



Borehole Soakage Test

Site Newmarket Road, Royston, Herts, SG8 7NJ

Client Countryside Properties

Engineer

Job Number
J16202

Sheet
1/2

Date: 20 December 2016

Borehole No: 8

Test No: 4

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 20.00

Casing depth (m): 6.20

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 6.5
D2 (m) 1.5
T1 (min) 0
T2 (min) 20

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	13.50	6.50
1	13.50	6.50
2	14.00	6.00
3	14.50	5.50
4	15.00	5.00
5	15.50	4.50
10	17.00	3.00
15	18.00	2.00
20	18.50	1.50
30	18.90	1.10
45	19.50	0.50

Soakage Volume (m³) 0.088

Soakage Area (m²) 1.90

Time (min) 20

Soakage rate (m/sec) 3.86997E-05

Soakage rate (m/day) 3.343653251

Remarks:

Test carried out in Cable percussion borehole
Sides of borehole remained stable during test



Geotechnical &
Environmental
Associates

Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Borehole Soakage Test

Site Newmarket Road, Royston, Herts, SG8 7NJ

Client Countryside Properties

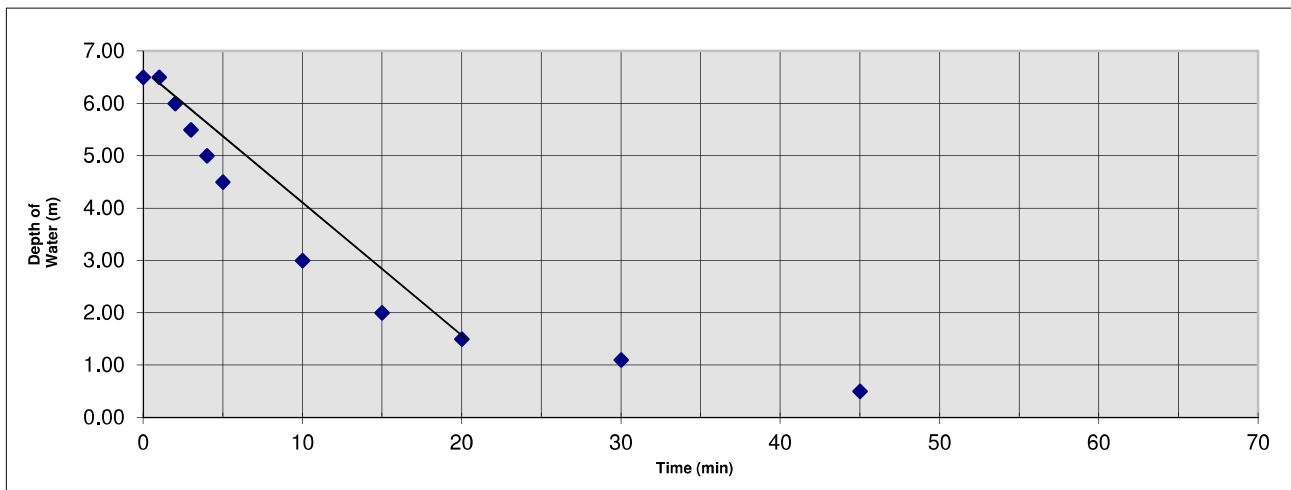
Engineer

Job Number
J16202

Sheet
2/2

Soakage Graph

Test No: 4



Remarks:

Test carried out in Cable percussion borehole
Sides of borehole remained stable during test



Saturation Moisture Content - Summary of Results
Tested in accordance with BS1377 : Part 2 : 1990, clause 3.3 unless annotated otherwise.

