2.60 2.70 2.80 2.90 3.00		3.00 (1.60)				5	7	8	10	10	12	40	
Borehole terminated at 3.00mbgl due to refusal.	3.10 3.20 3.30 3.40 3.50 3.60 3.70 3.80 3.90 4.00 4.10 4.20 4.30 4.40 4.50 4.60 4.70 4.80 4.90 5.00						10	11	13	14	14	9	50	

Casing record			Chiselling records									
Date	Diameter (mm)	Depth (m)	Time	From (m)	To (m)	Date	Water strike	Water level (after 20mins)	Flow	Standing level	Remarks	
Remarks: 1. Gas/groundwater monitoring standpipe installed to 3.00m (GL to 1.50m plain/bentonite, 1.50m to 3.00m slotted/gravel). 2. No groundwater encountered. 3. Borehole remained stable throughout drilling.									Logged By: PD	Checked By: PD	Date: 02.12.21	Scale: NTS

			Web: www.erda-ltd.co.uk Email: p.devitt@erda-ltd.co.uk Mob: 07531 051197			Date: 1st December 2021 Ground Level: Orientation: Coordinates: Plant: Window Sample Rig Dimensions:										BOREHOLE NO. WS03	
CLIENT MATtest Midlands Ltd																Sheet No. 1 of 1	
SITE LOCATION Whiston Juniors, Whiston																Job No. EAL. 167.21	
Description of Strata	Reduced level (m)	Legend	Depth (Thickness) m	SAMPLES/TESTS			SPT Results						N Value	Installation	Test Sample Details		
				Depth	No	Type	Sounding		Test Drive								
MADE GROUND comprising black sandy gravel. Gravel is fine to coarse sub-angular to angular brick, tarmac and quartzite.	0.10 0.20		0.20 (0.20)														
MADE GROUND comprising grey mottled brown sandy gravelly clay. Gravel is fine to coarse sub-angular to angular mudstone and coal.	0.30 0.40 0.50 0.60 0.70 0.80 0.90		0.90 (0.70)														
Stiff yellow mottled light grey silty sandy CLAY.	1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00		2.00 (1.10)				3	4	4	5	5	6	20				
Borehole terminated at 2.00mbgl due to refusal.	2.10 2.20 2.30 2.40 2.50 2.60 2.70 2.80 2.90 3.00 3.10 3.20 3.30 3.40 3.50 3.60 3.70 3.80 3.90 4.00 4.10 4.20 4.30 4.40 4.50 4.60 4.70 4.80 4.90 5.00						9	10	12	13	15	10	50				

Casing record			Chiselling records									
Date	Diameter (mm)	Depth (m)	Time	From (m)	To (m)	Date	Water strike	Water level (after 20mins)	Flow	Standing level	Remarks	
Remarks: 1. Gas/groundwater monitoring standpipe installed to 2.00m (GL to 1.00m plain/bentonite, 1.00m to 2.00m slotted/gravel). 2. No groundwater encountered. 3. Borehole remained stable throughout drilling.									Logged By: PD	Checked By: PD	Date: 02.12.21	Scale: NTS

			Web: www.erda-ltd.co.uk Email: p.devitt@erda-ltd.co.uk Mob: 07531 051197			Date: 1st December 2021 Ground Level: Orientation: Coordinates: Plant: Window Sample Rig Dimensions:			BOREHOLE NO. WS04 Sheet No. 1 of 1 Job No. EAL. 167.21					
CLIENT MATtest Midlands Ltd														
SITE LOCATION Whiston Juniors, Whiston														
Description of Strata	Reduced level (m)	Legend	Depth (Thickness) m	SAMPLES/TESTS			SPT Results					N Value	Installation	Test Sample Details
				Depth	No	Type	Seating	Test Drive						
MADE GROUND comprising black sandy gravel. Gravel is fine to coarse sub-angular to angular brick, tarmac and quartzite.	0.10 0.20 0.30 0.40		0.40 (0.40)											
MADE GROUND comprising grey mottled brown sandy gravelly clay. Gravel is fine to coarse sub-angular to angular mudstone and coal.	0.50 0.60 0.70 0.80 0.90 1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00		2.00 (1.60)				4	5	5	6	6	7	24	
Borehole terminated at 2.00mbgl due to refusal.	2.10 2.20 2.30 2.40 2.50 2.60 2.70 2.80 2.90 3.00 3.10 3.20 3.30 3.40 3.50 3.60 3.70 3.80 3.90 4.00 4.10 4.20 4.30 4.40 4.50 4.60 4.70 4.80 4.90 5.00						10	11	11	13	16	10	50	

Casing record			Chiselling records									
Date	Diameter (mm)	Depth (m)	Time	From (m)	To (m)	Date	Water strike	Water level (after 20mins)	Flow	Standing level	Remarks	
Remarks: 1. Gas/groundwater monitoring standpipe installed to 2.00m (GL to 1.00m plain/bentonite, 1.00m to 2.00m slotted/gravel). 2. No groundwater encountered. 3. Borehole remained stable throughout drilling.									Logged By: PD	Checked By: PD	Date: 02.12.21	Scale: NTS

			Web: www.erda-ltd.co.uk Email: p.devitt@erda-ltd.co.uk Mob: 07531 051197			Date: 1st December 2021 Ground Level: Orientation: Coordinates: Plant: Window Sample Rig Dimensions:										BOREHOLE NO. WS05	
CLIENT MATtest Midlands Ltd													Sheet No. 1 of 1				
SITE LOCATION Whiston Juniors, Whiston													Job No. EAL. 167.21				
Description of Strata	Reduced level (m)	Legend	Depth (Thickness) m	SAMPLES/TESTS			SPT Results						N Value	Installation	Test Sample Details		
				Depth	No	Type	Casing 75 mm	Test Drive 75 mm	Test Drive 75 mm	Test Drive 75 mm	Test Drive 75 mm	Test Drive 75 mm					
MADE GROUND comprising tarmac hardstanding.	0.10		0.10 (0.10)														
MADE GROUND comprising brick hardstanding.	0.20		0.20 (0.10)														
MADE GROUND comprising black gravelly sand. Gravel is fine to coarse sub-angular to angular mudstone, shale and brick.	0.30 0.40 0.50 0.60 0.70 0.80 0.90 1.00 1.10 1.20 1.30 1.40 1.50 1.60		1.60 (1.40)				5	6	6	7	7	8	28				
Very stiff light yellow mottled light grey silty sandy CLAY.	1.70 1.80 1.90 2.00		2.00 (0.40)				10	12	13	13	15	9	50				
Borehole terminated at 2.00mbgl due to refusal.	2.10 2.20 2.30 2.40 2.50 2.60 2.70 2.80 2.90 3.00 3.10 3.20 3.30 3.40 3.50 3.60 3.70 3.80 3.90 4.00 4.10 4.20 4.30 4.40 4.50 4.60 4.70 4.80 4.90 5.00																

Casing record			Chiselling records									
Date	Diameter (mm)	Depth (m)	Time	From (m)	To (m)	Date	Water strike	Water level (after 20mins)	Flow	Standing level	Remarks	
Remarks: 1. Gas/groundwater monitoring standpipe installed to 1.00m (GL to 0.50m plain/bentonite, 0.50m to 1.00m slotted/gravel). 2. No groundwater encountered. 3. Borehole remained stable throughout drilling.									Logged By: PD	Checked By: PD	Date: 02.12.21	Scale: NTS