



Site Newmarket Road, Royston, Herts, SG8 7NJ

Client Countryside Properties

Engineer

Job Number
J16202

Sheet
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Date: 19 December 2016

Borehole No: 8

Test No: 1

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 5.50

Casing depth (m): 3.20

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 4.5

D2 (m) 0.8

T1 (min) 2

T2 (min) 30

Time (mins)	Depth to Water (m)	Depth of Water (m)
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1	0.86	4.64
2	1.07	4.43
3	1.19	4.31
4	1.32	4.18
5	1.40	4.10
10	2.52	2.98
15	3.10	2.40
20	3.50	2.00
30	4.70	0.80
45	4.90	0.60

Soakage Volume (m³) 0.065

Soakage Area (m²) 1.27

Time (min) 28

Soakage rate (m/sec) 3.07309E-05

Soakage rate (m/day) 2.655149502

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

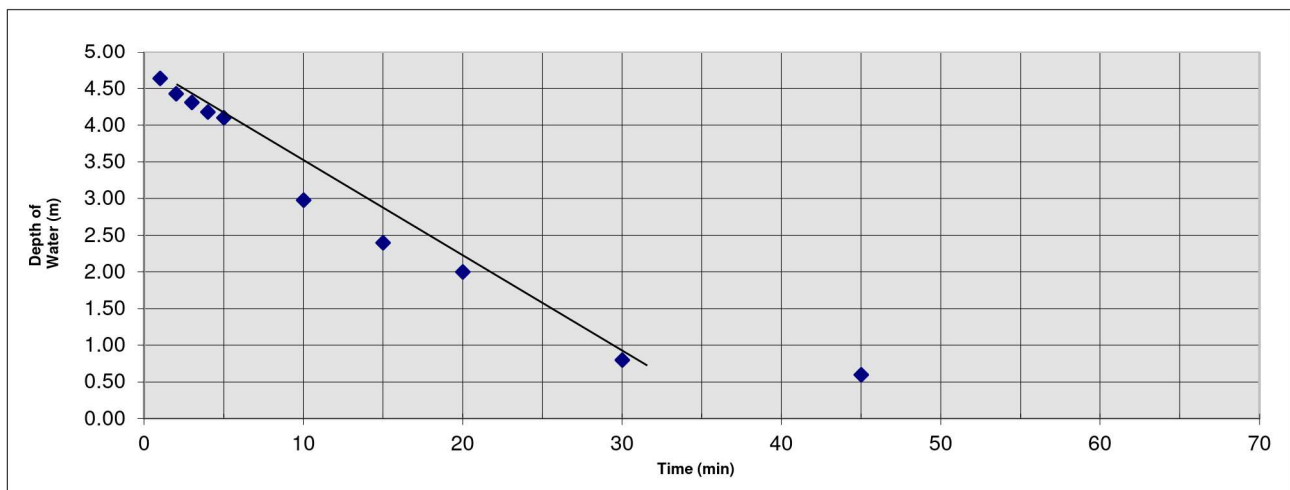
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Soakage Graph

Test No: 1



Remarks:

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

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Client Countryside Properties

Engineer

Job Number
J16202

Sheet
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Date: 20 December 2016

Borehole No: 7

Test No: 1

Test Data

Before start of test:

Borehole depth (m): 6.50

Casing depth (m): 5.00

Water level (m): DRY

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	0.00	6.50
1	0.40	6.10
2	0.80	5.70
3	1.20	5.30
4	1.55	4.95
5	1.95	4.55
10	2.95	3.55
15	3.75	2.75
20	4.25	2.25
30	4.60	1.90
45	5.50	1.00

Soakage Calculation

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 6.2
D2 (m) 2
T1 (min) 0
T2 (min) 35

Soakage Volume (m³) 0.074

Soakage Area (m²) 1.95

Time (min) 35

Soakage rate (m/sec)	1.81269E-05
Soakage rate (m/day)	1.566163142

Remarks:

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



Geotechnical &
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Associates

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Ware
Herts SG12 7QE

Borehole Soakage Test

Site Newmarket Road, Royston, Herts, SG8 7NJ

Client Countryside Properties

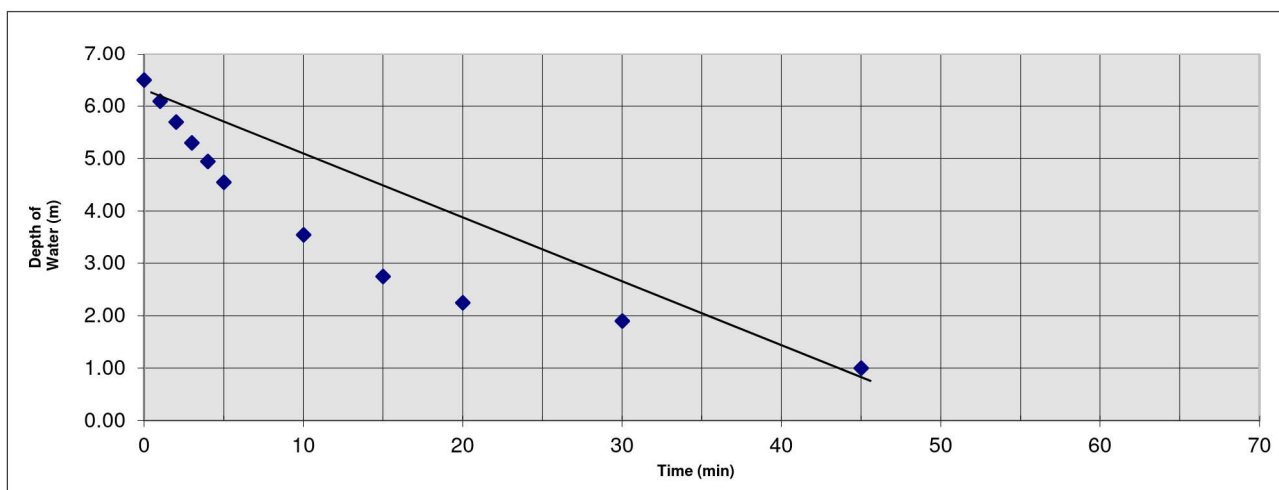
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Soakage Graph

Test No: 1



Remarks:

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



Site Newmarket Road, Royston, Herts, SG8 7NJ

Client Countryside Properties

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Job Number
J16202

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Date: 20 November 2016

Borehole No: 7

Test No: 2

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 10.00

Casing depth (m): 5.00

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 3.5

D2 (m) 1.3

T1 (min) 0

T2 (min) 5

Time (mins)	Depth to Water (m)	Depth of Water (m)
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0	6.10	3.90
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1	7.20	2.80
---	------	------

2	8.00	2.00
---	------	------

3	8.50	1.50
---	------	------

4	8.80	1.20
---	------	------

5	9.00	1.00
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10	9.50	0.50
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15	Sludge	
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Soakage Volume (m³) 0.039

Soakage Area (m²) 1.15

Time (min) 5

Soakage rate (m/sec) 1.12821E-04

Soakage rate (m/day) 9.747692308

Remarks:

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

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Client Countryside Properties

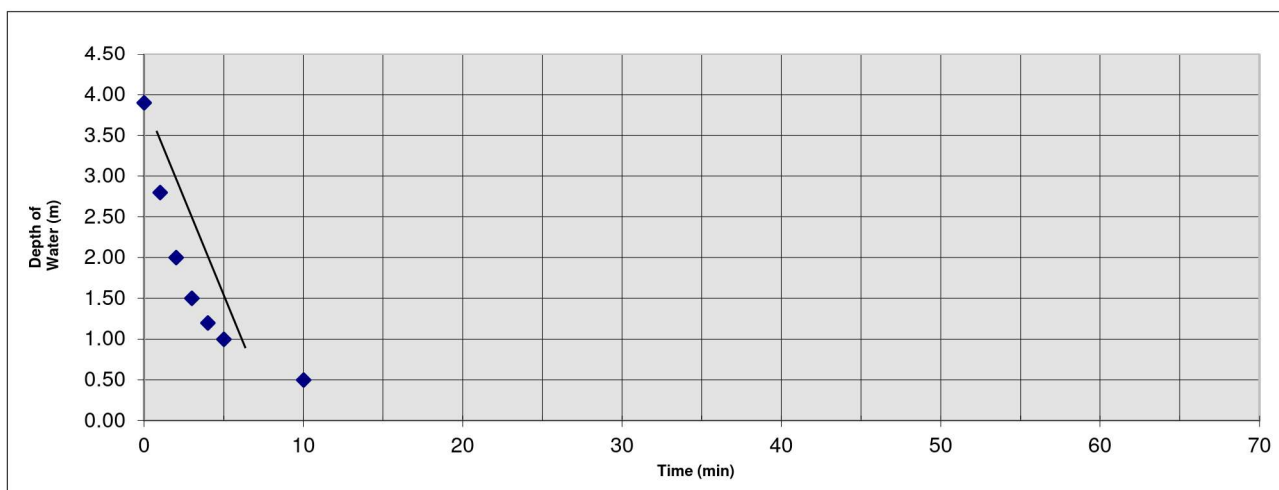
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Soakage Graph