Job No. 21558	Project Name Royston	Programme	
		Samples received	08/09/2016
		Schedule received	20/10/2016
Project No. J16202	Client GEA	Project started	20/10/2016
		Testing Started	25/10/2016

Hole No.	Sample				Description	SMC %	NMC %	Bulk Density Mg/m3	Dry Density Mg/m3	Remarks - Sample size complies with BS1377:1990: Part 2 (Yes/No)
	Ref	Top	Base	Type						
BH3	-	4.00	-	D	Off white putty CHALK with fmc intact chalk fragments	27	27	2.00	1.57	No
BH4	-	3.00	-	D	Off white putty CHALK with fm intact chalk fragments	35	32	1.83	1.38	No
TP1	-	0.80	-	D	Fmc intact CHALK fragments	35	32	1.82	1.39	Yes
TP2	-	0.90	-	D	Fmc intact CHALK fragments	32	30	1.88	1.44	Yes
TP3	-	1.00	-	D	Fmc intact CHALK fragments	29	24	1.88	1.52	Yes

	Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com		Checked and Approved	
			Initials	J.P
			Date:	26/10/2016
2519	Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)			MSF-5-R18



Saturation Moisture Content - Summary of Results
Tested in accordance with BS1377 : Part 2 : 1990, clause 3.3 unless annotated otherwise.

Job No. 21882	Project Name Royston	Programme	
		Samples received	03/11/2016
		Schedule received	02/11/2016
Project No. J16202	Client GEA	Project started	03/11/2016
		Testing Started	03/11/2016

Hole No.	Sample				Description	SMC %	NMC %	Bulk Density Mg/m3	Dry Density Mg/m3	Remarks - Sample size complies with BS1377:1990: Part 2 (Yes/No)
	Ref	Top	Base	Type						
TP8	-	0.50	-	D	Off white fmc CHALK fragments	28	27	1.95	1.54	NO
TP8	-	1.00	-	D	Off white fmc CHALK fragments	32	30	1.90	1.46	NO
TP8	-	1.50	-	B	Off white fmc CHALK fragments	34	34	1.88	1.41	YES
TP8	-	2.00	-	B	Off white fmc CHALK fragments	33	32	1.89	1.44	YES
TP8	-	3.00	-	B	Off white fmc CHALK fragments	33	32	1.89	1.43	YES
TP9	-	0.50	-	D	Off white fmc CHALK fragments	28	26	1.94	1.54	NO
TP9	-	1.00	-	D	Off white fmc CHALK fragments	31	31	1.91	1.46	NO
TP9	-	1.50	-	D	Off white fmc CHALK fragments	31	31	1.91	1.46	NO
TP9	-	2.00	-	B	Off white fmc CHALK fragments	30	29	1.94	1.50	YES
TP9	-	3.00	-	B	Off white fmc CHALK fragments	30	30	1.94	1.50	YES
TP11	-	0.50	-	D	Off white fmc CHALK fragments	32	29	1.86	1.44	NO
TP11	-	1.00	-	D	Off white fmc CHALK fragments	30	29	1.92	1.49	NO

 UKAS TESTING	Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com		Checked and Approved	
			Initials	J.P
			Date:	04/11/2016
2519	Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)			MSF-5-R18



Saturation Moisture Content - Summary of Results
Tested in accordance with BS1377 : Part 2 : 1990, clause 3.3 unless annotated otherwise.

Job No. 21882	Project Name Royston	Programme	
		Samples received	03/11/2016
		Schedule received	02/11/2016
Project No. J16202	Client GEA	Project started	03/11/2016
		Testing Started	03/11/2016

Hole No.	Sample				Description	SMC %	NMC %	Bulk Density Mg/m3	Dry Density Mg/m3	Remarks - Sample size complies with BS1377:1990: Part 2 (Yes/No)
	Ref	Top	Base	Type						
TP11	-	1.50	-	D	Off white fmc CHALK fragments	28	27	1.95	1.53	NO
TP11	-	2.00	-	D	Off white fmc CHALK fragments	31	30	1.91	1.47	NO
TP11	-	2.50	-	D	Off white fmc CHALK fragments	30	29	1.92	1.49	NO
TP12	-	0.50	-	D	Off white fmc CHALK fragments	32	30	1.88	1.45	NO
TP12	-	1.00	-	D	Off white fmc CHALK fragments	33	31	1.86	1.43	NO
TP12	-	1.50	-	D	Off white fmc CHALK fragments	35	30	1.82	1.39	YES
TP12	-	2.00	-	B	Off white fmc CHALK fragments	31	30	1.91	1.47	NO
TP12	-	2.50	-	B	Off white fmc CHALK fragments	32	31	1.89	1.44	NO

	Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com								Checked and Approved	
									Initials	J.P
									Date:	04/11/2016
2519	Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)								MSF-5-R18	

