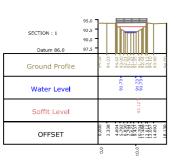
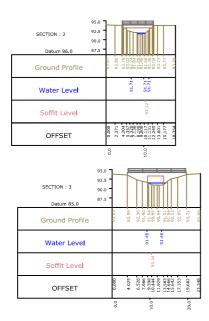
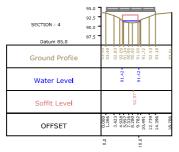
# **RIVER COLE SECTIONS**







SECTION : 5 Datum 83.0	92.5 90.0 87.5 85.0					ſ	Γ	
Ground Profile		61.14	91.00	90,68 90,33	8889 889 889 889 889 889 889 889 889 88	89.42 90.12	90,59	90.86
Water Level					11.68	11.68		
OFFSET		0.000	4.324	$     \begin{array}{c}       2 & 144 \\       8 & 071 \\       8 & 071   \end{array} $	9.702 10.539 11.498	12,645	16.148	19.034
		0.0			10.0			

92.5 90.0 SECTION : 6 87.5 Datum 83.0 85.0	
Ground Profile	90.50 90.17 90.17 89.84 90.02 90.10 90.10
Water Level	89.82
OFFSET	0.000 2.714 2.714 4.124 4.124 8.427 10.276 12.733 12.733
	0.0

SECTION : 7 Datum 83.0	90.0 - 87.5 - 85.0 -		
Ground Profile		89,94	
Water Level			89.27
OFFSET		000'0	5,454 6,502 8,007 8,007 11,045 11,045 11,045 11,045 11,045 11,045 11,045 11,045 11,045 11,045 11,045 11,045 11,045 11,004 13,14 11,007 13,14 13,14 13,14 13,14 13,14 14,14 13,14 13,14 13,14 13,14 14,14 13,14 13,14 14,14 14,14 13,14 14,1414,14 14,14 14,
		0.0	0.0

SECTION : 8 Datum 83.0	90.0 87.5 85.0
Ground Profile	89, 74 89, 74 89, 74 89, 70 89, 70 89, 70
Water Level	89.02
Water Level OFFSET	0.000 4.240 3.345 9.62 3.845 10.253 11.253 14.249 14.249

90.0 SECTION : 9 87.5 85.0 Datum 82.0	
Ground Profile	85,57 89,57 89,18 89,18 89,18 89,18 89,18 89,54 89,54 80,540
Water Level	88.33
Water Level OFFSET	0.000 3.275 5.574 5.574 5.654 6.657 6.657 6.657 6.657 6.657 11.764 11.766 11.706 11.706

SECTION : 10 Datum 82.0	90.0 - 87.5 - 85.0 -			
Ground Profile		89,63	89.54	
Water Level				88.06-
		L		
OFFSET		00010	3.858	7 217 2444 10 255 11 0 255 12 244 13 240 15 310 15 35 15 311 15 35 15 37 20 000 20 000 20 000

SECTION : 11 Datum 82.0	90.0 87.5 85.0			
Ground Profile		89,03	88.77 87.27	89.97
Water Level			87.46	
OFFSET		2.252	5 191 6 8955 6 955 8 965 9 955 9 955 9 926 11 221 11 221 13 596 13 596	20.775

SECTION : 12	90.0 87.5			
Datum 82.0				
Ground Profile		89,15	89,10 88,62 88,14 87,27 887,22 88,20 88,80 88,80 88,99	<b>RB.94</b>
Water Level			87.44	
Soffit Level			89.21	
OFFSET		2.327	5.966 7.003 8.782 8.782 10.024 11.167 11.167 12.641 14.338 15.030	20.790
		0.0	10.0	20.0







SECTION : 13 Datum 82.0	90.0 87.5 85.0	
Ground Profile		89,111 89,111 89,005 88,709 88,768 87,68 87,68 87,68 87,68 87,68 87,68
Water Level		87.46 87.46 87.46
Soffit Level		89.21 - 89.21 - 89.21 - 89.21 -
OFFSET		0.000 3.247 4.957 5501 5501 8.672 11.391 13.800 13.800 13.800
		0.0

	90.0			
SECTION : 14	87.5 -	ſ	Т	
Datum 82,0	85.0 -	ł		
Datum 82.0		_	_	
Ground Profile		80'68	89.06	888.70 888.70 90.0888.80 90.09 889.20 889.20 89.03 80.03 80.03 80.03 80.03 80.03 80.03 80.03 80.03 80.03 80.03 80.03 80.03 80.03 80.03 80.03 80.000 80.000 80.000 80.000 80.000 80.00000000
Water Level				87.45 87.45 87.45
OFFSET		0.000	2.817	5.8594 6.8994 8.128 9.435 11.02333 11.02333 11.02333 11.0233 11.0233 11.0233 11.0233 11.0233 11.0233 12.0233 10.025 10.055 10.00
		0.0		20.0

SECTION : 15 Datum 82.0	90.0 87.5 85.0			T	$\left[ \right]$	]
Ground Profile		88,96	88.38 88.09 87.84	87.29 87.29 88.08	88,85	89.05
Water Level			87.38	87.38		7
OFFSET		6,125	8.420 9.676 10.579		15.955	20.526
		0.0	10.0			20.0

CTION : 16	90.0 - 87.5 -			T	Π	TÍ	1			
Datum 81.0	85.0									
round Profile		16'88	88,85	88.73	87.74	86.87	87,99	88.96	88.97	88.98
Vater Level					87.30	87.30-				
Vater Level		0000	4.724	7.431		13.385 87.30	15 703	17.235	20.000	22.843

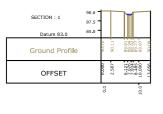
CTION : 17 Datum 81.0	90.0 87.5 85.0 82.5				
ound Profile		38,86	87.66 87.66	86 72 87 24 88 05 88 44	88,43 88,47 88,51
Vater Level			87.16		
			2 02	NOMO	10.01
OFFSET			10.000	12.52 13.43 15.37	20.0 20.000

	90.0 -													
ECTION : 18	87.5 85.0		ſ		7	f	11		7	1	ſ	ſ		
Datum 80.0	82.5	1												
round Profile		88,81	88.79	88.28	87.08	200	802 802 802 802 802 802 802 802 802 802	85.69		86.70	87,85*	88.34	88.66	88,69
Water Level						86.39			86.39-					
Soffit Level						87,95			87.95					
OFFSET		00010	3.785	5.859	000	10.684	-	21	32	19.140		22.380*	24.208	28.158
		0.0				10.0					20.0			

	90.0 -	1				_	
SECTION : 19	87.5 - 85.0 -		T			T	
Datum 80.0	82.5						
Ground Profile		91.88	88.09	87.55 87.31 867.31 866.335 866.355 866	85.32 86.05 87.16	87.89	01.00
Water Level				86.35	86.35 •		
Soffit Level				87.53	87.56		
OFFSET		0000	3.463	6.358 8.006 11.133 11.133 11.133 11.133 11.2554 113.2554 113.2554	16.977 18.133 19.563	22.655	
		0.0		10.0	20.0		

