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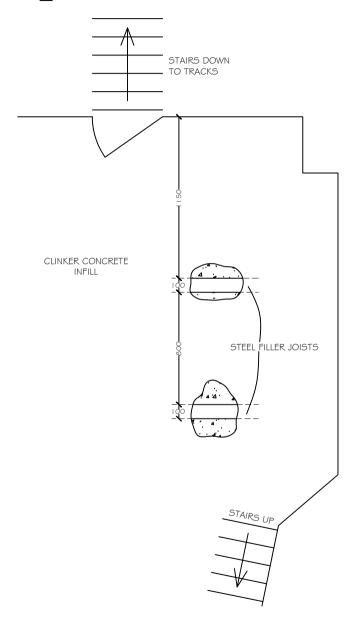
Constructive evaluation Building & Meterial Test Consultants TEL-01243-533499 FAX-01243-531070 email-info@theconstructivegroup.com

BALFOUR BEATTY

Project. KINGS CROSS BRIDGE

Drawing.		scale
, , , , ,	53	NTS
l		

1	date SEPT 14	drawn	D.Y	checked
	drawing number	er 14	1.821	7 revision



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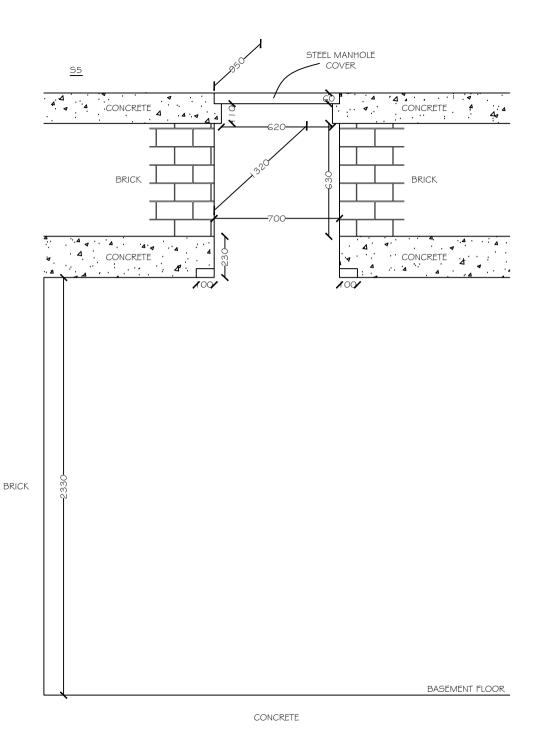


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Project. KINGS CROSS BRIDGE

Drawing. scale NTS Α8

date SEPT 14 drawn D.Y checked drawing number 14.8217 revision



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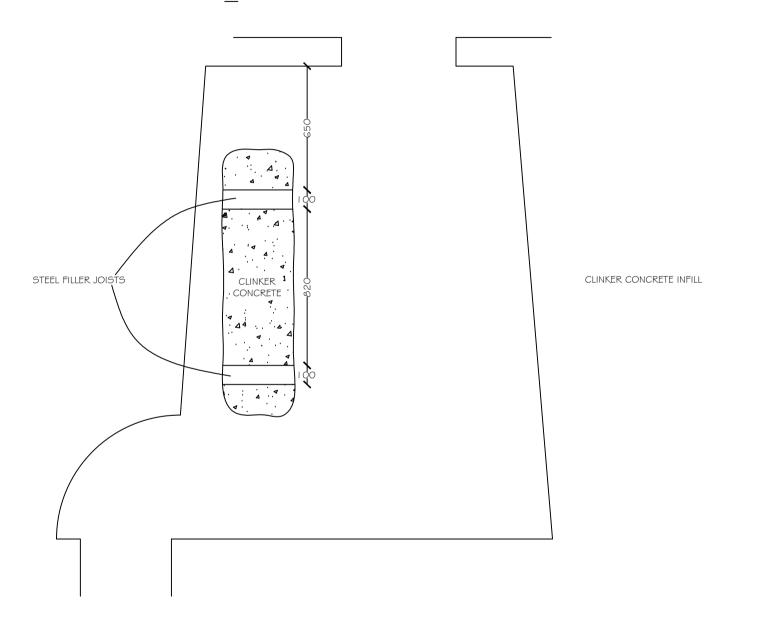
TEL-01243-533499 FAX-01243-531070 email-info@theconstructivegroup.com

Client. BALFOUR BEATTY

Project. KINGS CROSS BRIDGE

scale NTS Drawing. 55

date SEPT 14 drawn D.Y checked revision drawing number 14.8217



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BALFOUR BEATTY

Project.