					Saturation Moisture Content - Summary of Results Tested in accordance with BS1377 : Part 2 : 1990, clause 3.3 unless annotated otherwise.						
Job No.		Project Name								Programme	
22049		Royston								Samples received	06/12/2016
										Schedule received	06/12/2016
Project No.		Client								Project started	
J16202		GEA								Testing Started	07/12/2016
Hole No.	Sample				Description	SMC %	NMC %	Bulk Density Mg/m3	Dry Density Mg/m3	Remarks - Sample size complies with BS1377:1990: Part 2 (Yes/No)	
	Ref	Top	Base	Type							
BH6	-	6.00	-	D	Off white putty CHALK with fmc intact chalk fragments	33	31	1.87	1.42	No	
BH6	-	9.00	-	D	Off white putty CHALK with fmc intact chalk fragments	33	30	1.86	1.43	No	
BH6	-	12.00	-	D	Off white putty CHALK with fmc intact chalk fragments	30	27	1.91	1.50	No	
BH6	-	16.65	-	D	Off white putty CHALK with fmc intact chalk fragments	30	28	1.91	1.49	No	
BH6	-	19.50	-	D	Off white and occasional brownish grey putty CHALK with fmc intact chalk fragments	30	28	1.91	1.50	No	
 Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com Checked and Approved Initials J.P Date: 08/12/2016											
2519	Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)									MSF-5-R18	

					Saturation Moisture Content - Summary of Results Tested in accordance with BS1377 : Part 2 : 1990, clause 3.3 unless annotated otherwise.						
Job No. 22171		Project Name Royston								Programme	
										Samples received	03/01/2017
										Schedule received	09/01/2017
Project No. J16202		Client GEA								Project started	10/01/2017
										Testing Started	10/01/2017
Hole No.	Sample				Description	SMC %	NMC %	Bulk Density Mg/m3	Dry Density Mg/m3	Remarks - Sample size complies with BS1377:1990: Part 2 (Yes/No)	
Ref	Top	Base	Type								
BH7	-	1.00	-	B	Off white fm intact CHALK fragments in a brown and off white chalky clayey matrix	27	27	1.97	1.55	No	
BH7	-	2.00	-	U	Off white FMC intact CHALK fragments in a putty chalk matrix	28	26	1.96	1.55	No	
BH7	-	4.00	-	U	Off white FMC intact CHALK fragments in a putty chalk matrix	29	29	1.96	1.52	No	
BH7	-	6.50	-	U	Off white FMC intact CHALK fragments in a putty chalk matrix	28	28	1.96	1.53	No	
BH7	-	7.75	-	D	Off white FMC intact CHALK fragments in a putty chalk matrix	33	31	1.88	1.44	No	
BH7	-	9.50	-	U	Off white FMC intact CHALK fragments in a putty chalk matrix	30	31	1.95	1.48	No	
BH7	-	12.50	-	U	Off white FMC intact CHALK fragments in a putty chalk matrix	33	32	1.90	1.44	No	
BH8	-	1.00	-	U	Off white FMC intact CHALK fragments in a putty chalk matrix	32	30	1.87	1.44	No	
BH8	-	2.00	-	D	Off white FMC intact CHALK fragments in a putty chalk matrix	35	34	1.86	1.39	No	
BH8	-	3.50	-	B	Off white FMC intact CHALK fragments in a putty chalk matrix	35	35	1.87	1.39	No	
BH8	-	5.00	-	U	Off white FMC intact CHALK fragments in a putty chalk matrix	31	31	1.93	1.47	No	
BH8	-	6.00	-	D	Off white FMC intact CHALK fragments in a putty chalk matrix	32	32	1.92	1.45	No	
 Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com Checked and Approved Initials J.P Date: 11/01/2017											
2519		Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)								MSF-5-R18	



Saturation Moisture Content - Summary of Results
Tested in accordance with BS1377 : Part 2 : 1990, clause 3.3 unless annotated otherwise.