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of the on-site grid.		enable establishmen
Buildings     Overhead C Concrete at Concrete at Co	Gas         Party         Cas           Gas         Party         Quity           gas         Gas         Casily           gas         Gas         Casily           gas         Gas         Casily           gas         Back guity         Party           Pipe         Pipe Down pipe         Pipe above           ame         ML         Manholic           FI         Ficolalipht         Exp           Figure Probability         Figure Probability         Exp <td< th=""><th>IB         Iluminated bolia           Im         Rubbit bin           VP         Vent pip           Im         Cancal Sight           Im         Labox         Labox           Im         State         State           Im         Transhoid level         State           Im         State         State     &lt;</th></td<>	IB         Iluminated bolia           Im         Rubbit bin           VP         Vent pip           Im         Cancal Sight           Im         Labox         Labox           Im         State         State           Im         Transhoid level         State           Im         State         State     <
□ Topographical Su □ Site Engineerin □ Utility / CCTV Su	ng rveys Rowan Hous Duffield Roa Little Eator Derby DE21 5DR	asured Building Surve 3D Laser Scanning Revit & BIM Models Se ad
admin www Quill House 91 High Street Markyate St Albans AL3 8JG	n@greenhatch-grou v.greenhatch-group Newcastle 24 Riverside Studic Amethyst Road Newcastle Bus. Par Newcastle-U-Tyne NE4 7YL	up.co.uk .co.uk Poland ul. Panewnicka 9 40-761 Katowice Poland
PROJECT	t. (01912) 736391 f. (01912) 738557 Peter Bre Associate stern Villa Swindor	www.greenhatch tt es
TITLE	Section Survey	
SCALE A2@ 1: 10		DATE Oct 2013
DRAWN SS		QUALITY REF
Level datum Grid orientation	OS GNSS OS GNSS	
Job number	18442	
Drawing No. 184	42 SECT	TIONS 0
Comments This plan should onl purpose. Greenhatci for this plan if supplie the original client.	y be used for its or Group accepts n	riginal o responsibility

# Brook A





SECTION : 3	90.0 • 87.5 •	
Datum 83.0	85.0	
Ground Profile		89,972 89,972 89,972 89,973 89,973 89,973 89,973 89,973 89,973 80,975 80
OFFSET		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		0.0 10.0

90 SECTION : 4 87 Datum 83.0	.5 -
Ground Profile	90.05 89,95 88,947 88,947 89,52 89,52 89,52 89,52 89,52 89,52 89,52 89,52 89,52 89,52 89,52 89,52 89,52 89,52 89,52 80,5
OFFSET	0.000 2.301 5.235 6.9483 6.9483 6.9483 10.7322 10.7322 11.7322 11.262 11.262 11.262 11.262 11.262
	0.0

SECTION : 5	90.0 87.5	ſ		7	ſ	ſ		Π		
Datum 83.0	85.0	t								
Ground Profile		16.68	89.89	89.94	88,84	90,03	89.81	89.65 89.84	10.00	89.76
OFFSET		000.0	2.668	3.028	6.251	8.161	10.019	11 313		20.972
OFFSET		000.0	2.668	3.028	6.251	8.161	10.0 10.019			20.0

SECTION : 6	90.0 - 87.5 -	-		
Datum 83.0	85.0 -			
Ground Profile		89.74	89.72 89.71 89.53 89.17 89.17	89.75
OFFSET		0.000	6.392 7.672 9.481 10.544 11.663 13.728	20.000
		0.0	10.0	20.0

SECTION : 7 Datum 83.0	90.0 87.5 85.0			1	
Ground Profile		89.82	89.77 89.70	89,36	89,81
OFFSET		0.000	2.920	6.254	10.000
		0.0			10.0

SECTION : 8	90.0 - 87.5 - 85.0 -			M	
Datum 83.0	0510				
Ground Profile		89,82	89.74	89.58 88.68 89.54	89.51
OFFSET		0.000	3.111	5.186 6.169 7.863	0.0 11
		0.0			10.0

SECTION : 9	90.0 - 87.5 -	ŀ	
Datum 83.0	85.0 -		
Ground Profile		57.48	89.72 89.26 89.56 89.56 89.56
OFFSET		0,000	4.077 5.904 6.921 9.895 11.776
		0.0	10.0

SECTION : 10 Datum 83.0	90.0 87.5 85.0			
Ground Profile	89'68	89,63	888888 88888 88888 88888 88888 88888 8888	89.62
OFFSET	000.0	3,977	6.452 8.355 9.365 10.302 11.778	17 974
	0.0		10.0	

	0.0		0.0	
OFFSET	0.000	3.952	7,159 8,381 9,187 10,162 11,831	10 207
Ground Profile	89.46	89,45*		30.00
Datum 83.0 85.0	1			
90.0 SECTION : 11 87.5	7			

	SECTION : 12	90.0 87.5	-
_	Datum 83.0	85.0	
	Ground Profile		0.0588888888888888888888888888888888888
	OFFSET		0.000 2.201 3.751 5.617 5.617 5.262 5.262 5.262
-			0.0

SECTION : 13 Datum 82.0	90.0 87.5 85.0				
Ground Profile		88.80	88,90	888888991 88888991 88889991 88889991 88889991 88889991 8889991 8889991 8889991 89991 899 899	88.70
OFFSET		0.000	2,883	5,471 9,563 9,2319 10,280	16.022
		0.0		10.0	

SECTION : 14 Datum 82.0	90.0 87.5 85.0
Ground Profile	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
OFFSET	0 000000000000000000000000000000000000
	0.0

Ground Profil
OFFSET
SECTION : 3
Datum 85.0

SECTION : 1

Ground Profile

OFFSET

Ground Profile
OFFSET

SECTION : 4
Datum 85.0
Ground Profile
OFFSET

SECTION : 5
Datum 84.0
Ground Profile
OFFSET

SECTION : 6
Datum 84.0
Ground Profile
OFFSET

# Brook B









	92.5		_		
	90.0				
	87.5	1			
	85.0				
file		90.70	90.64 90.64 89.51 89.54	90.77	90.74
		0.000	5 157 6 411 7 363	10.000	13,401
		0.0		10.0	_

92.5 <b>-</b> 90.0 <b>-</b>	$\left  \right $			1
87.5 85.0	0.45	90.31 90.06 89.44	0.40	
	0.000	3.180 3.894 5.185 6.623 8.623		
	0.0		0.01	

SECTION : 7 Datum 85-0	92.5 90.0 87.5			11
Ground Profile		90.48	90.39 90.31	90.42 90.53 90.57
OFFSET		0.000	4.350	7.888 8.540 10.000 12.610
		0.0		10.0

SECTION : 8 Datum 83.0	92.5 - 90.0 - 87.5 - 85.0 -			
Ground Profile		90.33	90.36 90.36 88.82 88.82 90.15	90.18
OFFSET		0.000	5.675 6.357 8.469 9.409 10.477	17,454
		0.0	10.0	

SECTION : 9	90.0 87.5			
Datum 84.0	85.0 -			
Ground Profile		90,02	90.10 90.02 89.89 89.95	89.97* 89.97
OFFSET		000'0	9.639 10.593 13.334 14.060	20.000
		0'0	10.0	20.0