KINGS CROSS BRIDGE

Drawing.		scale
,	56	NTS

1	date SEPT 14	drawn D.\		checked
	drawing numbe	er 14.82	17	revision

Cores (C01-C04, C11-C14 & C21-C24)

										Borehole No
8		const	ruc	ctiveeval	uati	ion				CC21
				estigation • buildir						Sheet 1 of 1
	ect Na					oject N	lo.	Calarda		Hole Type
		oss Bridge			14	1.8217		Co-ords:	-	CC
		Kings Cross						Level:	-	Scale
				nond coring throu	ıgh exi	sting ro	of	20.5		1:5
		Balfour Bea	atty					Dates:	10/09/2014	Logged By RM
	By: L	Sample	s & Ir	n Situ Testing	Depth	Level	Ī. J			IXIVI
/v en	Water Strikes	Depth (m)	Туре	Results	(m)	Level (m AOD)	Legend	Direter board on	Stratum Description	
								Plaster board an	d polystyrene.	
					0.05			Red Brick		
isiver										
										-
			.							
										-
			.							
										-
			.							
			.							
			.							
			.							
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			.							
			.							
			.							
			.							_
					0.62			CONCRETE		
								CONCILL		
			.							_
					0.72				End of Borehole at 0.72 m	
										
			.							
			.							_
			.							
			.							
			.							
										-

Remarks: Hydrostatic diamond coring through existin g brick work wall approximatley 1.73m above basement floor level.



			Borehole No
constructiveev	C01		
site investigation ● bu	uilding pathology		Sheet 1 of 1
Project Name	Project No.		Hole Type
Kings Cross Bridge Building	14.8217	Co-ords: -	CC
Location: Kings Cross, London	•	Loveli	Scale
Plant: Hydrostatic diamond coring t	hrough existing roof	Level: -	1:5
Client: Balfour Beatty		Dates: 10/00/2014	Logged By
Drilled Bv: LB		Dates: 10/09/2014	RM

Water Strikes Depth (m) Type Results Depth (m AOD) Legend Stratum Description	Drilled By: LB						RM			
0.02 0.02 Light brown concrete SCREED. Moderately strong grey CONCRETE with 50-60% medium to coarse sized aggregate of clinker, glass and ceramic. 10-20% fine to coarse gravel sized voids.	Well Water Samples & In Situ Testing			Depth	Level	Legend	Stratum Deparintian			
Light brown concrete SCREED. Moderately strong grey CONCRETE with 50-60% medium to coarse sized aggregate of clinker, glass and ceramic. 10-20% fine to coarse gravel sized voids.	N = 50, 20, 50	Strikes	Depth (m)	Туре	Results		(m AOD)	Logona		
Moderately strong grey CONCRETE with 50-60% medium to coarse sized aggregate of clinker, glass and ceramic. 10-20% fine to coarse gravel sized voids.						0.02		08(11)8(11)		
0.30						0.02				/
0.30									Moderately strong grey CONCRETE with 50-60% medic sized aggregate of clinker, glass and ceramic. 10-20% coarse gravel sized voids.	um to coarse fine to
End of Borehole at 0.31 m						0.30		18 (18.20)		
									End of Borehole at 0.31 m	
Type Results				Type	Regults	┪	1			-



			Borehole No
constructiveevalu	C02		
site investigation ● building	g pathology		Sheet 1 of 1
Project Name	Project No.		Hole Type
Kings Cross Bridge Building	14.8217	Co-ords: -	CC
Location: Kings Cross, London	•	Lovels	Scale
Plant: Hydrostatic diamond coring through	gh existing roof	Level: -	1:5
Client: Balfour Beatty		Datas: 10/00/2014	Logged By
Drilled By: LB		Dates: 10/09/2014	RM
			,