Job No. 22171	Project Name Royston	Programme	
		Samples received	03/01/2017
		Schedule received	09/01/2017
Project No. J16202	Client GEA	Project started	10/01/2017
		Testing Started	10/01/2017

Hole No.	Sample				Description	SMC %	NMC %	Bulk Density Mg/m3	Dry Density Mg/m3	Remarks - Sample size complies with BS1377:1990: Part 2 (Yes/No)
	Ref	Top	Base	Type						
BH8	-	8.00	-	U	Off white FMC intact CHALK fragments in a putty chalk matrix	31	31	1.92	1.47	No
BH8	-	10.50	-	D	Off white FMC intact CHALK fragments in a putty chalk matrix	24	24	2.02	1.64	No
BH8	-	12.50	-	B	Off white FMC intact CHALK fragments in a putty chalk matrix	30	30	1.93	1.48	No
BH8	-	14.50	-	U	Off white FMC intact CHALK fragments in a putty chalk matrix	29	28	1.95	1.52	No
BH8	-	16.75	-	D	Off white FMC intact CHALK fragments in a putty chalk matrix	26	27	2.00	1.58	No
BH8	-	18.00	-	B	Off white FMC intact CHALK fragments in a putty chalk matrix	32	31	1.91	1.45	No
BH8	-	20.00	-	D	Off white FMC intact CHALK fragments in a putty chalk matrix	29	26	1.92	1.52	No

	Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com		Checked and Approved	
			Initials	J.P
			Date:	11/01/2017
2519	Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)			MSF-5-R18



CHALK CRUSHING VALUE - Summary of Results
Tests performed in accordance with BS 1377 : Part 4 : 1990, clause 8

Job No.

21558

Project Name

Royston

Programme

Samples received	08/09/2016
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Schedule received	08/09/2016
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Project No.

J16202

Client	
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GEA

Project started	09/09/2016
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Testing Started	04/10/2016
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Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU
Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved

Initials K.P

Date 06/10/2016

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R21

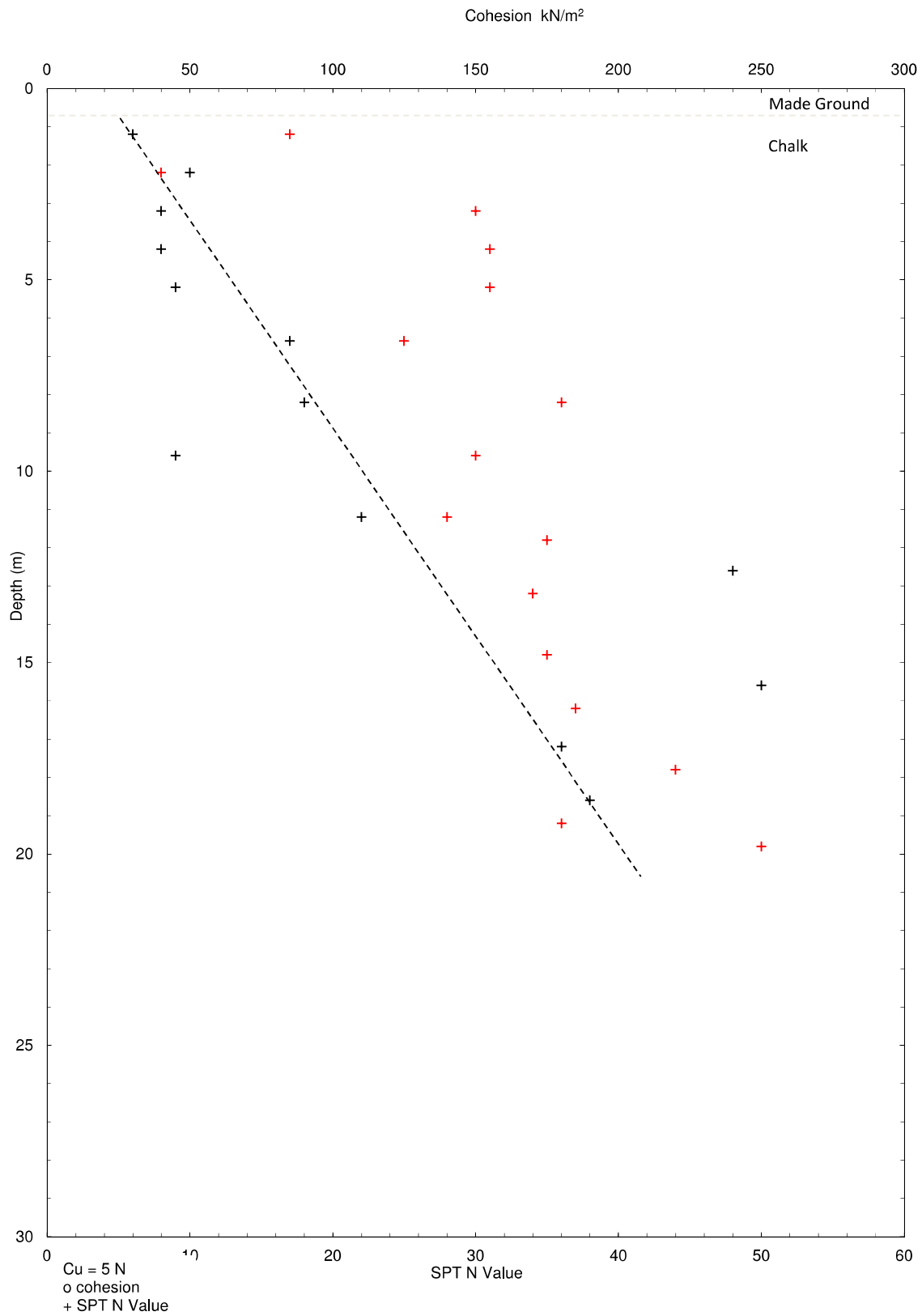
Site Newmarket Road, Royston, Herts, SG8 7NJ

