

Johnson Poole & Bloomer Consultants

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Unit 8
Shaw House
Two Woods Lane
Brierley Hill
DY5 1TA
For the attention of Mr. David Pacheco

Report No: C7605
Issue No 01

LABORATORY TEST REPORT

Project Name	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE		
Project Number	C7605	Date samples received	
Your Ref		Date written instructions received	07/03/2022
Purchase Order	20220222	Date testing commenced	05/04/2022
Please find enclosed the results as summarised below			
Item No	Test Quantity	Description	ISO 17025 Accredited
10.05	18	Insitu CBR	Yes
<p>Remarks :</p> <p>Issued by : J Hopkins Date of Issue : 08/04/2022</p> <p>Approved Signatories : <i>J.Hopkins</i> 08/04/2022</p> <p>J.Hopkins (Laboratory Coordinator), M D Brown (Senior Quality Manager), R Norris (Supervisor)</p> <p>Key to symbols used in this report S/C : Testing was sub-contracted</p> <p>Unless we are notified to the contrary, samples will be disposed after a period of one month from this date. The results reported relate to samples received in the laboratory only. All results contained in this report are provisional unless signed by an approved signatory. This report should not be reproduced except in full without the written approval of the laboratory. Under multisite accreditation the testing contained in this report may have been performed at another Terra Tek laboratory. Only those results indicated in this report are UKAS accredited and any opinions or interpretations expressed are outside the scope of UKAS accreditation.</p> <p>Feedback on the this report may be left via our website terratek.co.uk/feedback</p>			



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www.terratek.co.uk

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Offices in Airdrie, Birmingham, Belfast and Aston Clinton



Site Investigation & Laboratory Services

Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE	Contract No	C7605
Client	Johnson Poole & Bloomer Consultants	Test No.	Test 1 CBR 08
Engineer	Johnson Poole & Bloomer Consultants	Date	05/04/2022
		Depth (m)	0.50

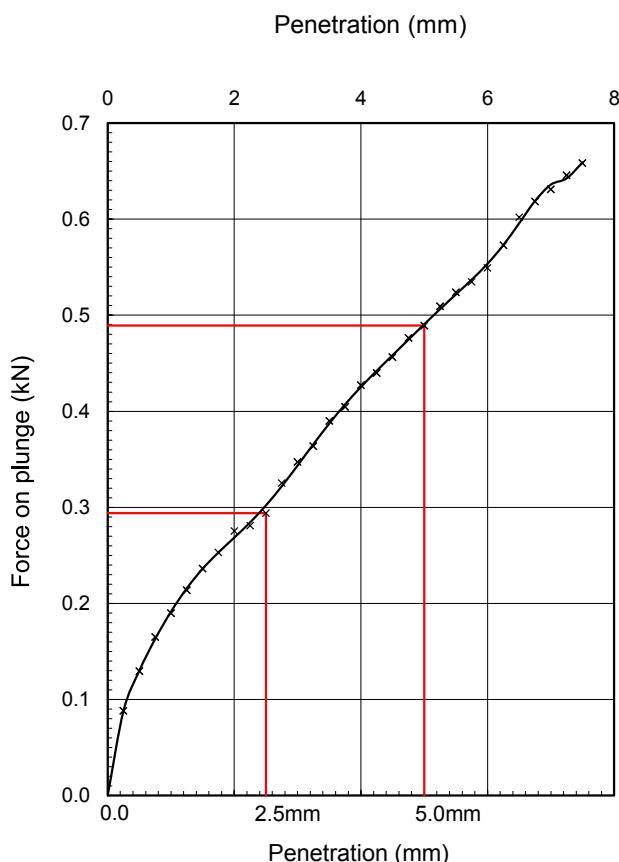
Description: Dark olive brown slightly sandy CLAY.

Test Conditions:

Surcharge 4 kg Equivalent 1 kPa

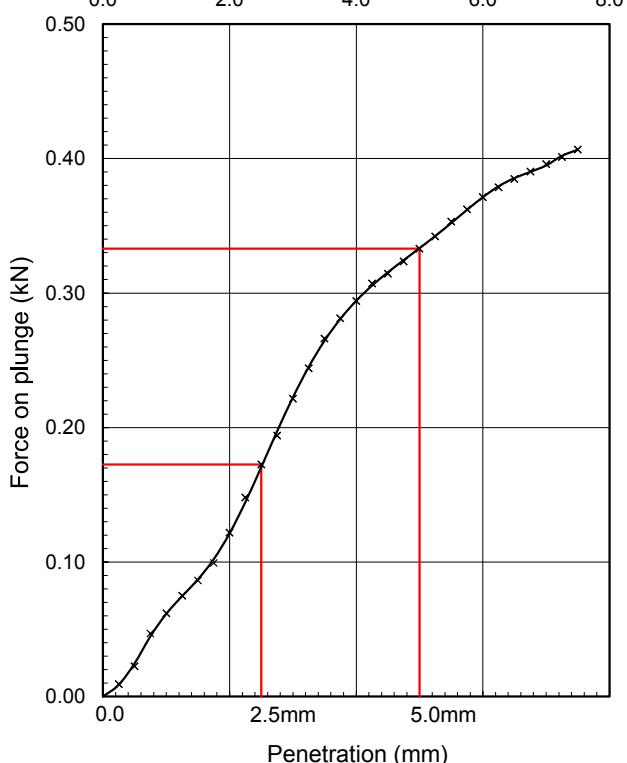
Moisture content beneath plunger: 28 %

Note: No particles larger than 20mm found beneath the plunger

CBR Value: 2.4%

Originator	Checked & Approved
HL	08/04/2022

IN-SITU CALIFORNIA BEARING RATIO
BS1377 : Part 9 : 1990 Clause 4.3

 <p>Site BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE</p> <p>Client Johnson Poole & Bloomer Consultants</p> <p>Engineer Johnson Poole & Bloomer Consultants</p>	<p>Contract No C7605</p> <p>Test No. Test 10 CBR 11</p> <p>Date 05/04/2022</p> <p>Depth (m) 0.85</p>																																	
<p>Description: Brown slightly sandy CLAY.</p> <p>Test Conditions:</p> <p>Surcharge 4 kg Equivalent 1 kPa</p> <p>Moisture content beneath plunger: 30 %</p> <p>Note: No particles larger than 20mm found beneath the plunger</p>																																		
<p style="text-align: center;">CBR Value: 1.7%</p> <p style="text-align: center;">Penetration (mm)</p>  <table border="1"> <caption>Data points from CBR test graph</caption> <thead> <tr> <th>Penetration (mm)</th> <th>Force on plunger (kN)</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0.00</td></tr> <tr><td>0.5</td><td>0.05</td></tr> <tr><td>1.0</td><td>0.10</td></tr> <tr><td>1.5</td><td>0.15</td></tr> <tr><td>2.0</td><td>0.20</td></tr> <tr><td>2.5</td><td>0.25</td></tr> <tr><td>3.0</td><td>0.30</td></tr> <tr><td>3.5</td><td>0.35</td></tr> <tr><td>4.0</td><td>0.38</td></tr> <tr><td>4.5</td><td>0.40</td></tr> <tr><td>5.0</td><td>0.42</td></tr> <tr><td>5.5</td><td>0.44</td></tr> <tr><td>6.0</td><td>0.46</td></tr> <tr><td>6.5</td><td>0.48</td></tr> <tr><td>7.0</td><td>0.50</td></tr> </tbody> </table>			Penetration (mm)	Force on plunger (kN)	0.0	0.00	0.5	0.05	1.0	0.10	1.5	0.15	2.0	0.20	2.5	0.25	3.0	0.30	3.5	0.35	4.0	0.38	4.5	0.40	5.0	0.42	5.5	0.44	6.0	0.46	6.5	0.48	7.0	0.50
Penetration (mm)	Force on plunger (kN)																																	
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Originator	Checked & Approved	<p>IN-SITU CALIFORNIA BEARING RATIO BS1377 : Part 9 : 1990 Clause 4.3</p> <p></p>																																
	08/04/2022	Sheet 1 of 1																																



Site Investigation & Laboratory Services

Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE	Contract No	C7605
Client	Johnson Poole & Bloomer Consultants	Test No.	Test 11 CBR 16
Engineer	Johnson Poole & Bloomer Consultants	Date	05/04/2022
		Depth (m)	0.50

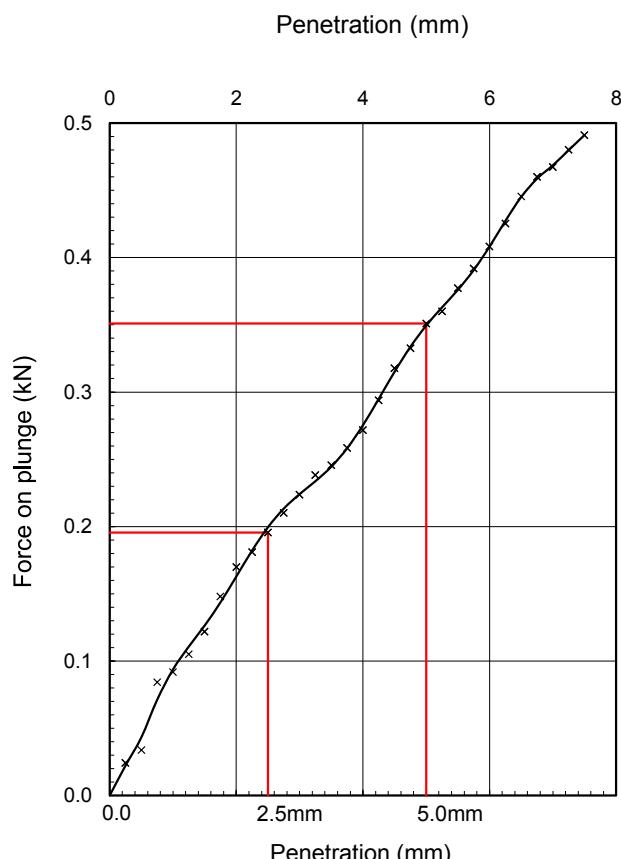
Description: Brown slightly sandy CLAY.

Test Conditions:

Surcharge 4 kg Equivalent 1 kPa

Moisture content beneath plunger: 29 %

Note: No particles larger than 20mm found beneath the plunger

CBR Value: 1.8%

Originator	Checked & Approved
HL	08/04/2022

IN-SITU CALIFORNIA BEARING RATIO
BS1377 : Part 9 : 1990 Clause 4.3

TERRA TEK Site Investigation & Laboratory Services	Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE	Contract No	C7605
	Client	Johnson Poole & Bloomer Consultants	Test No.	Test 12 CBR 20
	Engineer	Johnson Poole & Bloomer Consultants	Date	05/04/2022
			Depth (m)	0.45

Description: Brown slightly sandy CLAY.