SECTION : 10	90.0 -	i	M	
0001101110	87.5 -	1		
Datum 83.0	85.0			
Ground Profile		10'06	90.08 89.81 88.93 89.87 89.97	89.97 89.96
OFFSET		0.000	9.966 10.941 12.433 13.861 14.402	20.000
		0.0	10.0	20.0

SECTION : 11	90.0 • 87.5 •		~	1	
Datum 83.0	85.0	1			
Ground Profile		89.70	89.65 89.64 88.78	89.61	89,66
OFFSET		0.000	5.095 5.457 7.020	9,257	13.802
		0.0		10.0	

SECTION : 12	90.0 • 87.5 •	$\left[ \right]$	ſ	ľ	1	Γ	]
Datum 83.0	85.0	1		Ш			
Ground Profile		89'68	89.71	88.47	89.59	89.66	
OFFSET		0'000	3.595	4.953	7.576	9.075	
		0.0				10.0	-

SECTION : 13 Datum 83.0	90.0 87.5 85.0		$\uparrow$		
Datum 83.0		<u> </u>	_		-
Ground Profile		89.61	89,64	88.14 888.14	89,59
OFFSET		0.000	6.721	9.411 19.313	15.046
		0.0		10.0	

SECTION : 14 Datum 83.0	90.0 87.5 85.0			
Ground Profile		89.49	89.46 89.00 88.28	89.44 89.38
OFFSET		0.000	4.683	9.035 12.836
		0.0		10.0

SECTION: 15	90.0 - 87.5 -		M
Datum 83.0	85.0		
Ground Profile		89.45	89.10 89.17 89.17 89.31 89.32
OFFSET		1.704	5.845 6.641 8.305 10.536 15.697
		0.0	10.0

SECTION : 16 Datum 83.0	90.0 87.5 85.0	]	T	T	
Ground Profile		89.46	89,42	88 89 89 32 89 32 89 32 89 32 89 32 89 32 89 32 80 32 80 32 80 32 80 32 80 32 80 32 80 80 80 80 80 80 80 80 80 80 80 80 80	89.33
OFFSET		0.000	4.278	6.262 7.566 8.526 9.119	14.151
		0.0		10.0	

SECTION : 17	90.0 87.5 85.0			T	Д	Γ		
Datum 82.0						11		
Ground Profile		89.29	89,29	89.31	87.90	89.29	89.25	89.29
OFFSET		0.000	2.341	4.741	7,106	9,662	13.027	15.744
		0.0				10.0		

SECTION : 18 Datum 82.0	90.0 87.5 85.0		$\uparrow$	Ĭ		
Ground Profile		89.21	89,29	87.97 87.97	89.26	89,23
OFFSET		0.000	4.744	7 357 8 664	10.287	18,491
		0.0			0.01	