Client Countryside Properties PLC

Engineer

Job Number
J16202

Sheet
1 / 1



Analytical Report Number: 16-27324

Project / Site name: Newmarket Road, Royston, SG8 7NJ

Your Order No: J16202

Lab Sample Number				626989	626990	626991	626992	626993
Sample Reference				BH1	BH2	BH3	BH4	BH5
Sample Number				D	D	D	D	D
Depth (m)				0.30	0.30	0.30	0.40	0.20
Date Sampled				07/09/2016	07/09/2016	07/09/2016	07/09/2016	07/09/2016
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	14	13	13	11	14
Total mass of sample received	kg	0.001	NONE	1.2	1.1	1.1	1.2	1.1

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.3	8.1	8.5	8.5	8.4
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	960	1000	1200	940	1000
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0097	0.013	0.0061	0.0060	0.0079
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	7.4	8.7	12	5.4	7.8
Total Organic Carbon (TOC)	%	0.1	MCERTS	2.1	2.4	2.5	1.8	2.4

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	< 1.60	< 1.60	< 1.60
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Analytical Report Number: 16-27324

Project / Site name: Newmarket Road, Royston, SG8 7NJ

Your Order No: J16202

Lab Sample Number				626989	626990	626991	626992	626993
Sample Reference				BH1	BH2	BH3	BH4	BH5
Sample Number				D	D	D	D	D
Depth (m)				0.30	0.30	0.30	0.40	0.20
Date Sampled				07/09/2016	07/09/2016	07/09/2016	07/09/2016	07/09/2016
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	2.0	3.1	4.2	1.6	4.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.5	0.5	0.5	0.5	0.7
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	10	10	7.4	5.0	7.4
Copper (aqua regia extractable)	mg/kg	1	MCERTS	21	16	17	13	13
Lead (aqua regia extractable)	mg/kg	1	MCERTS	44	31	30	26	29
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.9	< 0.3	< 0.3	0.6	0.7
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	6.2	7.9	6.5	5.7	7.8
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	1.6	< 1.0	2.1
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	31	35	29	27	36

Petroleum Hydrocarbons

TPH (C8 - C10)	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	ISO 17025	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	ISO 17025	< 1.0	5.1	< 1.0	< 1.0	< 1.0
TPH (C21 - C35)	mg/kg	1	ISO 17025	5.4	10	8.6	< 1.0	3.6



Analytical Report Number : 16-27324

Project / Site name: Newmarket Road, Royston, SG8 7NJ

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
626989	BH1	D	0.30	Brown loam and sand with gravel.
626990	BH2	D	0.30	Brown loam and sand with gravel and chalk.
626991	BH3	D	0.30	Brown loam and sand with gravel and vegetation.
626992	BH4	D	0.40	Brown loam and sand with gravel.
626993	BH5	D	0.20	Brown loam and sand with gravel and chalk.