Test No: 2



Remarks:

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



Site Newmarket Road, Royston, Herts, SG8 7NJ

Client Countryside Properties

Engineer

Job Number
J16202

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Date: 21 November 2016

Borehole No: 7

Test No: 3

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 15.00

Casing depth (m): 5.00

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 3.6

D2 (m) 0.8

T1 (min) 0

T2 (min) 15

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	10.50	4.50
1	11.50	3.50
2	12.00	3.00
3	12.50	2.50
4	12.90	2.10
5	13.30	1.70
10	13.90	1.10
15	14.10	0.90
30	14.40	0.60
45	14.50	0.50
60	14.70	0.30

Soakage Volume (m³) 0.049

Soakage Area (m²) 1.05

Time (min) 15

Soakage rate (m/sec) 5.21415E-05

Soakage rate (m/day) 4.505027933

Remarks:

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



Geotechnical &
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Herts SG12 7QE

Borehole Soakage Test

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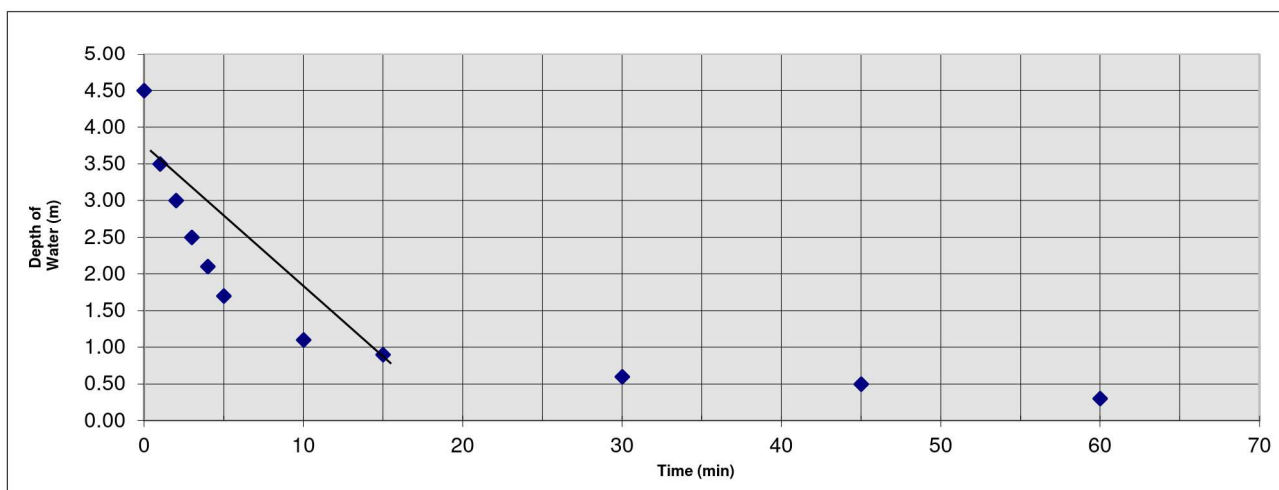
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Soakage Graph

Test No: 3



Remarks:

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



Site Newmarket Road, Royston, Herts, SG8 7NJ

Client Countryside Properties

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J16202

Sheet
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Date: 19 December 2016