Orilled By: LB							Dates: 10/09/2014 RM			
	Water Strikes		es & In Type	Situ Testing Results	Depth (m)	Level (m AOD)	Legend	Stratum Description		
	0	Deptil (III)	Турс	resuits		(, ()	X(X(X)	Waterproof Bitumen layer.		
					0.02		Y/3\Y/3\Y/	*		
					0.04			Pale brown concrete SCREED. Moderately strong grey CONCRETE with 50-60% medisized aggregate of clinker, glass, metal, brick, tile and ceramic. 5-10% fine to coarse gravel sized voids.	um to coarse	
					0.30			End of Borehole at 0.30 m		
			Туре	Results						



			Borehole No
constructiveev	C03		
site investigation ● bu	uilding pathology		Sheet 1 of 1
Project Name	Project No.		Hole Type
Kings Cross Bridge Building	14.8217	Co-ords: -	CC
Location: Kings Cross, London		Loveli	Scale
Plant: Hydrostatic diamond coring the	hrough existing roof	Level: -	1:5
Client: Balfour Beatty		Dates: 10/09/2014	Logged By
Drilled Bv: LB		Dates: 10/09/2014	RM

Drilled By: LB						RM			
Water Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Ctratum Deceriation		
7 3 5 5 5 5	Strikes	Depth (m)	Туре	Results	(m)	(m AOD)	Legenu	Stratum Description	
					0.02			Waterproof Bitumen layer.	
					0.03			Pale brown concrete SCREED.	
								Moderately strong grey CONCRETE with 50-60% mediur sized aggregate of clinker, glass, brick and ceramic. 5-10 to coarse gravel sized voids.	n to coarse)% fine
					0.30				
8 2 8% % A					0.30			End of Borehole at 0.30 m	
			<u> </u>	D. 1					-
			Туре	Results					



			Borehole No					
constructiveevalu	constructiveevaluation							
site investigation • building	pathology		Sheet 1 of 1					
Project Name	Project No.		Hole Type					
Kings Cross Bridge Building	14.8217	Co-ords: -	CC					
Location: Kings Cross, London		Loveli	Scale					
Plant: Hydrostatic diamond coring through	existing roof	Level: -	1:5					
Client: Balfour Beatty		Dates: 10/09/2014	Logged By					
Drilled By: LB		Dates: 10/09/2014	RM					

Orilled	d By: L	_B						Dates. 10/09/2014	RM
Well	Water Strikes	Sample	es & In	Situ Testing	Depth (m)	Level (m AOD)	Legend	Ctratum Deceription	
	Strikes	Depth (m)	Туре	Results	(m)	(m AOD)	Legenu	Stratum Description	
					0.02			Hydrostatic diamond coring through existing roof slab.	
					0.04			Pale brown concrete SCREED.	
								Moderately strong grey CONCRETE with 50-60% mediu sized aggregate of clinker, glass, wood, brick and ceram fine to coarse gravel sized voids.	m to coarse ic. 10%
					0.31				
								End of Borehole at 0.31 m	
			Туре	Results					<u> </u>



>	>			tiveeval					Borehole No C11
			LETTIVE	Stigation • bullul					Sheet 1 of 1
	ect Na		ם ייום:	n a		oject N I.8217	Ю.	Co-ords: -	Hole Type CC
		ss Bridge			14	1.0217			Scale
Р	lant: H		diam	naon nond coring throu	ıgh exi	sting ro	of	Level: -	1:5
	ient: E By: L	lalfour Be B	atty					Dates: 10/09/2014	Logged By RM
M/all	Water Strikes		es & In Type	Situ Testing Results	Depth (m)	Level (m AOD)	Legend	Stratum Description	
		,	31		0.11			Floor covering over moderatley strong grey CONCRETE fine to medium gravel sized aggregate of flint.	
					0.30			Strong grey CONCRETE with 50-60% medium to coarse aggregate of flint.	e sized
								End of Borehole at 0.32 m	