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		Ý		
Note:				
Some services may I The Ordnance Surve OS Buildings	ey tile is to		a guide	
This survey has been (O.S) National Grid (1	n orientate	d to the Ord	nance S	
Systems (GNSS) and A true OSGB36 coor site centre via a trans	d the O.S. dinate has	Active Netw been estab	ork (OS lished n	Net). ear to the
transformation mode The survey has been or more OSGB36 poi bearing for angle orig	i correlateo ints establi			
No scale factor has b coordinates shown a which have a scale fa	oeen applie re arbitrary	& not true		
Please refer to Surve of the on-site grid.	ey Station	Table to ena	ble esta	blishment
		Leg	end	:
Buildings Overhead Ca Wall Concrete ec Kerb line Tarmac ed	ige Pinv ge Gy	Inspection chambe Pipe invert Gully	IB	Bollard Illuminated bollard Rubbish bin
Line marking Grass verg Drop kerb Canopy/Over Centre line Verge		Back gully Down pipe Pipe above ground	Grl	Vent pipe Ground light Letter box
▲ 1 Station and Na 100.000 Station Level	WL	Manhole Water level	Ldr Sty	Ladder Stile
Tree / Bush / S	Тр	Flood light Lamp post Telegraph post	THL	Internal floor level Threshold level Sign post
R: Ridge Level	Ep TI Bus	Electricity post Traffic light Bus stop		Trialhole Borehole Electric
E: Eaves Level F: Flat Roof Level	Sv St	Stop valve Stop tap	BT C'box	British Telecom Control box
Fence types:	Er Wm Gas	Earth rod Water meter Gas valve	BP	Tactile Brick paved Concrete paving slabs
NR Iron Railings	Av ICU Wo	Air valve Undentified inspect Wash out	CVR ion IC	Cover Inspection chamber
PW Post & Rail	Re BB	Rodding eye Belisha beacon	UTL	Retaining wall Unable to lift Tree canopy level
WIP Wooden Pane CIP Concrete Pane	IVIKI	Cable tv Marker post Gas marker post	MG	Girth Multi girth Tree Stump
S\P Steel Palisade		Soffit	CL: IL:	Cover level
Rev Date	Descr	iption	Dra	wn Q. Ref,
gree	enł	nat	cł	
Topographical Sur	81 rveys	□ Measu	red Build	ling Surveys
Site Engineerir     Utility / CCTV Sur		🗆 Rev	Laser S /it & BIM	f Models
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Tel (01332) 8300-	Little De DE21	rby 5DR <sub>Fax (01</sub>	.332) 83	0055
Tel (01332) 8300 admir	Little De DE21 44 1@greenha greenhate	rby 5DR	o.uk	0055
Tel (01332) 8300 admir www St Albans Quill House 91 High Street Markvate	Little De: DE21 44 @greenhat greenhat %greenhat Newcastle 24 Riversi Amethy Newcastle	rby 5DR Fax (01 tch-group.co. th-group.co. th-group.co. the Studios st Road Bus. Park	o.uk uk Poland ul. Par 40-76	0055 newnicka 91 11 Katowice Poland
Tel (01332) 8300- admir www St Albans Quill House 91 High Street	Little De DE21 44 @greenhat .greenhato Newcastle 24 Riversia Amethy Newcastle Newcastle	rby 5DR Fax (01 tch-group.cc. th-group.cc. th-group.cc. the Studios st Road Bus. Park e-U-Tyne 7YL ) 736391	p.uk uk Poland ul. Par 40-76 t. 0048	newnicka 91 51 Katowice Poland 32 202 2292
Tel (01332) 8300- admir www St Albans Quill House 91 High Street Markyate St Albans AL3 8JG t. (01582) 842745 f. (01582) 842745 f. (01582) 842745 f. (01582) 842745	Little De DE21 44 @greenhate .greenhate .greenhate 24 Riversh Amethy Newcastle 24 Riversh Newcastle Newcastle Newcastle 1 (01912 f. (01912)	rby 5DR Fax (01 tch-group.co. tch-group.co. de Studios st Road Bus. Park e-U-Tyne 7YL ) 736391 738557	p.uk uk Poland ul. Par 40-76 t. 0048	newnicka 91 61 Katowice Poland
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Tel (01332) 8300. admir www St Albans Quil House 91 High Street Markyate St Albans AL3 8JG t. (01582) 842745 f. (01582) 842756 f. (01582) 842756 f. (01582) 842756 f. (01582)	Little De DE21 44 .greenhat .greenhat .greenhat 24 Riversi Amethy Newcastle 24 Riversi Amethy Newcastle 14 Comparison NE4 Comp	rby 5DR Fax (01 tch-group.cc.) de Studios st Road Bus. Park e-U-Tyne 7YL 9 7363557 Brett ciates Villago adon	o.uk uk Poland ul. Pai 40-76 t. 0048 www.g	newnicka 91 51 Katowice Poland 32 202 2292
Tel (01332) 8300. admir www St Albans Quill House 91 High Street Markyate St Albans AL3 8JG t. (01582) 842745 f. (01582) 842755 f. (01582)	Little De DE21 44 regreenhat regreenhat regreenhat 24 Riversi Amethy Newcastle Newcast	rby 5DR Fax (01 tch-group.cc. de Studios st Road Bus. Park e-U-Tyne 7YL 0 7368557 Brett ciates Village don	o.uk uk Poland ul. Pai 40-76 t. 0048 www.g	newnicka 91 31 Katowice Poland 32 202 2292 greenhatch.pl
Tel (01332) 8300. admir www St Albans Quil House 91 High Street Markyate St Albans AL3 8JG t. (01582) 842745 f. (01582)	Little De DE21 44 (gereenhat (greenhat (greenhat (greenhat Newcastle Newcast	rby 5DR Fax (01 tch-group.cc.) de Studios st Road Bus. Park e-U-Tyne 771 738557 Brett ciates Village adon tion vey	Dand UL Paland UL Paland UL Paland t. 0048 www.g	newnicka 91 11 Katowice Poland 32 202 2292 greenhatch.pl
Tel (01332) 8300. admir www St Albans Quill House 91 High Street Markyate St Albans AL3 8JG t. (01582) 842745 f. (01582)	Little De DE21 44 (gereenhat (greenhat (greenhat (greenhat Newcastle Newcast	rby 5DR Fax (01 tch-group.cc) de Studios st Road Bus. Park e-U-Tyne 771 0 738391 738557 Brett ciates Village don tion vey QU,	DATE DATE DATE DATE Ct 20	newnicka 91 11 Katowice Poland 32 202 2292 greenhatch.pl
Tel (01332) 8300. admir www St Albans Quil House 91 High Street St Albans AL3 8JG t. (01582) 842745 f.	Little De DE21 44 Regreenhat greenhat 24 Riversi Amethy Newcastle 24 Riversi Amethy Newcastle 14 (01912) Peter Assoc Stern Swin Sec Sur 20	rby 5DR Fax (01 tch-group.cc) de Studios st Road Bus. Park e-U-Tyne 771 738557 Brett ciates Village idon tion vey QU, 255	DATE DATE DATE DATE Ct 20	newnicka 91 11 Katowice Poland 32 202 2292 greenhatch.pl
Tel (01332) 8300. admir www St Albans Quil House 91 High Street St Albans AL3 8JG t. (01582) 842745 f.	Little De DE21 44 Degreenhat .greenhat ?greenhat ?greenhat ?amethy Newcastle ?amethy Newcastle ?amethy Newcastle ?amethy Newcastle .t (01912) Peter Assoc Stern Swin Sec Sur	rby 5DR Fax (01 tch-group.cc) de Studios st Road Bus. Park e-U-Tyne 771 738557 Brett ciates Village idon tion vey QU, 255	DATE DATE DATE DATE Ct 20	newnicka 91 11 Katowice Poland 32 202 2292 reenhatch.pl
Tel (01332) 8300. admir www St Albans Quil House 91 High Street St Albans AL3 8JG t. (01582) 842745 f.	Little De DE21 44 .greenhat .greenha	rby 5DR Fax (01 tch-group.cc) de Studios st Road Bus. Park e-U-Tyne 771 738557 Brett ciates Village idon tion vey QU, 255	DATE DATE Ct 20 DATE DATE Ct 20	newnicka 91 11 Katowice Poland 32 202 2292 greenhatch.pl
Tel (01332) 8300. admir www St Albans Quill House 91 High Street St Albans AL3 8JG t. (01582) 842745 f. (01582) 842745 f	Little De DE21 44 (greenhat 24 Riversis Ametriy Newcastle 24 Riversis Ametriy Newcastle 24 Riversis Ametriy Newcastle NEW 24 Riversis Ametriy Newcastle 24 Riversis Ametriy Newcastle 24 Riversis Ametriy Newcastle 24 Riversis Ametriy Newcastle 24 Riversis Ametriy Newcastle 24 Riversis Ametriy Newcastle NEW 25 Riversis Ametriy Newcastle 26 Riversis Surr 20 0 0 0 S GNS 0 S GNS 0 18442	rby 5DR Fax (01 th-group.cc) de Studios st Road Bus. Park e-U-Tyne 771 0 736391 738557 Brett ciates Villag don tion vey 0 QU, as ss ECTIC	DATE Ct 20 DATE DATE Ct 20 DNS	newnicka 91 11 Katowice Poland 32 202 2292 greenhatch.pl 13 REF
Tel (01332) 8300 admir www St Albans Quil House 91 High Street St Albans AL3 8JG t. (01582) 842745 f.	Little De DE21 44 Ogreenhat .greenha	rby 5DR Fax (01 tch-group.cc) de Studios st Road Bus. Park e-U-Tyne 771 Brett ciates Village idon tion vey 0 QU ass ss ECTIC	DATE DATE Ct 20 DATS DATE Ct 20 DATS al ponsibl	newnicka 91 11 Katowice Poland 32 202 2292 greenhatch.pl 13 REF Rev. 0

# LIDEN BROOK SECTION

	92.5
SECTION : 19	90.0
	87.5
Datum 84.0	85.0
Ground Profile	
Water Level	
OFFSET	

6.683 8.875 8.875 10.266 11.0285 11.0285 11.0285 11.0385 11.0385 11.0892

89.27 

10.0

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SECTION : 20	92.5
Datum 84.0	85.0 -
Ground Profile	90.92 90.92 90.78 90.65 90.65 91.12 91.12
Water Level	89.77
OFFSET	2.124 2.124 5.215 6.2119 6.2119 9.335 9.355 9.5555 9.5555 9.5555 9.5555 9.5555 9.5555 9.5555 9.5555 9.55555 9.5555 9.5555 9.5555 9.5555 9.5555 9.55555 9.55555 9.55555 9.55555 9.55555 9.5
OFFSET	0.0 2.124 5.1124 5.1124 5.112 5.112 5.112 5.112 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.124 5.125 5.124 5.124 5.125 5.124 5.125 5.124 5.125 5.124 5.125 5.124 5.125 5.125 5.124 5.125 5.124 5.125 5.124 5.125 5.124 5.125 5.124 5.125 5.124 5.125 5.124 5.125 5.124 5.125

SECTION : 21	92.5 90.0 87.5
Datum 84.0	85.0 -
Ground Profile	90,242 90,242 90,342 91,09 91,19 91,19 91,19 91,19 91,19
Water Level	89.59
OFFSET	0.000 2.887 2.887 5.234 5.234 5.234 9.620 9.620 9.620

	9
SECTION : 22	90
	8
Datum 84.0	8
Ground Profile	
Water Level	
OFFSET	

	92.5
SECTION : 23	90.0
	87.5
Datum 84.0	85.0 -
Ground Profile	90.37 90.42 90.42 90.42 90.55 90.51
Water Level	89.20 89.20
OFFSET	0.000 2.936 4.796 6.913 6.913 8.129 8.129 9.163 11.050