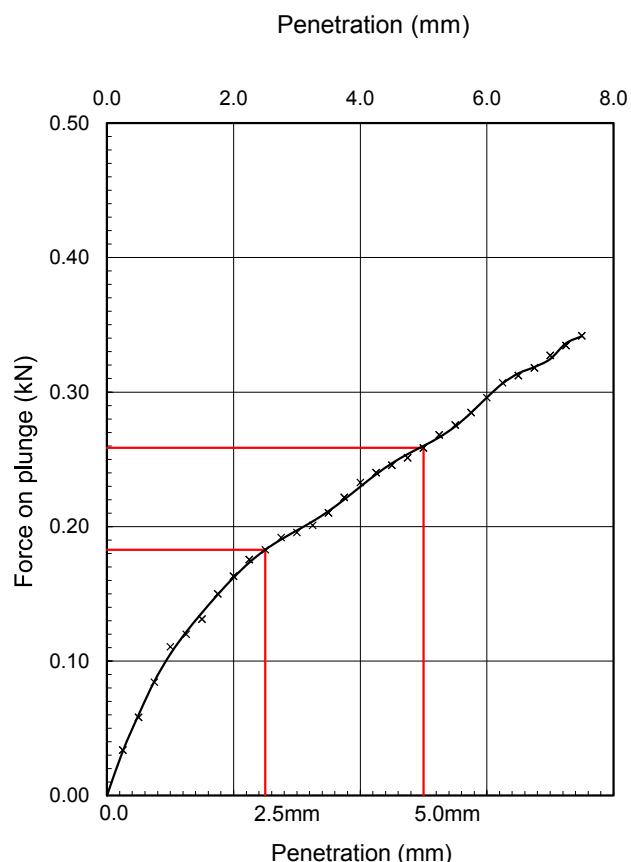
Test Conditions:

Surcharge 4 kg Equivalent 1 kPa

Moisture content beneath plunger: 31 %

Note: No particles larger than 20mm found beneath the plunger

CBR Value: 1.4%



Originator	Checked & Approved
HL	<i>[Signature]</i> 08/04/2022

TERRA TEK Site Investigation & Laboratory Services	Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE	Contract No	C7605	
	Client	Johnson Poole & Bloomer Consultants	Test No.	Test 13 CBR 2	
	Engineer	Johnson Poole & Bloomer Consultants	Date	05/04/2022	
			Depth (m)	0.50	
<p>Description: Brown mottled dark brown slightly gravelly slightly sandy CLAY. Gravel is fine.</p> <p>Test Conditions: Surcharge 4 kg Equivalent 1 kPa Moisture content beneath plunger: 22 %</p> <p>Note: No particles larger than 20mm found beneath the plunger</p>					
<p style="text-align: center;">CBR Value: 2.8%</p> <p style="text-align: center;">Penetration (mm)</p> <p style="text-align: center;">Force on plunger (kN)</p> <p style="text-align: center;">Penetration (mm)</p>					
Originator	Checked & Approved	<p style="text-align: center;">IN-SITU CALIFORNIA BEARING RATIO BS1377 : Part 9 : 1990 Clause 4.3</p>			
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Site Investigation & Laboratory Services

Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE		Contract No	C7605
Client	Johnson Poole & Bloomer Consultants		Test No.	Test 14 CBR 1
Engineer	Johnson Poole & Bloomer Consultants		Date	05/04/2022
			Depth (m)	0.50

Description: Brown slightly gravelly slightly sandy CLAY. Gravel is fine to medium.

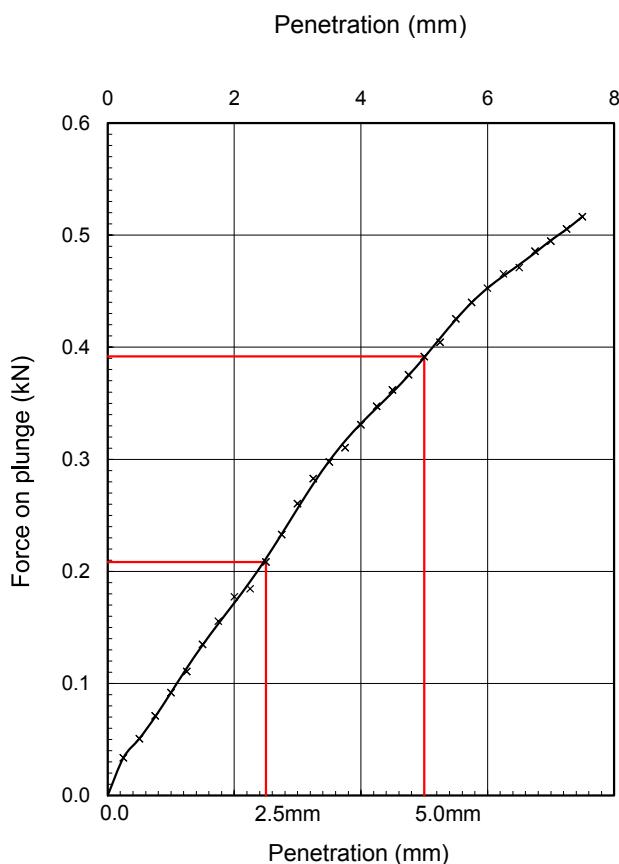
Test Conditions:

Surcharge 4 kg Equivalent 1 kPa

Moisture content beneath plunger: 24 %

Note: No particles larger than 20mm found beneath the plunger

CBR Value: 2.0%



Originator	Checked & Approved
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	Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE	Contract No	C7605
	Client	Johnson Poole & Bloomer Consultants	Test No.	Test 15 CBR 4
	Engineer	Johnson Poole & Bloomer Consultants	Date	06/04/2022
			Depth (m)	0.50

Description: Dark olive slightly sandy CLAY.