				Borehole No						
constructiveevalu	ıation			C12						
site investigation ● building pathology										
Project Name	Project N	lo.		Hole Type						
Kings Cross Bridge Building	14.8217		Co-ords: -	CC						
Location: Kings Cross, London			Lavali	Scale						
Plant: Hydrostatic diamond coring throug	h existing ro	of	Level: -	1:5						
Client: Balfour Beatty		Dates: 10/09/2014	Logged By							
Drilled By: LB										
Well Water Samples & In Situ Testing Strikes Depth (m) Type Results	Depth Level (m) (m AOD)	Legend	Stratum Description							
Deptif (iii) Type Results	() (1117100)									

rilled)	l By: L	.B						Dates: 10/09/2014	RM
	Water Strikes	Sample Depth (m)	es & In	Situ Testing Results	Depth (m)	Level (m AOD)	Legend	Stratum Description	
	Otriitoo	Deptil (III)	Туре	Results	()	(1117102)		Pale grey concrete SCREED.	
					0.05			Moderately strong grey CONCRETE with 50-60% media sized aggregate of clinker, glass and ceramic.	ım to coarse
					0.25 0.26			Plaster End of Borehole at 0.26 m	
			Туре	Results					



	_				_			Borehole N	О
			ctiveeval					C13	
		te inve	estigation • buildir					Sheet 1 of	
Project N	ame				oject N	0.	Co-ords: -	Hole Type	•
Kings Cro	oss Bridge	Buildi	ing	14	1.8217		Co-oras: -	CC	
	Kings Cros						Level: -	Scale	
Plant:	Hydrostatic	: diam	nond coring throu	ıgh exi	sting ro	of	Level	1:5	
Client:	Balfour Bea	atty					Dates: 10/09/2014	Logged By	/
Drilled By:						·	Dates. 10/03/2017	RM	
Well Water Strikes	Sample Depth (m)	es & In	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description		
			1.555	0.02			Pale grey CONCRETE SCREED		
				0.23 0.25			Moderately strong dark grey CONCRETE with 50-60% m coarse sized aggregate of clinker, glass and ceramic. 20 fine to coarse gravel sized voids. Pale brown concrete SCREED. End of Borehole at 0.26 m	nedium to 1-30%	



				Borehole N	lo							
constructiveevalu	constructiveevaluation											
site investigation ● building		Sheet 1 of	1									
Project Name	Project I	No.		Hole Type	€							
Kings Cross Bridge Building	14.8217		Co-ords: -	CC								
Location: Kings Cross, London			Lavali	Scale								
Plant: Hydrostatic diamond coring through	h existing r	oof	Level: -	1:5								
Client: Balfour Beatty	Dates: 10/09/2014	Logged By	y									
Drilled By: LB												
Well la	Depth Level (m) (m AOE	Legend	Stratum Description	•								
Strikes Depth (m) Type Results	Deput (III) Type Results (III) III III											

rilled	By: L	.B	-					Dates: 10/09/2014 RM				
Well	Water Strikes	Sample Depth (m)	es & In Type	Situ Testing Results	Depth (m)	Level (m AOD)	Legend	Stratum Description				
	O	Берит (тіт)	Туре	Results		(7102)		Floor cover over pale brown concrete SCREED.				
					0.05			Moderately strong grey CONCRETE with 60-70% medis sized aggregate of clinker, flint and occasional wood. 50 to medium gravel sized voids.	um to coarse % fine			
					0.23			Pale grey concrete SCRFFD				
					0.23			Pale grey concrete SCREED. End of Borehole at 0.24 m				
			Туре	Results								



>	>			ctiveeval					Borehole No C22 Sheet 1 of 1	
-	ject Na					oject N	lo.	Co-ords: -	Hole Type	
		oss Bridge			14	1.8217		Co-ords: -	CC	
		Kings Cros					-	Level: -	Scale 1:5	
				nond coring throu	ıgh exis	sting ro	ot		Logged By	
	lient: E d By: L	Balfour Bea	atty					Dates: 10/09/2014	RM	
	Water Strikes	Sample	es & In	Situ Testing	Depth	Level (m AOD)	Legend	Stratum Description	1	
	Strikes	Depth (m)	Туре	Results	(m) 0.01	(M AUט)	XXXX	Stratum Description Plaster		-
					0.25			Red BRICK		
					0.34			Dark red BRICK Yellow BRICK		
					0.50			End of Borehole at 0.50 m		

Remarks: Hydrostatic diamond coring through existing brick work wall approximately 1.80m above basment floor level. core hole exited to outside space in vacinity of the 'Kiosk'.