SECTION : 24 Datum 83.0	90.0
Ground Profile	90,000 90,0000 90,0000 90,0000 90,0000 90,0000 90,0000 90,0000 90,0000 90,0000 90,0000 90,0000 90,00000 9
Water Level	88.98
OFFSET	5.467 5.467 8.096 10.045 11.1212
	0.0

SECTION : 13	92.5 90.0		Τ			Т	
Datum 85.0	87.5						
Ground Profile		24.47	91.64*	5810 1000	90.85 91.32 91.54	91.57*	
Water Level				90.43	90.43		
OFFSET		0.000	3,901	0000	2226	14.307	
		0.0			10.0		

SECTION : 14	92.5
Datum 84.0	85.0
Ground Profile	91.41 91.28 91.20 91.12 91.29 91.29
Water Level	90.18
OFFSET	5.006 5.006 3.3554 9.3552 9.3552 10.850 10.850 13.052 13.052

SECTION : 15	92.5 90.0 87.5
Datum 84.0	85.0
Ground Profile	91.48 91.36 91.16 91.16 91.15 91.33 91.33 91.33 91.35
Water Level	90.10
OFFSET	0.000 3.160 3855 3855 3855 3855 3355 9.535 8.44
	0.0

	92.5 -	
SECTION : 16	90.0 -	
	87.5	
Datum 84.0	85.0	
Ground Profile		91.27 91.28 91.28 99.94 99.94 91.33 91.33
Water Level		90.07
Soffit Level		91,35+
OFFSET		0.000 3.662 5.787 5.787 5.628 6.628 6.628 6.628 9.597 10.588 11.588
		0.0

SECTION : 17 Datum 84.0	92.5 90.0 87.5 85.0	
Ground Profile	03,0	
Water Level		90.03
Soffit Level		91.30*
OFFSET		0.0 4 10 10 10 10 10 10 10 10 10 10 10 10 10
		0.0

SECTION : 18 Datum 84.0	92.5
Ground Profile	91,05 91,05 90,35 90,35 91,09 91,09 91,09 91,09 91,09
Water Level	- 56-68 - 68
OFFSET	0.000 2.922 3.399 5.399 5.399 7.375 7.375 7.375 7.375 7.336
	0.0

SECTION : 7	95.0 92.5 90.0	-	
Datum 86.0	87.5	1	
Ground Profile		93,12	93 83 951 477 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Water Level			91.57
OFFSET		0000	2 230 2 20 2 2
		0.0	10.0

SECTION : 8	92.5 <b>-</b> 90.0 <b>-</b>	İ	Τ		
Datum 86.0	87.5	1			
Ground Profile		92,65	92.71	92.67 92.16 92.16 92.16 92.10 92.10	92.46
Water Level				91.44 <b>-</b> 91.44 -	
OFFSET		000'0	4.004	6.786 8.744 8.744 10.658 11.658	16 397
		0.0		10.0	_

SECTION : 9	92.5	
Datum 85.0	0/15	
Ground Profile	92.27 92.27 91.13 91.13 92.03 92.16	92.09
Water Level	91.24	
OFFSET	0.000 3.071 5.085 6.067 7.567 11.589 11.589	15.227
	0.0	-

SECTION : 10 Datum 85-0	92.5 90.0 - 87.5 -			
Ground Profile		10'76	91.97 91.51 921.51 921.93	92.15
Water Level			90,95	
OFFSET		0000	5 909 8 611 9 566 10 9566 12 302 14 227	19 012
		0.0	0.0	

SECTION : 11 Datum 85.0	92.5 90.0 87.5		Τ	
Ground Profile		\$8'16	95'16	91,92 90,55 90,55 91,55 91,73 92,05 92,05
Water Level				90.76 90.76
OFFSET		000'0	3,586	6,815 8,885 8,788 10,011 11,227 11,227 11,227 12,500 13,562
		0.0		10.0

SECTION : 12	92.5 90.0	Τ		
Datum 85.0	87.5			
Ground Profile	09'16	65.19	91.28 91.49 91.85 91.85 91.85	89 16
Water Level			90.56	
OFFSET	000'0	3.332	8.044 9.200 10.925 12.544 13.740	16.867
	3		10.0	20.0

	97.5
SECTION : 1	95.0
Datum 88.0	90.0 -
Ground Profile	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Water Level	94.14
Soffit Level	95.36 - 95.37 - 95.37 -
OFFSET	0 000 0
	0.0

SECTION : 2 Datum 87.0	95.0 92.5 90.0
Ground Profile	93, 76 93, 62 93, 62 93, 93 93, 93 93, 93 93, 64 93, 64 93, 64 93, 64 93, 64 93, 64 93, 64 93, 64
Water Level	92.40*
	0.000 3.451 5.4481 5.4481 9.255 9.2555 11.925 11.925 14.148 14.148 14.148
OFFSET	0 440,00,000114 0

	95.0 -	L	_	_			
SECTION : 3	92.5 <b>-</b> 90.0 <b>-</b>	1					
Datum 86.0	87.5						
Ground Profile		93,62	93.72	93.61	366	92 89 93 34	03. KK
					_		
Water Level					92.19		
Water Level OFFSET		0.000	2.505	4.365 5 804	mort	10.0 10.630	16.600

	95.0		
SECTION : 4	92.5		
	90.0		
Datum 86.0	87.5		
Ground Profile		96,59	93,63 93,57 93,57 92,28 92,28 92,28 92,28 92,28 93,13 93,13 93,13 93,13 93,13 93,13 94,13 94,13 94,13 94,13 95,13 95,13 94,13 95,150,150,150,150,150,150,150,150,150,15
Water Level			92.01
OFFSET		000'0	4.907 6.197 8.497 8.497 8.497 10.2565 11.372 12.372 13.748 13.748 13.748 13.748
		0.0	.0.0

	95.0 <b>T</b>
SECTION : 5	92.5
Datum 86.0	87.5
Ground Profile	93.23 93.33 93.05 93.05 93.11 93.21 93.21
Water Level	-66'16 -66'16
OFFSET	0.000 2.978 5.184 6.333 6.333 5.033 5.033 5.033 5.033 5.827 11.682 11.682
-	0.0

	95.0 <b>]</b>
SECTION : 6	92.5
Datum 86.0	87.5
Ground Profile	9 2 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 9 2 1 2 9 9 9 2 1 2 9 9 9 9
Water Level	91.70
OFFSET	0.000 3.384 5.553 5.555 5.553 5.5555 5.555 5.5555 5.5555 5.5555 5.5555 5.5555 5.5555 5.55555 5.55555 5.55555 5.555555

