

## **APPENDIX E**

*Results of Laboratory Geotechnical Analysis*

**TEST REPORT:**
**DETERMINATION OF THE PLASTICITY INDEX OF SOIL**

BS 1377:Part 2:1990 clause 5.4

REPORT NUMBER: C1079384 / 263565.2.1.1  
 SAMPLE NUMBER: 410520 CLIENT: Card Geotechnics Limited  
 CLIENT REF: WS01 ADDRESS: 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, GU7 1XW  
 DATE SAMPLED: 19/07/2023 SITE: CGK/00808 Charlville Lane  
 SAMPLED BY: Client SUPPLIER: Site Won, Site Won  
 DATE RECEIVED: 21/07/2023 MATERIAL: Brown Clay  
 DATE COMPLETED: 28/07/2023 LOCATION: WS01, 0.80, 1.00  
 TESTED BY: HS, JW PREPARATION METHOD: BS 1377:Part 1:2016 cl 8.3 & 8.4.3  
 TYPE OF SAMPLE: VARIATIONS: None  
 WITHIN ORIGINAL SAMPLE: N/A SAMPLING PLAN: Client Provided  
 ENVIRONMENTAL CONDITIONS:

**RESULTS:** Test Location: Harrietsham Lab

TEST DETAILS	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE: (BS 1377: Part 2:1990 clause 4.4 one point)	66%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE: (BS 1377: Part 2:1990 clause 5.3)	23%	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	43%		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	87%		
Sample History:	The material was tested in the natural state		

**Remarks:**

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 For and on behalf of CTS  
 Dan Gay - Laboratory Manager



 Approved Signatory  
 Report date 28-Jul-23


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TEST REPORT:	DETERMINATION OF THE MOISTURE CONTENT OF SOILS				
REPORT NUMBER:	BS 1377:Part 2:1990 clause 3.2 - oven drying method				
REPORT NUMBER:	C1079384 / 263565.1.1.1				
SAMPLE NUMBER:	See Below	CLIENT:	Card Geotechnics Limited		
CLIENT REF:	See Below	ADDRESS:	4 Godalming Business Centre , Woolsack Way , Godalming , Surrey , GU7 1XW		
DATE SAMPLED:	19/07/2023	SITE:	CGK/00808 Charville Lane		
SAMPLED BY:	Client	SUPPLIER:	Site Won		
DATE RECEIVED:	21/07/2023	SOURCE:	Site Won		
DATE COMPLETED:	24/07/2023	MATERIAL:	See Below		
TESTED BY:	JG, MW	LOCATION:	See Below		
TYPE OF SAMPLE:		PREPARATION METHOD:	BS 1377-1: 2016 clause 8		
SAMPLING PLAN:	Client Provided	METHOD OF SAMPLING:	Unknown		
ENVIRONMENTAL CONDITIONS:	Unknown	LOCATION AND ORIENTATION WITHIN SAMPLE:			

**TEST RESULT: Test Location: Harrietsham Lab**

SAMPLE NO.	CLIENT REF.	LOCATION OF TEST	MATERIAL DESCRIPTION	MOISTURE CONTENT (%)	LOWER LIMIT	UPPER LIMIT
410520	WS01	WS01, 0.80, 1.00	Brown Clay	31	NA	NA

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 Dan Gay - Laboratory Manager



Approved Signatory  
 Report date 24-Jul-23



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TEST REPORT:	DETERMINATION OF THE MOISTURE CONTENT OF SOILS				
REPORT NUMBER:	BS 1377:Part 2:1990 clause 3.2 - oven drying method C1079384 / 263565.3.1.1				
SAMPLE NUMBER:	See Below	CLIENT:	Card Geotechnics Limited		
CLIENT REF:	See Below	ADDRESS:	4 Godalming Business Centre , Woolsack Way , Godalming , Surrey , GU7 1XW		
DATE SAMPLED:	19/07/2023	SITE:	CGK/00808 Charville Lane		
SAMPLED BY:	Client	SUPPLIER:	Site Won		
DATE RECEIVED:	21/07/2023	SOURCE:	Site Won		
DATE COMPLETED:	24/07/2023	MATERIAL:	See Below		
TESTED BY:	JG, MW	LOCATION:	See Below		
TYPE OF SAMPLE:		PREPARATION METHOD:	BS 1377-1: 2016 clause 8		
SAMPLING PLAN:	Client Provided	METHOD OF SAMPLING:	Unknown		
ENVIRONMENTAL CONDITIONS:	Unknown	LOCATION AND ORIENTATION WITHIN SAMPLE:			

TEST RESULT: Test Location: Harrietsham Lab

SAMPLE NO.	CLIENT REF.	LOCATION OF TEST	MATERIAL DESCRIPTION	MOISTURE CONTENT (%)	LOWER LIMIT	UPPER LIMIT
410521	WS05	WS05, 1.20, 1.45	Brown Clay	26	NA	NA