Borehole No: 8

Test No: 2

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 10.00

Casing depth (m): 6.20

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m²) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 7

D2 (m) 1

T1 (min) 1

T2 (min) 30

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	1.90	8.10
1	2.90	7.10
2	3.15	6.85
3	3.35	6.65
4	3.60	6.40
5	3.80	6.20
10	4.90	5.10
15	5.90	4.10
20	6.85	3.15
30	8.80	1.20
45	9.55	0.45

Soakage Volume (m³) 0.106

Soakage Area (m²) 1.90

Time (min) 29

Soakage rate (m/sec) 3.20273E-05

Soakage rate (m/day) 2.767161311

Remarks:

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



Geotechnical &
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Associates

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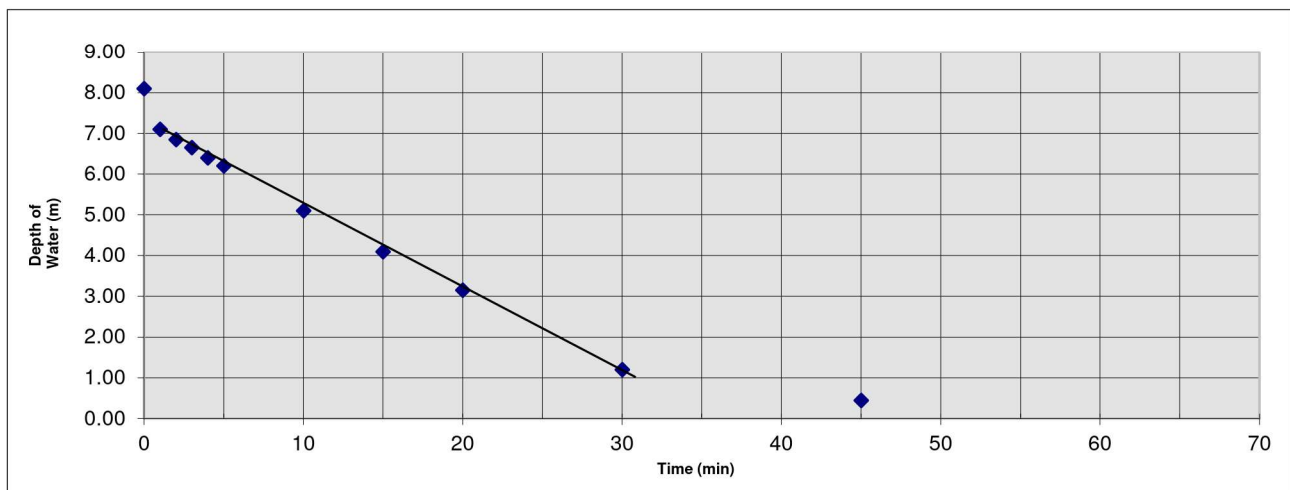
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Soakage Graph

Test No: 2



Remarks:

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



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Client Countryside Properties

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Date: 19 December 2016

Borehole No: 8

Test No: 3

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 15.00

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) 10
D2 (m) 1.9
T1 (min) 1
T2 (min) 10

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	5.00	10.00
2	5.50	9.50
4	6.00	9.00
6	6.40	8.60
8	6.80	8.20
10	7.20	7.80
15	8.20	6.80
20	9.20	5.80
30	10.90	4.10
45	13.10	1.90

Soakage Volume (m³) 0.143

Soakage Area (m²) 2.82

Time (min) 9

Soakage rate (m/sec) 9.39457E-05

Soakage rate (m/day) 8.11691023

Remarks:

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



Geotechnical &
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Borehole Soakage Test

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Client Countryside Properties