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of the on-site grid.			e ve el c	
Buildings Wall Kets Inne Line marking Drop kerb 1000,000 Station Leve Cancopy/O	edge Pinv edge Gy erge Gy erge Gy erge Gy erge Gy Pipe Name MH MH MH MH MH MH MH MH MH MH Sv Er Wm Sv Sv Er Wm Sv Sv Er Wm Ss Sv Sv Sv Er Wm Ss St St St St St St St St St St St St St	Legg Inspection chamber Pipe invert Guly Back guly Down pipe Pipe above orgonar Manhole Pipe above orgonar Manhole Fipod light Fipod light Electricity post Traffic light Bios stop Stop valve Stop valve Sto	IB     Illuminated bollard       Bin     Rubbish bin       Vp     Nubbish bin       Vp     Vent pipe       GGI     Ground light       Lbox     Letter box       Lift     Ladder       Sity     Sile       IFL     Internal floor level       TH     Trashold level       BH     Borshole       ELC     Electric       BT     British Telecom       Cbox     Control box       TT     Tacille       BP     Brick paved       CPS     Concrete paving site       CVR     Cover	
Rev Date	Rev Date Description Drawn Q. Ref greenhatch			
☐ Site Engineer ☐ Utility / CCTV Su Tel (01332) 830	Rowan Duffield Little DE21	□ Rev House I Road Eaton rby 5DR	Laser Scanning vit & BIM Models	
	in@greenha w.greenhatc 24 Riversie Amethy Newcastle Newcastle NE4 t. (01912) f. (01912)	h-group.co. le Studios st Road Bus. Park e-U-Tyne 7YL ) 736391		
CLIENT	Peter Assoc			
PROJECT Ea	Eastern Villages Swindon			
TITLE	Sect Sur			
SCALE A2@ 1: 10 DRAWN	SCALE         DATE           A2@ 1: 1000         Oct 2013			
SS	OS GNS	s		
Grid orientation Job number Drawing No.	OS GNS 18442		Rev.	
184	142_SI	ECTIC	al	
Comments This plan should or purpose. Greenhatd for this plan if suppi the original client. All dimensions shou to design and consi Drainage informatic	ch Group ac lied to any p uld be check truction.	cepts no re arty other ti ced on site j	han prior	

SECTION : 25 Datum 83,0	90.0	
Ground Profile	89.157 90.02 89.85 88.53 89.53 89.79 90.06 90.07	
Water Level	685.88 685.88 685.88	
OFFSET	0.000 5.534 7.767 9.010 9.010 11.1811	
	0.0	

SECTION : 26	90.0
Datum 82.0	
Ground Profile	6 6 6 6 6 6 6 6 7 7 1 6 7 7 7 1 6 7 7 7 7
Water Level	- 16'28
Water Level	~ ~ ~
OFFSET	0.000 6.2299 6.2299 11.6615 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 14.12 13.224 14.12 14

SECTION : 27 Datum 82.0	90.0 87.5 85.0			
Ground Profile		79'68	889 899 883 883 883 883 883 883 883 883	89.34 89.37 89.39
Water Level			87.83	
OFFSET		0.000	7.591 9.368 9.368 9.368 9.368 9.368 10.780 11.5082 11.5082	17.786 20.000 22.020
		0.0	10.0	20.0

SECTION : 28 Datum 82.0	90.0 87.5 85.0		Γ	
Satulii 82.0	_	-	-	
Ground Profile		97°68	89.19	200 000 0 11000000000000000000000000000
Water Level				87,73
Water Level OFFSET		0.000	4.361	6.718 9.672 9.672 10.659 11.659 12.659 12.659 12.659 12.659 12.659 12.659 12.659 12.6566 12.6566 12.6566 12.6566 12.6566 12.6566 12.6566 12.6566 12.6

SECTION : 29 Datum 82.0	90.0 87.5 85.0			
Ground Profile		89,13	89,00 87,60 87,60 88,57 88,57 88,57 89,57 89,57 89,57 89,57 89,57 80,57 80,57 80,57 80,57 80,57 80,57 80,57 80,57 80,500 80,5000 80,5000 80,500 80,5000 80,50000000000	
Water Level			87,72	
OFFSET		0.000	5,488 6,749 8,245 9,625 11,412 12,888 12,888	
		0.0	10.0	

SECTION : 30 Datum 82.0	90.0 87.5 85.0				]
Sutuin 02.0		<u> </u>	_	┈┈┈╨┼┼╴	-
Ground Profile		90'68	60.68	89.16 87.78 87.72 87.72 87.72 88.98	89.12
Water Level				87.67	
Soffit Level				89,02 *	
OFFSET		000.0	4.925	8.767 10.494 11.038 12.640 13.757 15.220 16.647	19.696
		0'0		10.0	

SECTION : 31 Datum 82.0	90.0 87.5 85.0
Ground Profile	8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9
Water Level	87.67 87.67
Soffit Level	89.18 -
OFFSET	0.000 5.815 9.678 9.678 9.678 1.680 1.880 1.1.8800 1.1.8800 1.1.8800 1.1.8800 1.1.880000000000

SECTION : 32 Datum 82,0	90.0
Ground Profile	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Water Level	87.61
OFFSET	0.000 5.532 5.532 10.233 10.2333 1.110 1.3.110
	10.0

SECTION : 33	90.0
Datum 82.0	
Ground Profile	8888 891 882 882 883 892 882 893 893 893 893 893 893 893 893 893 893
Water Level	87.50
OFFSET	10000 1006 3664 3664 5.761 7.776 10.104
	9 9

SECTION : 34 Datum 81.0	90.0 87.5 85.0		
Ground Profile		88.52	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Water Level			86.97 - 86.97 - 86.97 -
OFFSET		0.000	3.922 5.274 5.988 5.982 8.982 11.010 11.010 11.010 14.039 14.039
		0.0	10.0

Datum 82.0	
Ground Profile	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Water Level	87.67
Soffit Level	89.18 -
OFFSET	0.000 5.916 7.6313 7.6313 10.0014 11.888 11.8888 11.8888 11.8888 11.8888 11.8888 11.8888 12.571 15.170
	0.0

SECTION : 32	87.5 • 85.0 •			M	1	
Datum 82.0	00.0					
Ground Profile		10.68	89.05	888 887 87 87 87 87 87 87 87 87 87 87 87	88.96	80.06
Water Level				87.61 87.61		
OFFSET		0:00	4 144	5 742 7 639 8 866 10 233	13.110	18 299
		0.0		10.0		

SECTION : 33	90.0 87.5 85.0		
 Datum 82.0	05.0		
Ground Profile			
Water Level		87.50	
OFFSET		1,126 2,000 3,524 5,761 7,776 7,776 10,104	
		0.0	

	Datu
15.856 18.255 39.202	Ground
20.0	Wate
	OFF

# LIDEN BROOK SECTION

	92.5
SECTION : 19	90.0
	87.5
Datum 84.0	85.0
Ground Profile	
Water Level	
OFFSET	

6.683 8.875 8.875 10.266 11.0285 11.0285 11.0285 11.0385 11.0385 11.0892

89.27 

10.0

	_
SECTION : 20	92.5
Datum 84.0	85.0 -
Ground Profile	90.92 90.92 90.78 90.65 90.65 91.12 91.12
Water Level	89.77
OFFSET	2.124 2.124 5.215 6.2119 6.2119 9.335 9.355 9.5555 9.5555 9.5555 9.5555 9.5555 9.5555 9.5555 9.5555 9.55555 9.55555 9.5555 9.55555555
OFFSET	0.0 2.124 5.1124 5.1124 5.112 5.112 5.112 5.112 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.123 5.124 5.125 5.124 5.124 5.125 5.124 5.125 5.124 5.125 5.124 5.125 5.124 5.125 5.125 5.124 5.125 5.124 5.125 5.124 5.125 5.124 5.125 5.124 5.125 5.124 5.125 5.124 5.125 5.124 5.125