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 Dan Gay - Laboratory Manager



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**TEST REPORT:**
**DETERMINATION OF THE PLASTICITY INDEX OF SOIL**

BS 1377:Part 2:1990 clause 5.4

REPORT NUMBER: C1079384 / 263565.4.1.1  
 SAMPLE NUMBER: 410521 CLIENT: Card Geotechnics Limited  
 CLIENT REF: WS05 ADDRESS: 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, GU7 1XW  
 DATE SAMPLED: 19/07/2023 SITE: CGK/00808 Charlville Lane  
 SAMPLED BY: Client SUPPLIER: Site Won, Site Won  
 DATE RECEIVED: 21/07/2023 MATERIAL: Brown Clay  
 DATE COMPLETED: 28/07/2023 LOCATION: WS05, 1.20, 1.45  
 TESTED BY: HS, JW PREPARATION METHOD: BS 1377:Part 1:2016 cl 8.3 & 8.4.3  
 TYPE OF SAMPLE: VARIATIONS: None  
 WITHIN ORIGINAL SAMPLE: N/A SAMPLING PLAN: Client Provided  
 ENVIRONMENTAL CONDITIONS:

**RESULTS:** Test Location: Harrietsham Lab

TEST DETAILS	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE: (BS 1377: Part 2:1990 clause 4.4 one point)	65%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE: (BS 1377: Part 2:1990 clause 5.3)	25%	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	40%		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	97%		
Sample History:	The material was tested in the natural state		

**Remarks:**

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 Dan Gay - Laboratory Manager



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 Report date 28-Jul-23


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**TEST REPORT:**
**DETERMINATION OF THE PLASTICITY INDEX OF SOIL**

BS 1377:Part 2:1990 clause 5.4

REPORT NUMBER: C1079384 / 263565.6.1.1  
 SAMPLE NUMBER: 410522 CLIENT: Card Geotechnics Limited  
 CLIENT REF: WS05 ADDRESS: 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, GU7 1XW  
 DATE SAMPLED: 19/07/2023 SITE: CGK/00808 Charlville Lane  
 SAMPLED BY: Client SUPPLIER: Site Won, Site Won  
 DATE RECEIVED: 21/07/2023 MATERIAL: Brown Clay  
 DATE COMPLETED: 08/08/2023 LOCATION: WS05, 2.00, 2.45  
 TESTED BY: JG, JW PREPARATION METHOD: BS 1377:Part 1:2016 cl 8.3 & 8.4.3  
 TYPE OF SAMPLE: VARIATIONS: None  
 WITHIN ORIGINAL SAMPLE: N/A SAMPLING PLAN: Client Provided  
 ENVIRONMENTAL CONDITIONS:

**RESULTS:** Test Location: Harrietsham Lab

TEST DETAILS	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE: (BS 1377: Part 2:1990 clause 4.4 one point)	66%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE: (BS 1377: Part 2:1990 clause 5.3)	24%	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	42%		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	97%		
Sample History:	The material was tested in the natural state		

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TEST REPORT:	DETERMINATION OF THE MOISTURE CONTENT OF SOILS				
REPORT NUMBER:	BS 1377:Part 2:1990 clause 3.2 - oven drying method				
SAMPLE NUMBER:	See Below	CLIENT:	Card Geotechnics Limited		
CLIENT REF:	See Below	ADDRESS:	4 Godalming Business Centre , Woolsack Way , Godalming , Surrey , GU7 1XW		
DATE SAMPLED:	19/07/2023	SITE:	CGK/00808 Charville Lane		
SAMPLED BY:	Client	SUPPLIER:	Site Won		
DATE RECEIVED:	21/07/2023	SOURCE:	Site Won		
DATE COMPLETED:	24/07/2023	MATERIAL:	See Below		
TESTED BY:	JG, MW	LOCATION:	See Below		
TYPE OF SAMPLE:	PREPARATION METHOD: BS 1377-1: 2016 clause 8				
SAMPLING PLAN:	Client Provided	METHOD OF SAMPLING:	Unknown		
ENVIRONMENTAL CONDITIONS:	Unknown	LOCATION AND ORIENTATION WITHIN SAMPLE:			

TEST RESULT: Test Location: Harrietsham Lab

SAMPLE NO.	CLIENT REF.	LOCATION OF TEST	MATERIAL DESCRIPTION	MOISTURE CONTENT (%)	LOWER LIMIT	UPPER LIMIT
410522	WS05	WS05, 2.00, 2.45	Brown Clay	27	NA	NA

Remarks:

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Dan Gay - Laboratory Manager