Analytical Report Number : 16-27324

Project / Site name: Newmarket Road, Royston, SG8 7NJ

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	NONE
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L076-PL	D	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

		Widbury Barn Widbury Hill Ware Herts SG12 7QE		Generic Risk-Based Soil Screening Values																																																																																																																																																																																																																						
Site32 Green Street & 17 Dunraven Street, London W1K 7FL				Job Number J16044																																																																																																																																																																																																																						
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speciated testing	<table><tr><th>Contaminant</th><th>Screening Value mg/kg</th><th>Data Source</th></tr><tr><td colspan="3">Anions</td></tr><tr><td>Soluble Sulphate</td><td>500 mg/l</td><td>Structures</td></tr><tr><td>Sulphide</td><td>50</td><td>Structures</td></tr><tr><td>Chloride</td><td>400</td><td>Structures</td></tr><tr><td colspan="3">Others</td></tr><tr><td>Organic Carbon (%)</td><td>6</td><td>Methanogenic potential</td></tr><tr><td>Total Cyanide</td><td>140</td><td>WRAS</td></tr><tr><td>Total Mono Phenols</td><td>290</td><td>SGV</td></tr><tr><td colspan="3">PAH</td></tr><tr><td>Naphthalene</td><td>5.30</td><td>C4SL exp & 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Perylene</td><td>69</td><td>C4SL exp & LQM/CIEH</td></tr><tr><td>Screening value for PAH</td><td>62.9</td><td>B(a)P / 0.15</td></tr><tr><td colspan="3">Chlorinated Solvents</td></tr><tr><td>1,1,1 trichloroethane (TCA)</td><td>27.2</td><td>LQM/CIEH</td></tr><tr><td>tetrachloroethane (PCA)</td><td>1.25</td><td>LQM/CIEH</td></tr><tr><td>tetrachloroethene (PCE)</td><td>2.32</td><td>LQM/CIEH</td></tr><tr><td>trichloroethene (TCE)</td><td>0.308</td><td>LQM/CIEH</td></tr><tr><td>1,2-dichloroethane (DCA)</td><td>0.008</td><td>LQM/CIEH</td></tr><tr><td>vinyl chloride (Chloroethene)</td><td>0.000184</td><td>LQM/CIEH</td></tr><tr><td>tetrachloromethane (Carbon tetra</td><td>0.039</td><td>LQM/CIEH</td></tr><tr><td>trichloromethane (Chloroform)</td><td>1.99</td><td>LQM/CIEH</td></tr></table>			Contaminant	Screening Value mg/kg	Data Source	Anions			Soluble Sulphate	500 mg/l	Structures	Sulphide	50	Structures	Chloride	400	Structures	Others			Organic Carbon (%)	6	Methanogenic potential	Total Cyanide	140	WRAS	Total Mono Phenols	290	SGV	PAH			Naphthalene	5.30	C4SL exp & LQM/CIEH	Acenaphthylene	400	LQM/CIEH	Acenaphthene	480	LQM/CIEH	Fluorene	380	LQM/CIEH	Phenanthrene	200	LQM/CIEH	Anthracene	4,900	LQM/CIEH	Fluoranthene	460	LQM/CIEH	Pyrene	1,000	LQM/CIEH	Benzo(a) Anthracene	6.7	C4SL exp & LQM/CIEH	Chrysene	11	C4SL exp & LQM/CIEH	Benzo(b) Fluoranthene	9.5	C4SL exp & LQM/CIEH	Benzo(k) Fluoranthene	14.1	C4SL exp & LQM/CIEH	Benzo(a) pyrene	4.40	C4SL	Indeno(1 2 3 cd) Pyrene	5.6	C4SL exp & LQM/CIEH	Dibenzo(a h) Anthracene	1.27	C4SL exp & LQM/CIEH	Benzo (g h i) Perylene	69	C4SL exp & LQM/CIEH	Screening value for PAH	62.9	B(a)P / 0.15	Chlorinated Solvents			1,1,1 trichloroethane (TCA)	27.2	LQM/CIEH	tetrachloroethane (PCA)	1.25	LQM/CIEH	tetrachloroethene (PCE)	2.32	LQM/CIEH	trichloroethene (TCE)	0.308	LQM/CIEH	1,2-dichloroethane (DCA)	0.008	LQM/CIEH	vinyl chloride (Chloroethene)	0.000184	LQM/CIEH	tetrachloromethane (Carbon tetra	0.039	LQM/CIEH	trichloromethane 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Copper	2,330	LQM/CIEH																																																																																																																																																																																																																								
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Elemental Mercury	1	SGV																																																																																																																																																																																																																								
Inorganic Mercury	170	SGV																																																																																																																																																																																																																								
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Aromatic C21-C35	1100	LQM/CIEH																																																																																																																																																																																																																								
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Concentrations measured below the above values may be considered to represent 'uncontaminated conditions' which pose 'LOW' risk to human health. Concentrations measured in excess of these values indicate a potential risk which require further, site specific risk assessment.																																																																																																																																																																																																																										
SGV - Soil Guideline Value, derived from the CLEA model and published by Environment Agency 2009																																																																																																																																																																																																																										
LQM/CIEH - Generic Assessment Criteria for Human Health Risk Assessment 2nd edition (2009)derived using CLEA 1.04 model 2009																																																																																																																																																																																																																										
C4SL - Defra Category 4 Screening value based on Low Level of Toxicological Risk																																																																																																																																																																																																																										
C4SL exp & LQM/CIEH calculated using C4SL revisions to exposure assessment but LQM/CIEH health criteria values																																																																																																																																																																																																																										
Calc - sum of nearest available carbon range specified including BTEX for PRO fraction																																																																																																																																																																																																																										
B(a)P / 0.15 - GEA experince indicates that Benzo(a) pyrene (one of the most common and most carcenogenic of the PAHs) rarely exceeds 15% of the total PAH concentration, hence this Total PAH threshold is regarded as being conservative																																																																																																																																																																																																																										