										Borehole No	
3		const	ruc	ctiveeval	luat	ion				C23	
		sit	einve	estigation • build	ing path	ology				Sheet 1 of 1	
Proje	ct Na	ame			Pr	oject N	lo.	0		Hole Type	
Kings	s Cro	ss Bridge	Buildi	ng	14	1.8217		Co-ords:	-	CC	
		Kings Cros						Level:		Scale	
Pl	ant: F	Hydrostatic	diam	ond coring equ	ipment			Level.	-	1:5	
		Balfour Bea	atty					Dates:	10/09/2014	Logged By	
Drilled		.B		·			T T	Date.	10/00/2011	RM	
Well S	Nater Strikes	Depth (m)	Type	Situ Testing Results	Depth (m)	Level (m AOD	Legend		Stratum Description		
					0.16			Red BRICK	SINEERING BRICK		
					0.80			Pellow BRICK Brown sandy gra	evelly CLAY (BACKFILL) End of Borehole at 0.90 m		

Remarks: Hydrostatic diamond coring through existing brick work wall approximately 1.75m above basement floor level.



		const	ruc	ctiveeval	uat	ion				Borehole N	Ю
		sit	teinve	estigation • buildi	ng path	ology				Sheet 1 of	
	ect N	ame oss Bridge	Build	ina		oject N I.8217	lo.	Co-ords:	: -	Hole Typ	е
		Kings Cros				1.0217				Scale	
				nond coring equi	pment			Level:	-	1:5	
С	lient: E	Balfour Be	atty					Dates:	10/09/2014	Logged B	У
	By: L	В	- 0 1	O'4 T	I	Ι		Dates.	10/03/2014	RM	
Well	Water Strikes	Depth (m)	Type	Situ Testing Results	Depth (m)	Level (m AOD)	Legend		Stratum Description		
								Light grey CON	CRETE SCREED.		
					0.05			D. I. I. I. DDIOI	,		-
								Dark red BRICK	•		
											-
											-
											-
											-
					0.74			Void (arched wa	all noted beyond wall)		+
											-
											-

Remarks: Hydrostatic diamond coring through existing brick work wall approximately 2.00m above basement floor level at a 51 degree angle into the corner of te wall. A void was noted at 0.74m into the brickwork with signs of an arched structure noted behind.



APPENDIX D

Laboratory Certificates





To BS EN: 12504-1 and BS EN 12390-3 Current Revisions

Contract No.	14.8217		Date:	26/09/2014
Client : Site :	Kings Cross			
Date of Coring :	10/09/14		Operative :	ĹB
Floor Level/Position :	Roof			
CORE DETAIL		Core N	o./Ref	C01
Mux Nominal Size of Aggrega (BS EN 12620:2002:Table 1)	ste (mm) : 2	0.0		
Presence of Abnormalities :	١	None		
Reinforcement :	1	None		
Length as Received (mm):	2	285		
Length after Preparation (mm	9: 7	70		
Mean Diameter (mm) :	6	69		
Length to Diameter Ratio :	1	10.1		
Method of End Preparation:	1	Diamor	nd Saw	
Measured Density:		1873	kg/m³	
Dute Tested :	:	26/09/2	2014	
Surface Moisture Condition of Maximum Failure Load (kN) Type of Failure: Measured Compressive Stren	:	Wet		
Estimated Potential Strength				

Declaration :	nd testing was performed in accordance with BS EN 12504-1:2000 and
	nd lesting was performed at accordance with an
BS EN 12390-3:2002	, 1
Signed	B Modhard
Date	26/9/14

^{**}The Estimated Potential Strength has been calculated using Concrete Society Technical Report 11 guidelines and assuming the core was drilled vertically. The excess voidage for the core is estimated to be 8%.