Approved Signatory  
Report date 24-Jul-23



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**TEST REPORT:**
**DETERMINATION OF THE PLASTICITY INDEX OF SOIL**

BS 1377:Part 2:1990 clause 5.4

REPORT NUMBER: C1079384 / 263565.8.1.1  
 SAMPLE NUMBER: 410523 CLIENT: Card Geotechnics Limited  
 CLIENT REF: WS05 ADDRESS: 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, GU7 1XW  
 DATE SAMPLED: 19/07/2023 SITE: CGK/00808 Charlville Lane  
 SAMPLED BY: Client SUPPLIER: Site Won, Site Won  
 DATE RECEIVED: 21/07/2023 MATERIAL: Brown Clay  
 DATE COMPLETED: 04/08/2023 LOCATION: WS05, 3.50, 4.00  
 TESTED BY: JG, AP PREPARATION METHOD: BS 1377:Part 1:2016 cl 8.3 & 8.4.3  
 TYPE OF SAMPLE: VARIATIONS: None  
 WITHIN ORIGINAL SAMPLE: N/A SAMPLING PLAN: Client Provided  
 ENVIRONMENTAL CONDITIONS:

**RESULTS:** Test Location: Harrietsham Lab

TEST DETAILS	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE: (BS 1377: Part 2:1990 clause 4.4 one point)	67%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE: (BS 1377: Part 2:1990 clause 5.3)	26%	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	41%		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	100%		
Sample History:	The material was tested in the natural state		

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 Dan Gay - Laboratory Manager



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 Report date 04-Aug-23


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TEST REPORT:	DETERMINATION OF THE MOISTURE CONTENT OF SOILS				
REPORT NUMBER:	BS 1377:Part 2:1990 clause 3.2 - oven drying method				
SAMPLE NUMBER:	See Below	CLIENT:	Card Geotechnics Limited		
CLIENT REF:	See Below	ADDRESS:	4 Godalming Business Centre , Woolsack Way , Godalming , Surrey , GU7 1XW		
DATE SAMPLED:	19/07/2023	SITE:	CGK/00808 Charville Lane		
SAMPLED BY:	Client	SUPPLIER:	Site Won		
DATE RECEIVED:	21/07/2023	SOURCE:	Site Won		
DATE COMPLETED:	24/07/2023	MATERIAL:	See Below		
TESTED BY:	JG, MW	LOCATION:	See Below		
TYPE OF SAMPLE:		PREPARATION METHOD:	BS 1377-1: 2016 clause 8		
SAMPLING PLAN:	Client Provided	METHOD OF SAMPLING:	Unknown		
ENVIRONMENTAL CONDITIONS:	Unknown	LOCATION AND ORIENTATION WITHIN SAMPLE:			

TEST RESULT: Test Location: Harrietsham Lab

SAMPLE NO.	CLIENT REF.	LOCATION OF TEST	MATERIAL DESCRIPTION	MOISTURE CONTENT (%)	LOWER LIMIT	UPPER LIMIT
410523	WS05	WS05, 3.50, 4.00	Brown Clay	28	NA	NA

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 Dan Gay - Laboratory Manager



Approved Signatory  
 Report date 24-Jul-23



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**TEST REPORT:**
**DETERMINATION OF THE PLASTICITY INDEX OF SOIL**

BS 1377:Part 2:1990 clause 5.4

REPORT NUMBER: C1079384 / 263565.10.1.1  
 SAMPLE NUMBER: 410524 CLIENT: Card Geotechnics Limited  
 CLIENT REF: WS07 ADDRESS: 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, GU7 1XW  
 DATE SAMPLED: 19/07/2023 SITE: CGK/00808 Charlville Lane  
 SAMPLED BY: Client SUPPLIER: Site Won, Site Won  
 DATE RECEIVED: 21/07/2023 MATERIAL: Brown Clay  
 DATE COMPLETED: 28/07/2023 LOCATION: WS07, 1.00, 2.00  
 TESTED BY: HS, JW PREPARATION METHOD: BS 1377:Part 1:2016 cl 8.3 & 8.4.3  
 TYPE OF SAMPLE: VARIATIONS: None  
 WITHIN ORIGINAL SAMPLE: N/A SAMPLING PLAN: Client Provided  
 ENVIRONMENTAL CONDITIONS:

**RESULTS:** Test Location: Harrietsham Lab

TEST DETAILS	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE: (BS 1377: Part 2:1990 clause 4.4 one point)	64%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE: (BS 1377: Part 2:1990 clause 5.3)	24%	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	40%		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	92%		
Sample History:	The material was tested in the natural state		

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 Dan Gay - Laboratory Manager