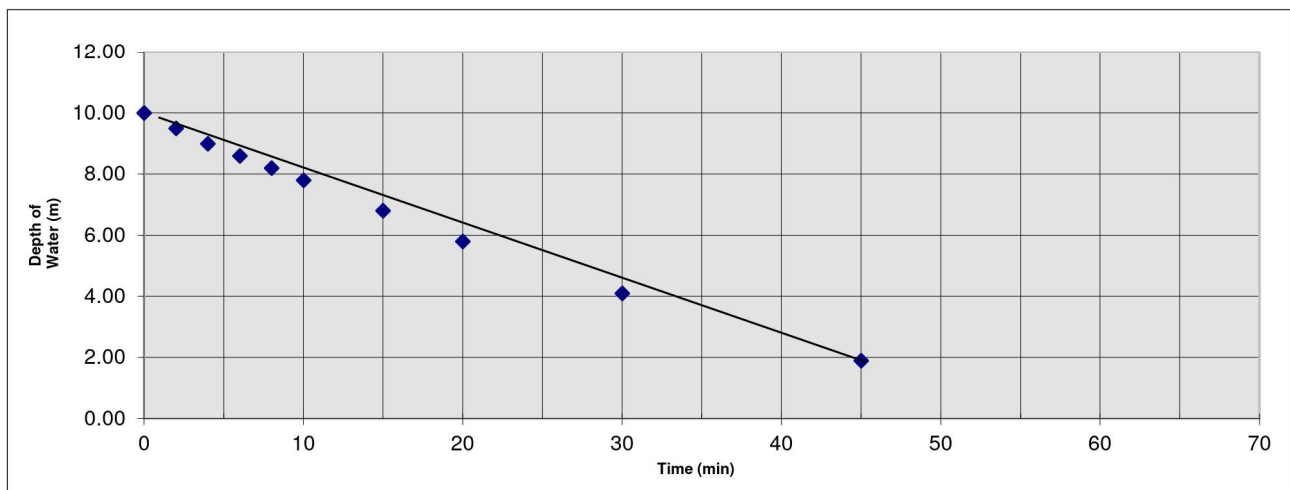
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Soakage Graph

Test No: 3



Remarks:

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



Site Newmarket Road, Royston, Herts, SG8 7NJ

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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 &
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Associates

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Herts SG12 7QE

Borehole Soakage Test

Site Newmarket Road, Royston, Herts, SG8 7NJ

Client Countryside Properties

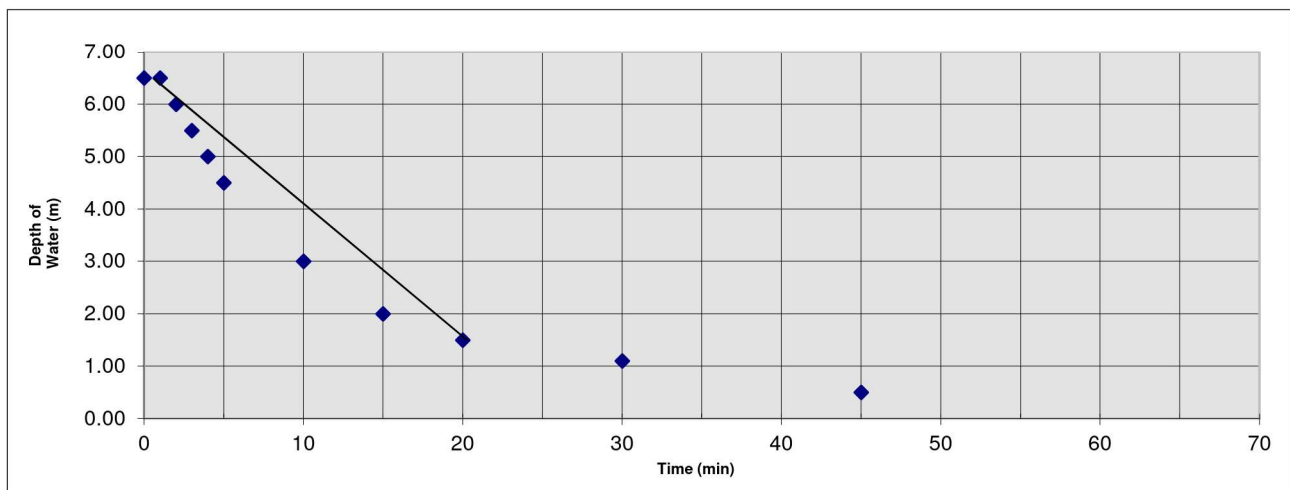
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Job Number
J16202

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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