To BS EN: 12504-1 and BS EN 12390-3 Current Revisions

Contract No.		Date :	26/09/2014
Client:			
Site: Kings Cross			
Date of Coring:	10/09/14	Operative :	LB
Floor Level/Position :	Roof		
CORE DETAIL	Core	e No./Ref	C02
Max Nominal Size of Aggregate (mm): (BS EN 12620:2002:Table 1)	25		
Presence of Abnormalities :	None	•	
Reinforcement:	None	•	
Length as Received (mm):	292		
Length after Preparation (mm):	73		
Mean Diameter (mm):	70		
Length to Diameter Ratio :	1.04		
Method of End Preparation:	Dian	nond Saw	
Measured Density:	1837	7 kg/m³	
Date Tested :	26/0	9/2014	
Surface Moisture Condition at Time of Te Maximum Failure Load (kN):	st: Wet		
Type of Failure:			
Measured Compressive Strength (N/mm²)	:		
Estimated Potential Strength **			

Declaration :	
That coring, examination a	nd testing was performed in accordance with BS EN 12504-1:2000 and
BS EN 12390-3:2002	
Signed	Toullow I
Date	26/9/14

^{**}The Estimated Potential Strength has been calculated using Concrete Society Technical Report 11 guidelines and assuming the core was drilled vertically. The excess voidage for the core is estimated to be 3%.



To BS EN:12504-1 and BS EN 12390-3 Current Revisions

Contract No.	Date:	26/09/201
Client:		
Site: Kings Cross		
Date of Coring :	Operative :	
Floor Level/Position : Ro		
CORE DETAIL	Core No./Ref	C03
Max Nominal Size of Aggregate (mm) : (BS EN 12620:2002:Table 1)	20	
Presence of Abnormalities :	None	
Reinforcement :	None	
Length as Received (mm) :	282	
Length after Preparation (mm) :	68	
Mean Diameter (mm) :	69	
Length to Diameter Ratio :	0.99	
Method of End Preparation:	Diamond Saw	
Measured Density :	1905 kg/m³	
Date Tested :		26/09/2014
Surface Moisture Condition at Time of Test : Maximum Failure Load (kN) :	Wet	
Type of Failure :		
Measured Compressive Strength (N/mm²):		
Estimated Potential Strength **		

**The Estimated Potential Strength has been calculated using Concrete Society Technical Report 11 guidelines and assuming the core was drilled vertically. The excess voidage for the core is estimated to he 8%

That coring, examination and testing was performed in accordance with BS EN 12504-1;2000 and

BS EN 12390-3:2002

Signed

Date



To BS EN: 12504-1 and BS EN 12390-3 Current Revisions

Contract No.	Date :	
Client:		
Site: Kings Cross		
Date of Coring :	Operative :	
Date of Corning (•	
Floor Level/Position: Root		
CORE DETAIL	Core No./Ref	C04
Max Nominal Size of Aggregate (mm):	30	
(BS EN 12620:2002:Table 1)		
Presence of Abnormalities :	None	
Reinforcement:	None	
Length as Received (mm):	287	
Length after Preparation (mm):	69	
Mean Diameter (mm) :	69	
Length to Diameter Ratio :	1.00	
Method of End Preparation:	Diamond Saw	
Measured Density:	1 74 1 kg/m³	
Date Tested :		26/09/2014
Surface Moisture Condition at Time of Test:	Wet	
Maximum Failure Load (kN):	***************************************	
Type of Failure:		
Measured Compressive Strength (N/mm²):		
Estimated Potential Strength **		

Declaration :	
That coring, examination	and testing was performed in accordance with BS EN 12504-1:2000 and BS
EN 12390-3:2002	
Signed	B moghning
Date	26/9/14

**The Estimated Potential Strength has been calculated using Concrete Society Technical Report 11 guidelines and assuming the core was drilled vertically. The excess voidage for the core is estimated to be 8%.