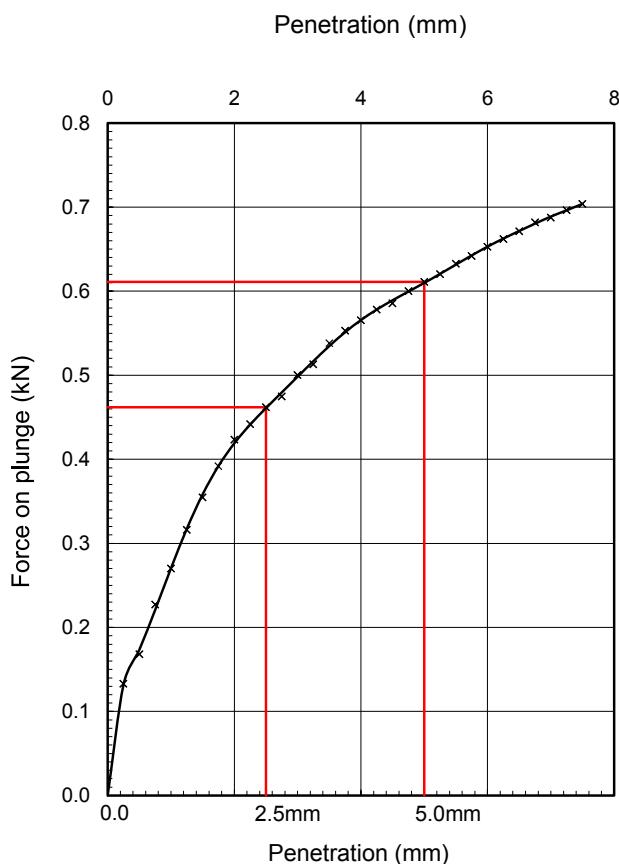
Test Conditions:

Surcharge 4 kg Equivalent 1 kPa

Moisture content beneath plunger: 22 %

Note: No particles larger than 20mm found beneath the plunger

CBR Value: 3.5%



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HL	08/04/2022		

 <p>Site Investigation & Laboratory Services</p>	Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE	Contract No	C7605
	Client	Johnson Poole & Bloomer Consultants	Test No.	Test 16 CBR 05
	Engineer	Johnson Poole & Bloomer Consultants	Date	06/04/2022
			Depth (m)	0.50

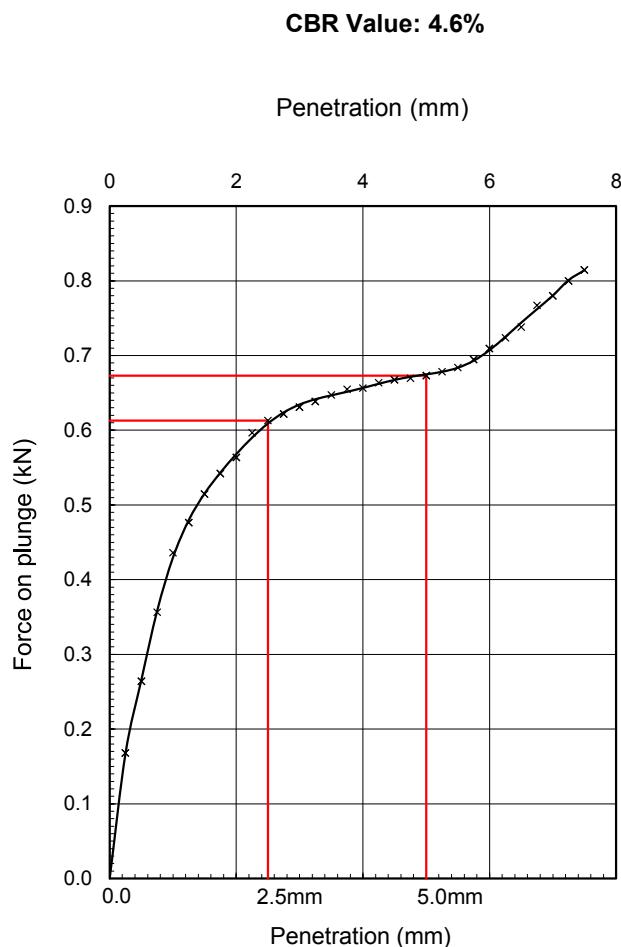
Description: Brown slightly gravelly slightly sandy CLAY. Gravel is fine to medium.

Test Conditions:

Surcharge 4 kg Equivalent 1 kPa

Moisture content beneath plunger: 20 %

Note: No particles larger than 20mm found beneath the plunger



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HL	08/04/2022		

TERRA TEK Site Investigation & Laboratory Services	Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE	Contract No	C7605																																																						
	Client	Johnson Poole & Bloomer Consultants	Test No.	Test 17 CBR 13																																																						
	Engineer	Johnson Poole & Bloomer Consultants	Date	06/04/2022																																																						
			Depth (m)	0.50																																																						
<p>Description: Brown slightly gravelly slightly sandy CLAY. Gravel is fine to medium.</p> <p>Test Conditions: Surcharge 4 kg Equivalent 1 kPa Moisture content beneath plunger: 21 %</p> <p>Note: No particles larger than 20mm found beneath the plunger</p>																																																										
<p style="text-align: center;">CBR Value: 3.0%</p> <p style="text-align: center;">Penetration (mm)</p> <p style="text-align: center;">Force on plunger (kN)</p> <p style="text-align: center;">Penetration (mm)</p> <table border="1"> <caption>Data points estimated from the CBR graph</caption> <thead> <tr> <th>Penetration (mm)</th> <th>Force on plunger (kN)</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0.08</td></tr> <tr><td>0.2</td><td>0.15</td></tr> <tr><td>0.4</td><td>0.20</td></tr> <tr><td>0.6</td><td>0.25</td></tr> <tr><td>0.8</td><td>0.30</td></tr> <tr><td>1.0</td><td>0.35</td></tr> <tr><td>1.2</td><td>0.40</td></tr> <tr><td>1.4</td><td>0.45</td></tr> <tr><td>1.6</td><td>0.50</td></tr> <tr><td>1.8</td><td>0.55</td></tr> <tr><td>2.0</td><td>0.60</td></tr> <tr><td>2.2</td><td>0.65</td></tr> <tr><td>2.4</td><td>0.70</td></tr> <tr><td>2.6</td><td>0.75</td></tr> <tr><td>2.8</td><td>0.80</td></tr> <tr><td>3.0</td><td>0.85</td></tr> <tr><td>3.2</td><td>0.90</td></tr> <tr><td>3.4</td><td>0.95</td></tr> <tr><td>3.6</td><td>0.98</td></tr> <tr><td>3.8</td><td>0.99</td></tr> <tr><td>4.0</td><td>0.995</td></tr> <tr><td>4.2</td><td>0.998</td></tr> <tr><td>4.4</td><td>0.999</td></tr> <tr><td>4.6</td><td>0.9995</td></tr> <tr><td>4.8</td><td>0.9998</td></tr> <tr><td>5.0</td><td>1.00</td></tr> </tbody> </table> <p style="text-align: center;">Penetration (mm)</p>					Penetration (mm)	Force on plunger (kN)	0.0	0.08	0.2	0.15	0.4	0.20	0.6	0.25	0.8	0.30	1.0	0.35	1.2	0.40	1.4	0.45	1.6	0.50	1.8	0.55	2.0	0.60	2.2	0.65	2.4	0.70	2.6	0.75	2.8	0.80	3.0	0.85	3.2	0.90	3.4	0.95	3.6	0.98	3.8	0.99	4.0	0.995	4.2	0.998	4.4	0.999	4.6	0.9995	4.8	0.9998	5.0	1.00
Penetration (mm)	Force on plunger (kN)																																																									
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TERRA TEK Site Investigation & Laboratory Services	Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE	Contract No	C7605																																			
	Client	Johnson Poole & Bloomer Consultants	Test No.	Test 18 CBR 15																																			
	Engineer	Johnson Poole & Bloomer Consultants	Date	06/04/2022																																			
			Depth (m)	0.45																																			
<p>Description: Brown slightly gravelly slightly sandy CLAY. Gravel is fine.</p> <p>Test Conditions: Surcharge 4 kg Equivalent 1 kPa Moisture content beneath plunger: 32 %</p> <p>Note: No particles larger than 20mm found beneath the plunger</p>																																							
<p style="text-align: center;">CBR Value: 2.9%</p> <p style="text-align: center;">Penetration (mm)</p> <table border="1"> <caption>Estimated data points from the CBR test graph</caption> <thead> <tr> <th>Penetration (mm)</th> <th>Force on plunger (kN)</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0.00</td></tr> <tr><td>0.2</td><td>0.10</td></tr> <tr><td>0.5</td><td>0.15</td></tr> <tr><td>1.0</td><td>0.20</td></tr> <tr><td>1.5</td><td>0.25</td></tr> <tr><td>2.0</td><td>0.30</td></tr> <tr><td>2.5</td><td>0.35</td></tr> <tr><td>3.0</td><td>0.40</td></tr> <tr><td>3.5</td><td>0.45</td></tr> <tr><td>4.0</td><td>0.50</td></tr> <tr><td>4.5</td><td>0.55</td></tr> <tr><td>5.0</td><td>0.60</td></tr> <tr><td>5.5</td><td>0.65</td></tr> <tr><td>6.0</td><td>0.70</td></tr> <tr><td>6.5</td><td>0.75</td></tr> <tr><td>7.0</td><td>0.78</td></tr> <tr><td>7.5</td><td>0.80</td></tr> </tbody> </table>				Penetration (mm)	Force on plunger (kN)	0.0	0.00	0.2	0.10	0.5	0.15	1.0	0.20	1.5	0.25	2.0	0.30	2.5	0.35	3.0	0.40	3.5	0.45	4.0	0.50	4.5	0.55	5.0	0.60	5.5	0.65	6.0	0.70	6.5	0.75	7.0	0.78	7.5	0.80
Penetration (mm)	Force on plunger (kN)																																						
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Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE
Client	Johnson Poole & Bloomer Consultants
Engineer	Johnson Poole & Bloomer Consultants

Contract No	C7605
Test No.	Test 2 CBR 07
Date	05/04/2022
Depth (m)	0.50

Description: Brown slightly sandy CLAY.

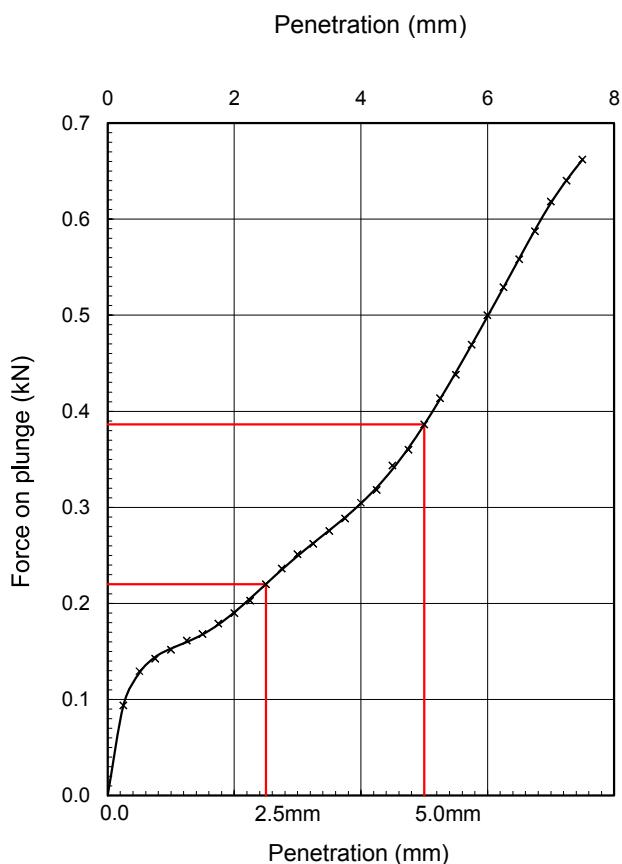
Test Conditions:

Surcharge 4 kg Equivalent 1 kPa

Moisture content beneath plunger: 15 %

Note: No particles larger than 20mm found beneath the plunger

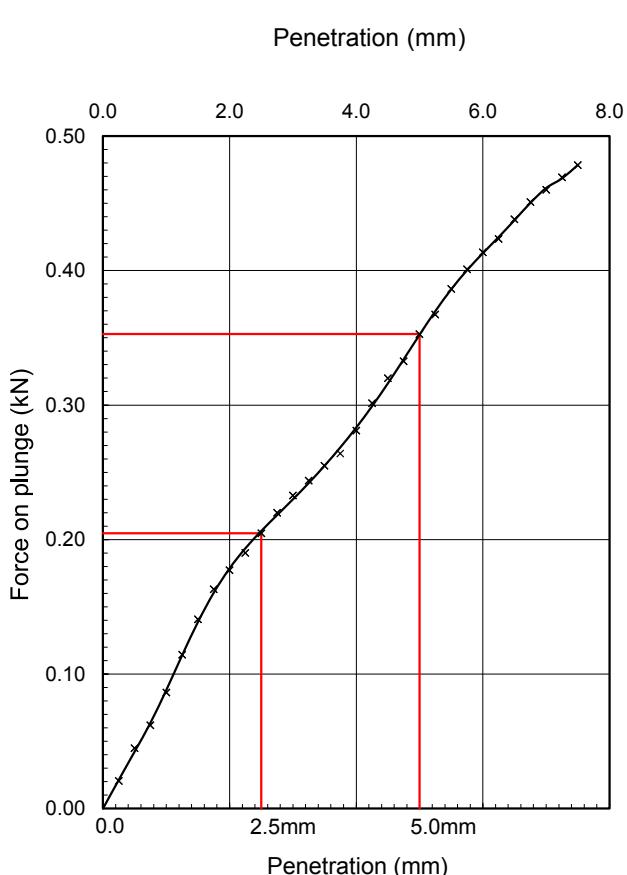
CBR Value: 1.9%



Originator	Checked & Approved
HL	08/04/2022

IN-SITU CALIFORNIA BEARING RATIO
BS1377 : Part 9 : 1990 Clause 4.3



TERRA TEK Site Investigation & Laboratory Services	Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE	Contract No	C7605
	Client	Johnson Poole & Bloomer Consultants	Test No.	Test 3 CBR 06
	Engineer	Johnson Poole & Bloomer Consultants	Date	05/04/2022
Depth (m) 0.55				
Description: Dark olive slightly sandy CLAY.				
Test Conditions: Surcharge 4 kg Equivalent 1 kPa Moisture content beneath plunger: 27 %				
Note: No particles larger than 20mm found beneath the plunger				
CBR Value: 1.8%				
				
IN-SITU CALIFORNIA BEARING RATIO BS1377 : Part 9 : 1990 Clause 4.3				
Originator	Checked & Approved			
HL	08/04/2022			
 Sheet 1 of 1				

TERRA TEK Site Investigation & Laboratory Services	Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE	Contract No	C7605
	Client	Johnson Poole & Bloomer Consultants	Test No.	Test 4 CBR 10
	Engineer	Johnson Poole & Bloomer Consultants	Date	05/04/2022
			Depth (m)	0.45

Description: Brown slightly sandy CLAY.

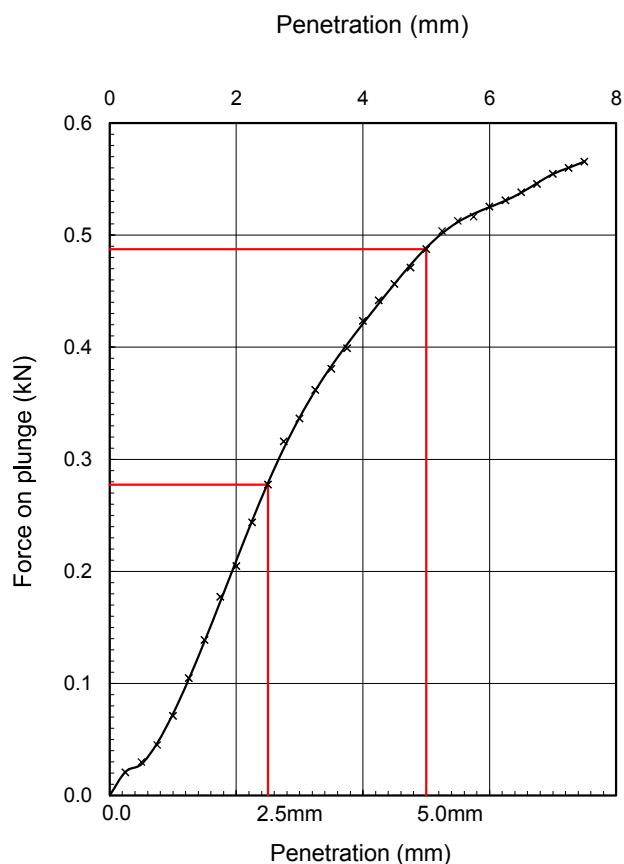
Test Conditions:

Surcharge 4 kg Equivalent 1 kPa

Moisture content beneath plunger: 32 %

Note: No particles larger than 20mm found beneath the plunger

CBR Value: 2.4%



Originator	Checked & Approved	IN-SITU CALIFORNIA BEARING RATIO BS1377 : Part 9 : 1990 Clause 4.3	
HL	08/04/2022		

TERRA TEK Site Investigation & Laboratory Services	Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE	Contract No	C7605
	Client	Johnson Poole & Bloomer Consultants	Test No.	Test 5 CBR 12
	Engineer	Johnson Poole & Bloomer Consultants	Date	05/04/2022
			Depth (m)	0.50

Description: Brown slightly sandy CLAY.

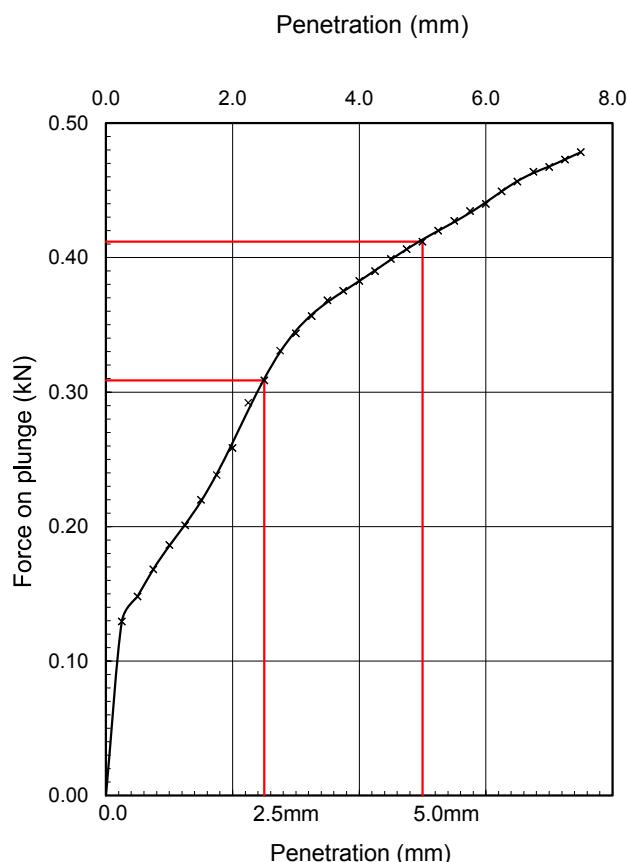
Test Conditions:

Surcharge 4 kg Equivalent 1 kPa

Moisture content beneath plunger: 32 %

Note: No particles larger than 20mm found beneath the plunger

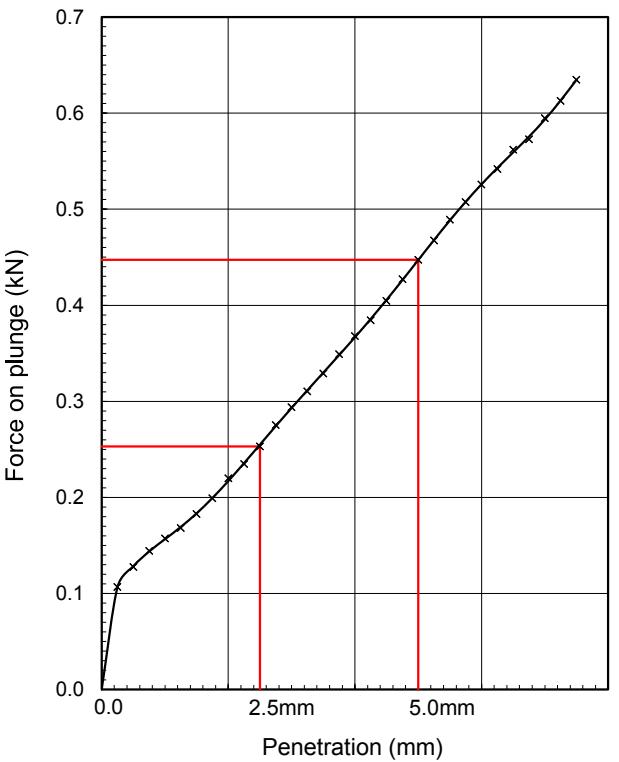
CBR Value: 2.3%



Originator	Checked & Approved
HL	08/04/2022

TERRA TEK Site Investigation & Laboratory Services	Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE	Contract No	C7605																																				
	Client	Johnson Poole & Bloomer Consultants	Test No.	Test 6 CBR 14																																				
	Engineer	Johnson Poole & Bloomer Consultants	Date	05/04/2022																																				
Depth (m) 0.50																																								
Description: Dark brown slightly gravelly slightly sandy CLAY. Gravel is fine. Test Conditions: Surcharge 4 kg Equivalent 1 kPa Moisture content beneath plunger: 36 % Note: No particles larger than 20mm found beneath the plunger																																								
CBR Value: 1.2%																																								
<p style="text-align: center;">Penetration (mm)</p> <table border="1"> <caption>Estimated data points from the CBR test graph</caption> <thead> <tr> <th>Penetration (mm)</th> <th>Force on plunge (kN)</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0.05</td></tr> <tr><td>0.5</td><td>0.10</td></tr> <tr><td>1.0</td><td>0.15</td></tr> <tr><td>1.5</td><td>0.18</td></tr> <tr><td>2.0</td><td>0.20</td></tr> <tr><td>2.5</td><td>0.22</td></tr> <tr><td>3.0</td><td>0.24</td></tr> <tr><td>3.5</td><td>0.26</td></tr> <tr><td>4.0</td><td>0.28</td></tr> <tr><td>4.5</td><td>0.30</td></tr> <tr><td>5.0</td><td>0.32</td></tr> <tr><td>5.5</td><td>0.34</td></tr> <tr><td>6.0</td><td>0.36</td></tr> <tr><td>6.5</td><td>0.38</td></tr> <tr><td>7.0</td><td>0.40</td></tr> <tr><td>7.5</td><td>0.42</td></tr> <tr><td>8.0</td><td>0.44</td></tr> </tbody> </table>					Penetration (mm)	Force on plunge (kN)	0.0	0.05	0.5	0.10	1.0	0.15	1.5	0.18	2.0	0.20	2.5	0.22	3.0	0.24	3.5	0.26	4.0	0.28	4.5	0.30	5.0	0.32	5.5	0.34	6.0	0.36	6.5	0.38	7.0	0.40	7.5	0.42	8.0	0.44
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 <p>Site Investigation & Laboratory Services</p>	Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE	Contract No	C7605
	Client	Johnson Poole & Bloomer Consultants	Test No.	Test 7 CBR 17
	Engineer	Johnson Poole & Bloomer Consultants	Date	05/04/2022
			Depth (m)	0.55
<p>Description: Dark olive brown slightly sandy CLAY.</p> <p>Test Conditions: Surcharge 4 kg Equivalent 1 kPa Moisture content beneath plunger: 22 %</p> <p>Note: No particles larger than 20mm found beneath the plunger</p>				
<p style="text-align: center;">CBR Value: 3.2%</p> <p style="text-align: center;">Penetration (mm)</p> <p style="text-align: center;">Force on plunger (kN)</p> <p style="text-align: center;">Penetration (mm)</p>				
Originator	Checked & Approved	<p style="text-align: center;">IN-SITU CALIFORNIA BEARING RATIO</p> <p style="text-align: center;">BS1377 : Part 9 : 1990 Clause 4.3</p>		
HL	08/04/2022			

TERRA TEK Site Investigation & Laboratory Services	Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE	Contract No	C7605	
	Client	Johnson Poole & Bloomer Consultants	Test No.	Test 8 CBR 19	
	Engineer	Johnson Poole & Bloomer Consultants	Date	05/04/2022	
			Depth (m)	0.50	
<p>Description: Brown slightly sandy CLAY.</p> <p>Test Conditions: Surcharge 4 kg Equivalent 1 kPa Moisture content beneath plunger: 24 %</p> <p>Note: No particles larger than 20mm found beneath the plunger</p>					
<p style="text-align: center;">CBR Value: 2.2%</p> <p style="text-align: center;">Penetration (mm)</p>  <p style="text-align: center;">Force on plunger (kN)</p> <p style="text-align: center;">Penetration (mm)</p>					
Originator	Checked & Approved	<p style="text-align: center;">IN-SITU CALIFORNIA BEARING RATIO BS1377 : Part 9 : 1990 Clause 4.3</p>			T E
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Site Investigation & Laboratory Services

Site	BREAKSPEAR ROAD SOUTH, ICKENHAM, NEWYEARS GREEN, UXBRIDGE	Contract No	C7605
Client	Johnson Poole & Bloomer Consultants	Test No.	Test 9 CBR 18
Engineer	Johnson Poole & Bloomer Consultants	Date	05/04/2022
		Depth (m)	0.45

Description: Brown slightly sandy CLAY.

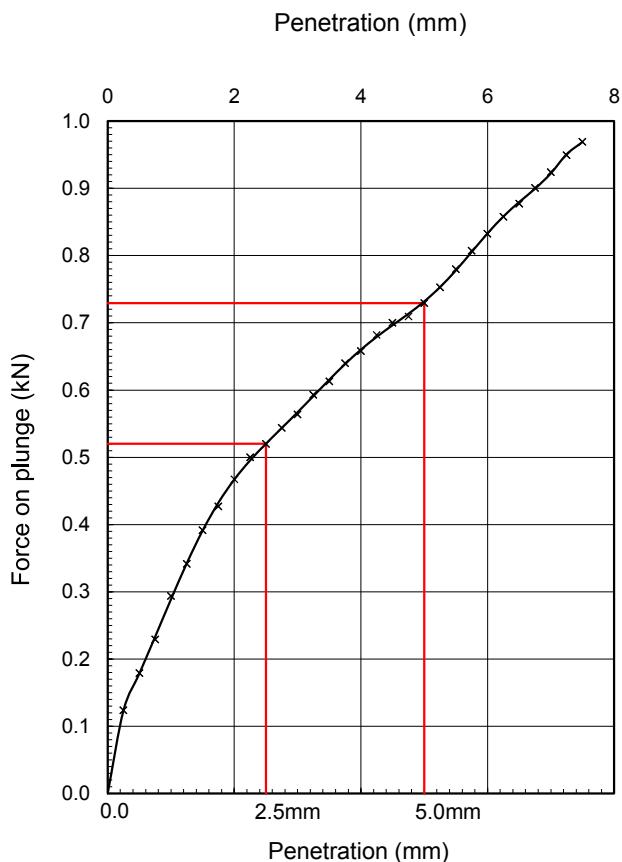
Test Conditions:

Surcharge 4 kg Equivalent 1 kPa

Moisture content beneath plunger: 26 %

Note: No particles larger than 20mm found beneath the plunger

CBR Value: 3.9%



Originator	Checked & Approved
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