	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. 22049	Project Name Royston	Programme	
		Samples received	06/12/2016
		Schedule received	06/12/2016
Project No. J16202	Client GEA	Project started	06/12/2016
		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

 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:	11/01/2017
2519	Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)								MSF-5-R18	



	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-R2

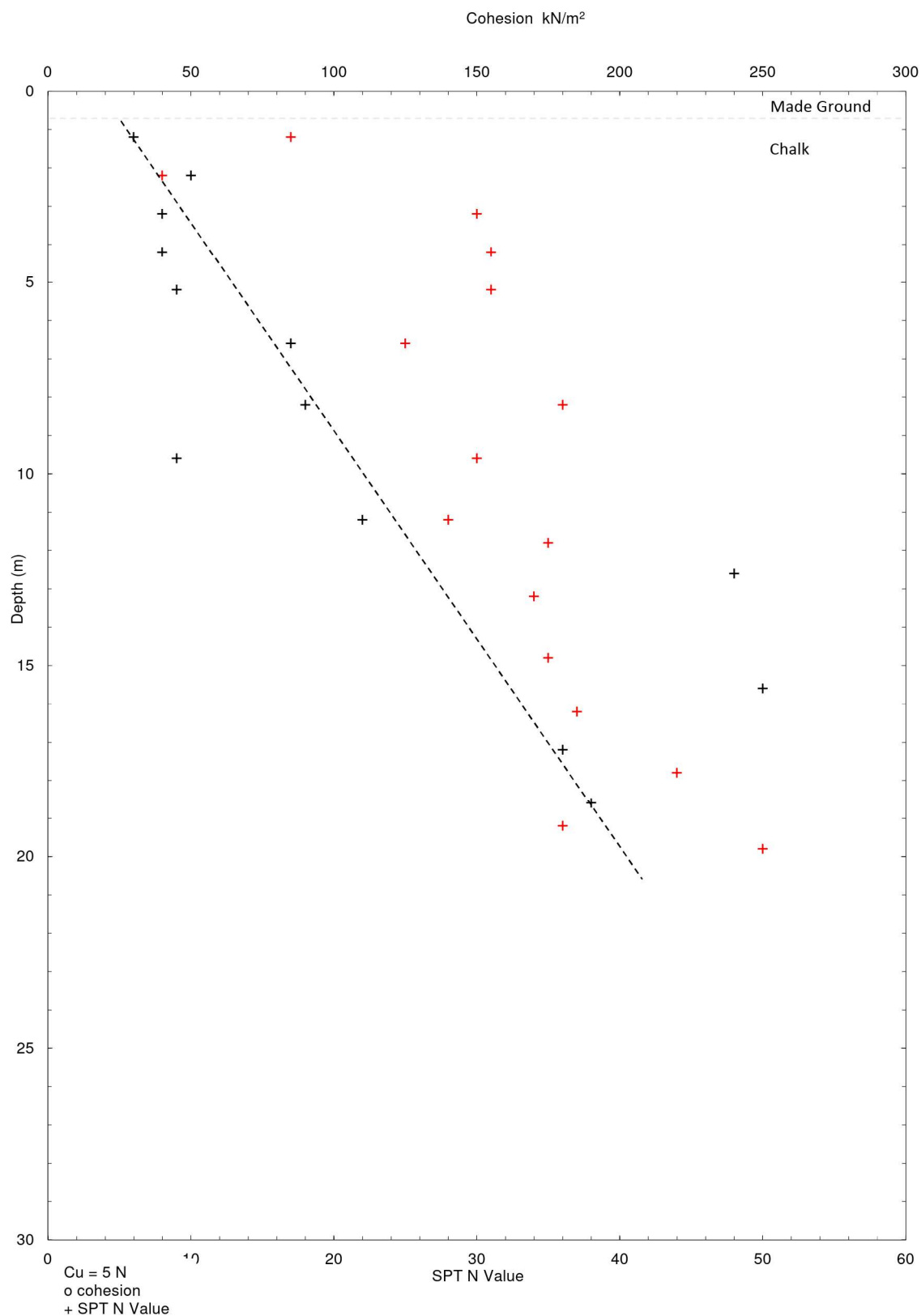
Site Newmarket Road, Royston, Herts, SG8 7NJ

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.