constructive evaluation

CORE COMPRESSION TEST REPORT

To BS EN:12504-1 and BS EN 12390-3 Current Revisions

Contract No.	14.7217		Date :	26/09/2014
Tient : ite :	Kings Cross			
Date of Coring:	10	/09/2014	Operative :	LB
Floor Level/Position :	Fl	oor		C11
CORE DETAIL		Core	No./Ref	CII
Max Nominal Size of Agg (BS EN 12620:2002:Table		35		
Presence of Abnormalities	· •	None	;	
Reinforcement :		None	;	
Length as Received (mm)	:	300		
Length after Preparation	(mm) :	69		
Mean Diameter (mm) :		69		
Length to Diameter Ratio	;	1.00		
Method of End Preparation	on:	Dian	nond Saw	
Measured Density:		1821	kg/m³	
Date Tested :				26/09/2014
ننفه بحس میرم م	Tim f.T	: Wet		
Surface Moisture Condition		26	•	
Maximum Failure Load	(KIY) :	Nor	mal	
Type of Failure:	tenaniath (N/mm²) +	6.95		
Measured Compressive S Estimated Potential Stree		8.34		

Deciaration :	and testing was performed in accordance with BS EN 12504-1:2000 and BS
	I allu testilik was benomine in accommod in
EN 12390-3:2002	
Signed	B insolinad
Date	26/9/14

**The Estimated Potential Strength has been calculated using Concrete Society Technical Report 11 guidelines and assuming the core was drilled vertically. The excess voidage for the core is estimated to be 15%.



To BS EN:12504-1 and BS EN 12390-3 Current Revisions

Contract No.	14.7217		Date:	26/09/2014
Client:				
Site:	Kings Cross			
Date of Coring:	10/0	19/2014	Operative :	LB
Floor Level/Position :	Floc			
CORE DETAIL		Core	No./Ref	C12
Max Nominal Size of Aggrega (BS EN 12620:2002:Table 1)	te (mm) :	30		
Presence of Abnormalities:		None		
Reinforcement :		None		
Length as Received (mm):		260		
Length after Preparation (mm):	71		
Mean Diameter (mm) :		69		
Length to Diameter Ratio :		1.03		
Method of End Preparation:		Diamo	nd Saw	
Measured Density :		1898	kg/m³	
Date Tested :				26/09/2014
Surface Moisture Condition a	t Time of Test :	Wet		
Maximum Failure Load (kN)		54		
Type of Failure:		Norma	al	
Measured Compressive Streng	gth (N/mm²) :	14.44		
Estimated Potential Strength	**	17.53		

Declaration :	
That coring, examination	n and testing was performed in accordance with BS EN 12504-1:2000 and BS
EN 12390-3:2002	~ X:
Signed	Sandon I
Signed	2/0/14
Date	26/4/4

^{**}The Estimated Potential Strength has been calculated using Concrete Society Technical Report 11 guidelines and assuming the core was drilled vertically. The excess voidage for the core is estimated to be 6%.



To BS EN:12504-1 and BS EN 12390-3 Current Revisions

Contract No.	14.7217		Date :	26/09/2014
Client : Site :	Kings Cross			
Date of Coring :	10/09/2	2014	Operative :	LB
Floor Level/Position :	Floor			
CORE DETAIL		Core	No./Ref	C13
Max Nominal Size of Aggrega (BS EN 12620:2002:Table 1)	ste (mm) :	30		
Presence of Abnormalities :		None		
Reinforcement :		None		
Length as Received (mm) :		250		
Length after Preparation (mm):	67		
Mean Diameter (mm) :		69		
Length to Diameter Ratio :		0.97		
Method of End Preparation:		Diamo	nd Saw	
Measured Density:		1402	kg/m³	
Date Tested :				26/09/2014
Surface Moisture Condition a Maximum Failure Load (kN)		Wet 12		
Type of Failure :		Norma	ıl	
Measured Compressive Streng Estimated Potential Strength '		3.21 3.81		

Declaration:	
That coring, examin	nation and testing was performed in accordance with BS EN 12504-1:2000 and BS
EN 12390-3:2002	
Signed	Buodrad
_	a lake
Date	26/1/Q

**The Estimated Potential Strength has been calculated using Concrete Society Technical Report 11 guidelines and assuming the core was drilled vertically. The excess voidage for the core is estimated to be 20%.