Site	32 Green Street & 17 Dunraven Street, London W1K 7FL	Job Number J16044
Client	Green Street Developments	Sheet 2 / 2
Engineer	Constructure	

Proposed End Use **Residential with plant uptake****The key generic assumptions for this end use are as follows;**

- ☐ that groundwater will not be a critical risk receptor;
- ☐ that the critical receptor for human health will be a young female aged 0 to 6 years old;
- ☐ that the exposure duration will be six years;
- ☐ that the building type equates to a terraced house.
- ☐ that the critical exposure pathways will be direct soil and indoor dust ingestion, consumption of home grown produce, consumption of soil adhering to home grown produce, skin contact with soils and dust, and inhalation of dust and vapours

Where contaminant concentrations are measured at concentrations below the generic screening value it is considered that they pose an acceptable level of risk and thus further consideration of these contaminant concentrations is not required. However, where concentrations are measured in excess of the generic screening value there is considered to be a potential that they could pose an unacceptable risk and thus further action will be required which could include:

- ☐ additional testing to zone the extent of the contaminated material and thus reduce the uncertainty with regard to its potential risk;
- ☐ site specific risk assessment to refine the assessment criteria and allow an assessment to be made as to whether the concentration present would pose an unacceptable risk at this site; or
- ☐ soil remediation or risk management to mitigate the risk posed by the contaminant to a degree that it poses an acceptable risk.

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

95900613_1_1

Customer Reference:

J16202

National Grid Reference:

536910, 240650

Slice:

A

Site Area (Ha):

14.65

Search Buffer (m):

1000

Site Details:

2 Burloes Cottages
Newmarket Road
ROYSTON
Hertfordshire
SG8 7NJ

Client Details:

Mr S Branch
GEA Ltd
Widbury Barn
Widbury Hill
Ware
Herts
SG12 7QE

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	9
Hazardous Substances	-
Geological	10
Industrial Land Use	13
Sensitive Land Use	18
Data Currency	19
Data Suppliers	25
Useful Contacts	26

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v50.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes		Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents					
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 1				1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 1		Yes		
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes	pg 1				1
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 1		1		4 (*19)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 7	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Source Protection Zones	pg 7	1	1		3
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines					n/a
Detailed River Network Offline Drainage	pg 8		Yes		n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 9	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 9				1
Potentially Infilled Land (Water)	pg 9				1
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					