 Approved Signatory  
 Report date 28-Jul-23


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TEST REPORT:	DETERMINATION OF THE MOISTURE CONTENT OF SOILS				
REPORT NUMBER:	BS 1377:Part 2:1990 clause 3.2 - oven drying method				
SAMPLE NUMBER:	See Below	CLIENT:	Card Geotechnics Limited		
CLIENT REF:	See Below	ADDRESS:	4 Godalming Business Centre , Woolsack Way , Godalming , Surrey , GU7 1XW		
DATE SAMPLED:	19/07/2023	SITE:	CGK/00808 Charville Lane		
SAMPLED BY:	Client	SUPPLIER:	Site Won		
DATE RECEIVED:	21/07/2023	SOURCE:	Site Won		
DATE COMPLETED:	24/07/2023	MATERIAL:	See Below		
TESTED BY:	JG, MW	LOCATION:	See Below		
TYPE OF SAMPLE:	PREPARATION METHOD: BS 1377-1: 2016 clause 8				
SAMPLING PLAN:	Client Provided	METHOD OF SAMPLING:	Unknown		
ENVIRONMENTAL CONDITIONS:	Unknown	LOCATION AND ORIENTATION WITHIN SAMPLE:			

TEST RESULT: Test Location: Harrietsham Lab

SAMPLE NO.	CLIENT REF.	LOCATION OF TEST	MATERIAL DESCRIPTION	MOISTURE CONTENT (%)	LOWER LIMIT	UPPER LIMIT
410524	WS07	WS07, 1.00, 2.00	Brown Clay	22	NA	NA

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 Report date 24-Jul-23



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TEST REPORT:	DETERMINATION OF THE MOISTURE CONTENT OF SOILS				
REPORT NUMBER:	BS 1377:Part 2:1990 clause 3.2 - oven drying method				
REPORT NUMBER:	C1079384 / 263565.11.1.1				
SAMPLE NUMBER:	See Below	CLIENT:	Card Geotechnics Limited		
CLIENT REF:	See Below	ADDRESS:	4 Godalming Business Centre , Woolsack Way , Godalming , Surrey , GU7 1XW		
DATE SAMPLED:	19/07/2023	SITE:	CGK/00808 Charville Lane		
SAMPLED BY:	Client	SUPPLIER:	Site Won		
DATE RECEIVED:	21/07/2023	SOURCE:	Site Won		
DATE COMPLETED:	24/07/2023	MATERIAL:	See Below		
TESTED BY:	JG, MW	LOCATION:	See Below		
TYPE OF SAMPLE:		PREPARATION METHOD:	BS 1377-1: 2016 clause 8		
SAMPLING PLAN:	Client Provided	METHOD OF SAMPLING:	Unknown		
ENVIRONMENTAL CONDITIONS:	Unknown	LOCATION AND ORIENTATION WITHIN SAMPLE:			

**TEST RESULT: Test Location: Harrietsham Lab**

SAMPLE NO.	CLIENT REF.	LOCATION OF TEST	MATERIAL DESCRIPTION	MOISTURE CONTENT (%)	LOWER LIMIT	UPPER LIMIT
410525	WS07	WS07, 2.00, 2.45	Brown Clay	20	NA	NA

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**TEST REPORT:**
**DETERMINATION OF THE PLASTICITY INDEX OF SOIL**

BS 1377:Part 2:1990 clause 5.4

REPORT NUMBER: C1079384 / 263565.12.1.1  
 SAMPLE NUMBER: 410525 CLIENT: Card Geotechnics Limited  
 CLIENT REF: WS07 ADDRESS: 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, GU7 1XW  
 DATE SAMPLED: 19/07/2023 SITE: CGK/00808 Charlville Lane  
 SAMPLED BY: Client SUPPLIER: Site Won, Site Won  
 DATE RECEIVED: 21/07/2023 MATERIAL: Brown Clay  
 DATE COMPLETED: 28/07/2023 LOCATION: WS07, 2.00, 2.45  
 TESTED BY: HS, JW PREPARATION METHOD: BS 1377:Part 1:2016 cl 8.3 & 8.4.3  
 TYPE OF SAMPLE: VARIATIONS: None  
 WITHIN ORIGINAL SAMPLE: N/A SAMPLING PLAN: Client Provided  
 ENVIRONMENTAL CONDITIONS:

**RESULTS:** Test Location: Harrietsham Lab

TEST DETAILS	TEST RESULT	SPECIFICATION LIMITS	
		Lower Limit	Upper Limit
THE LIQUID LIMIT OF THE SAMPLE: (BS 1377: Part 2:1990 clause 4.4 one point)	64%	N/A	N/A
THE PLASTIC LIMIT OF THE SAMPLE: (BS 1377: Part 2:1990 clause 5.3)	24%	N/A	N/A
THE PLASTICITY INDEX OF THE SAMPLE:	40%		
THE PERCENTAGE PASSING 425µm TEST SIEVE:	95%		
Sample History:	The material was tested in the natural state		

**Remarks:**

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