To BS EN:12504-1 and BS EN 12390-3 Current Revisions

Contract No.	14.7217		Date :	26/09/2014
Client :				
Site :	Kings Cros	is		
Date of Coring :		10/09/2014	Operative :	LB
Floor Level/Position :		Floor		
CORE DETAIL		Core	No./Ref	C14
Max Nominal Size of Agg (BS EN 12620:2002:Tabl	_	30		
Presence of Abnormalitie	s :	None		
Reinforcement :		None		
Length as Received (mm)	:	240		
Length after Preparation	(mm) :	69		
Mean Diameter (mm) :		70		
Length to Diameter Ratio	:	0.99		
Method of End Preparation	on:	Diamo	ond Saw	
Measured Density:		1921	kg/m³	
Date Tested :		26/09/	/2014	
Surface Moisture Conditi	on at Time of Te	st: Wet		
Maximum Failure Load (kN):	49		
Type of Failure:		Norm	ial	
Measured Compressive Si	rength (N/mm²)	: 12.73		
Estimated Potential Stren	gth **	15.19		

Date	26/4/19
Signed	~ (/c / /
or	Bundania
EN 12390-3:2002	
That coring, examination	and testing was performed in accordance with BS EN 12504-1:2000 and BS
Deciaration :	

**The Estimated Potential Strength has been calculated using Concrete Society Technical Report 11 guidelines and assuming the core was drilled vertically. The excess voidage for the core is estimated to be 5%

APPENDIX E

Limitations



The Environment Agency has recently undertaken revision of the Soil Guideline Values (SGVs) which are partially complete. Where standards are available using the "new" approach, these have been utilised for correlative purposes. Where standards have not yet been revised, guidance following the "old" approach has been utilised. Please note that upon release of the remaining guidelines, the standards contained within this report may be subject to change. In addition, the second edition of the LQM CIEH guidance has now been released and will be utilised in favour of previously published guideline values.

The Client is advised that the conditions observed on site by Constructive Evaluation Limited at the time of the walkover survey are subject to change. Certain indicators of the presence of hazardous substances may have been latent a the time of the most recent site reconnaissance and they may subsequently have become noticeable.

The Client is advised that although every effort is made to identify suspect areas CE cannot be held responsible if buildings on site contain Asbestos. Additionally Engineers sent to site are not specially trained in this aspect of work: if further determination is required the expertise of a BHOS trainer surveyor should be sought.

Comments made relating to soil or groundwater conditions are obtained from the sources described within the text and observations made at the time of the walkover survey unless otherwise stated. Soil or groundwater conditions may vary as a result of seasonal fluctuations or other effects.

The accuracy of the map extracts can not be guaranteed and it should be noted that different conditions may have existed between the subsequent to the various map surveys. Therefore, there can be no certainty that all areas of contamination have been identified during the Phase 1 investigation.

Every effort is undertaken to provide information regarding the potential risks associated with flooding, however CE may not be party to information which the local Authority and Environment Agency may hold in relation to historical or flash flood events.

This assessment is to be regarded preliminary in nature and may be subject to amendment in light of additional information becoming available or statutory consultee review, including the Environment Agency, Local council and NHBC etc. The statutory consultees have not been contacted at this time:

The findings and opinions conveyed in this report are based on information obtained from a variety of sources, including that from previous Site investigations and chemical testing laboratories. Constructive Evaluation Limited has assumed that such information is correct. Constructive Evaluation Limited cannot and does not guarantee the authenticity or reliability of the information it has relied upon and can accept no responsibility for inaccuracies with the data supplied by other parties.

This report is written in the context of an agreed scope of work between Constructive Evaluation Limited and the Client and should not be used in a different context. In light of additional information becoming available, improved practices and changes in legislation amendment or re-interpretation of the assessment or report in whole or part may be necessary after its original submission.

This report is provided for sole use by the Client and is confidential to them. No responsibility whatsoever for the contents of the report will be accepted to anyone other than the Client.

Constructive Evaluation Limited believes that providing information about limitations is essential to help the Client identify and thereby assess and manage risks.

The copyright of written materials supplied shall remain the property of Constructive Evaluation Limited but with a royalty-free perpetual licence, granted to the Client on payment in full of any outstanding monies.

Constructive Evaluation Limited does not provide legal advice and the advice of the Client's legal advisors may also be required.

An ecological, topographical, archaeological, asbestos survey or service search was outside the scope of this report.