SECTION : 21	92.5 90.0 87.5
Datum 84.0	85.0 -
Ground Profile	90,242 90,242 90,342 91,09 91,10 91,10 90,10 91,10 91,10 91,10 90,10 91,10 90,10 91,10 91,10 91,10 90,10 91,100 91
Water Level	89.59
OFFSET	0.000 2.887 2.887 5.234 5.234 5.234 9.620 9.620 9.620 11.855

	9
SECTION : 22	90
	8
Datum 84.0	8
Ground Profile	
Water Level	
OFFSET	

	92.5
SECTION : 23	90.0
	87.5
Datum 84.0	85.0 -
Ground Profile	90.37 90.42 90.42 90.42 90.55 90.51
Water Level	89.20 89.20
OFFSET	0.000 2.936 4.796 6.913 6.913 8.129 8.129 9.163 11.050

SECTION : 24 Datum 83.0	90.0
Ground Profile	90,000 90,0000 90,0000 90,0000 90,0000 90,0000 90,0000 90,0000 90,0000 90,0000 90,0000 90,0000 90,00000 90,00000 90,0000
Water Level	88.98
OFFSET	5.467 5.467 8.096 10.045 11.1212
	0.0

SECTION : 13	92.5 90.0		Τ			Т	
Datum 85.0	87.5						
Ground Profile		21.47	91.64*	5810 1000	90.85 91.32 91.54	91.57*	
Water Level				90.43	90.43		
OFFSET		0.000	3,901	0000	2226	14.307	
		0.0			10.0		

SECTION : 14	92.5
Datum 84.0	85.0
Ground Profile	91.41 91.28 91.20 91.12 91.29 91.29
Water Level	90.18
OFFSET	5.006 5.006 3.3554 9.3552 9.3552 10.850 10.850 13.052 13.052

SECTION : 15	92.5 90.0 87.5
Datum 84.0	85.0
Ground Profile	91.48 91.36 91.16 91.16 91.15 91.33 91.33 91.33
Water Level	90.10
OFFSET	0.000 3.160 5555 5555 5355 5355 5355 534 534 534 53
	0.0

	92.5 -	
SECTION : 16	90.0 -	
	87.5 -	
Datum 84.0	85.0	
Ground Profile		91.27 91.28 91.28 99.94 99.94 91.33 91.33
Water Level		90.07
Soffit Level		91,35+
OFFSET		0.000 3.662 5.787 5.787 5.628 6.628 6.628 6.628 9.597 10.588 11.588
		0.0

SECTION : 17 Datum 84.0	92.5 90.0 87.5 85.0	
Ground Profile	03,0	
Water Level		90.03
Soffit Level		91.30*
OFFSET		0.0 4 10 10 10 10 10 10 10 10 10 10 10 10 10
		0.0

SECTION : 18 Datum 84.0	92.5
Ground Profile	91,05 91,05 90,35 90,35 91,09 91,09 91,09 91,09 91,09
Water Level	- 56-68 - 68
OFFSET	0.000 2.922 3.399 5.399 5.399 7.375 7.375 7.375 7.375 7.336
	0.0

SECTION : 7	95.0 92.5 90.0	-	
Datum 86.0	87.5	1	
Ground Profile		93,12	93 83 951 47 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Water Level			91.57
OFFSET		0000	2 230 2 20 2 2
		0.0	10.0

SECTION : 8	92.5 <b>-</b> 90.0 <b>-</b>	İ	Τ		
Datum 86.0	87.5	1			
Ground Profile		92,65	92.71	92.67 92.16 92.16 92.16 92.10 92.10	92.46
Water Level				91.44 <b>-</b> 91.44 -	
OFFSET		000'0	4.004	6.786 8.744 8.744 10.658 11.658	16 397
		0.0		10.0	_

SECTION : 9	92.5	
Datum 85.0	0/15	
Ground Profile	92.27 92.27 91.13 91.13 92.03 92.16	92.09
Water Level	91.24	
OFFSET	0.000 3.071 5.085 6.067 7.567 11.589 11.589	15.227
	0.0	-

SECTION : 10 Datum 85-0	92.5 90.0 - 87.5 -			
Ground Profile		10'76	91.97 91.51 921.51 921.93	92.15
Water Level			90,95	
OFFSET		0000	5 909 8 611 9 566 10 9566 12 302 14 227	19 012
		0.0	0.0	

SECTION : 11 Datum 85.0	92.5 90.0 87.5		Τ	
Ground Profile		\$8'16	95'16	91,92 90,55 90,55 91,55 91,73 92,05 92,05
Water Level				90.76 90.76
OFFSET		000'0	3,586	6,815 8,885 8,788 10,011 11,227 11,227 11,227 12,500 13,562
		0.0		10.0

SECTION : 12	92.5 90.0	Τ		
Datum 85.0	87.5			
Ground Profile	09'16	65.19	91.28 91.49 91.85 91.85 91.85	89 16
Water Level			90.56	
OFFSET	000'0	3.332	8.044 9.200 10.925 12.544 13.740	16.867
	3		10.0	20.0

	97.5
SECTION : 1	95.0
Datum 88.0	90.0 -
Ground Profile	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Water Level	94.14
Soffit Level	95.36 - 95.37 - 95.37 -
OFFSET	0 000 0
	0.0

SECTION : 2 Datum 87.0	95.0 92.5 90.0
Ground Profile	93, 76 93, 62 93, 62 93, 93 93, 93 93, 93 93, 64 93, 64 93, 64 93, 64 93, 64 93, 64 93, 64 93, 64
Water Level	92.40*
	0.000 3.451 5.4481 5.4481 9.255 9.2555 11.925 11.925 14.148 14.148 14.148
OFFSET	0 440,00,000114 0

	95.0 -	L	_	_			
SECTION : 3	92.5 <b>-</b> 90.0 <b>-</b>	1					
Datum 86.0	87.5						
Ground Profile		93,62	93.72	93.61	366	92 89 93 34	03. KK
					_		
Water Level					92.19		
Water Level OFFSET		0.000	2.505	4.365 5 804	mort	10.0 10.630	16.600

	95.0		
SECTION : 4	92.5		
	90.0		
Datum 86.0	87.5		
Ground Profile		96,59	93,63 93,57 93,57 92,28 92,28 92,28 92,28 92,28 93,13 93,13 93,13 93,13 93,13 93,13 94,13 94,13 94,13 94,13 95,13 95,13 94,13 95,150,150,150,150,150,150,150,150,150,15
Water Level			92.01
OFFSET		000'0	4.907 6.197 8.497 8.497 8.497 10.2565 11.372 12.372 13.748 13.748 13.748 13.748
		0.0	.0.0

	95.0 <b>T</b>
SECTION : 5	92.5
Datum 86.0	87,5 -
Ground Profile	93.23 93.33 93.05 93.05 93.11 93.21 93.21
Water Level	-66'16 -66'16
OFFSET	0.000 2.978 5.184 6.333 6.333 5.033 5.033 5.033 5.033 5.827 11.682 11.682
-	0.0

	95.0 <b>]</b>
SECTION : 6	92.5
Datum 86.0	87.5
Ground Profile	9 2 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 2 1 2 9 9 9 2 1 2 9 9 9 2 1 2 9 9 9 9
Water Level	91.70
OFFSET	0.000 3.384 5.553 5.55555 5.55555 5.55555 5.55555 5.55555 5.555555

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of the on-site grid.			e ve el c
Buildings Wall Kets Inne Line marking Drop kerb 1000,000 Station Leve Cancopy/O	edge Pinv edge Gy erge Gy erge Gy erge Gy erge Gy Pipe Name MH MH MH MH MH MH MH MH MH MH MH Sv Er Wm Sv Sv Er Wm Sv Sv Sv Sv Sv Er Wm St St St St St St St St St St St St St	Leege Inspection chamber Pipe invert Guly Back guly Down pipe Pipe above opcont Manhole Pipe above opcont Manhole Fipod light Electricity post Electricity post E	IB     Illuminated bollard       Bin     Rubbish bin       Vp     Nubbish bin       Vp     Vent pipe       GGI     Ground light       Lbox     Letter box       Lift     Ladder       Sity     Sile       IFL     Internal floor level       TH     Trashold level       BH     Borshole       ELC     Electric       BT     British Telecom       Cbox     Control box       TT     Tacilie       BP     Brick paved       CPS     Concrete paving site       CVR     Cover
Rev Date	0	nat	Drawn Q. Re Ch
☐ Site Engineer ☐ Utility / CCTV Su Tel (01332) 830	Rowan Duffield Little DE21	□ Rev House I Road Eaton rby 5DR	Laser Scanning vit & BIM Models
	in@greenha w.greenhatc 24 Riversie Amethy Newcastle Newcastle NE4 t. (01912) f. (01912)	h-group.co. le Studios st Road Bus. Park e-U-Tyne 7YL ) 736391	
CLIENT	Peter Assoc		
PROJECT Ea	stern Swin	-	es
TITLE	Sect Sur		
SCALE A2@ 1: 10 DRAWN	000	o	DATE OCT 2013
SS	OS GNS	s	
Grid orientation Job number Drawing No.	OS GNS 18442		Rev.
184	142_SI	ECTIC	al
Comments This plan should or purpose. Greenhatd for this plan if suppi the original client. All dimensions shou to design and consi Drainage informatic	ch Group ac lied to any p uld be check truction.	cepts no re arty other ti ced on site j	han prior

SECTION : 25 Datum 83,0	90.0	
Ground Profile	89.157 90.02 89.85 88.53 89.53 89.79 90.06 90.07	
Water Level	685.88 685.88 685.88	
OFFSET	0.000 5.534 7.767 9.010 9.010 11.1811	
	0.0	

SECTION : 26	90.0
Datum 82.0	
Ground Profile	6 30 30 30 30 30 30 30 30 30 30 30 30 30
Water Level	- 16'28
Water Level	~ ~ ~
OFFSET	0.000 6.2299 6.2299 11.6615 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 13.224 14.12 13.224 14.12 14

SECTION : 27 Datum 82.0	90.0 87.5 85.0			
Ground Profile		79'68	889 899 883 883 883 883 883 883 883 883	89.34 89.37 89.39
Water Level			87.83	
OFFSET		0.000	7.591 9.368 9.368 9.368 9.368 9.368 10.780 11.5082 11.5082	17.786 20.000 22.020
		0.0	10.0	20.0

SECTION : 28 Datum 82.0	90.0 87.5 85.0		Γ	
Satulii 82.0	_	-	-	
Ground Profile		97°68	89.19	200 000 0 11000000000000000000000000000
Water Level				87,73
Water Level OFFSET		0.000	4.361	6.718 9.672 9.672 10.659 11.659 12.659 12.659 12.659 12.659 12.659 12.659 12.659 12.6566 12.6566 12.6566 12.6566 12.6566 12.6566 12.6566 12.6566 12.6

SECTION : 29 Datum 82.0	90.0 87.5 85.0			
Ground Profile		89,13	89,00 87,60 87,60 87,50 88,57 88,57 89,57 89,57 89,57 89,57 89,57 80,57 80,57 80,57 80,57 80,57 80,57 80,57 80,500	
Water Level			87,72	
OFFSET		0.000	5,488 6,749 8,245 9,625 11,412 12,888 12,888	
		0.0	10.0	

SECTION : 30 Datum 82.0	90.0 87.5 85.0				]
Sutuin 02.0		<u> </u>	_	┈┈┈╨┼┼╴	-
Ground Profile		90'68	60.68	89.16 87.78 87.72 87.72 87.72 88.98	89.12
Water Level				87.67	
Soffit Level				89,02 *	
OFFSET		000.0	4.925	8.767 10.494 11.038 12.640 13.757 15.220 16.647	19.696
		0'0		10.0	

SECTION : 31 Datum 82.0	90.0 87.5 85.0
Ground Profile	8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9
Water Level	87.67 87.67
Soffit Level	89.18 -
OFFSET	0.000 5.815 9.678 9.678 9.678 1.680 1.880 1.1.8800 1.1.8800 1.1.8800 1.1.8800 1.1.880000000000

SECTION : 32 Datum 82,0	90.0
Ground Profile	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Water Level	87.61
OFFSET	0.000 5.532 5.532 10.233 10.2333 1.110 1.3.110
	10.0

SECTION : 33	90.0
Datum 82.0	
Ground Profile	8888 891 882 882 883 892 882 893 893 893 893 893 893 893 893 893 893
Water Level	87.50
OFFSET	10000 1006 3664 3664 5.761 7.776 10.104
	9 9

SECTION : 34 Datum 81.0	90.0 87.5 85.0		
Ground Profile		88.52	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Water Level			86.97 - 86.97 - 86.97 -
OFFSET		0.000	3.922 5.274 5.988 5.982 8.982 11.010 11.010 11.010 14.039 14.039
		0.0	10.0

Datum 82.0	
Ground Profile	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Water Level	87.67
Soffit Level	89.18 -
OFFSET	0.000 5.916 7.6313 7.6313 10.0014 11.888 11.8888 11.8888 11.8888 11.8888 11.8888 11.8888 12.571 15.170
	0.0

SECTION : 32	87.5 • 85.0 •			M	1	
Datum 82.0	00.0					
Ground Profile		10.68	89.05	888 887 87 87 87 87 87 87 87 87 87 87 87	88.96	80.06
Water Level				87.61 87.61		
OFFSET		0:00	4 144	5 742 7 639 8 866 10 233	13.110	18 299
		0.0		10.0		

SECTION : 33	90.0 87.5 85.0		
 Datum 82.0	05.0		
Ground Profile			
Water Level		87.50	
OFFSET		1,126 2,000 3,524 5,761 7,776 7,776 10,104	
		0.0	

	Datu
15.856 18.255 39.202	Ground
20.0	Wate
	OFF

# **DORCAN STREAM**

SECTION : 1 Datum 85.0	95.0 92.5 90.0 87.5	
Ground Profile	95.20 90.75 90.75	64:75
Water Level	90.89	
Soffit Level	93.11.	
OFFSET	0.000 1.358 3.528	6.817
	0	_

SECTION : 2 Datum 85.0	95.0 92.5 90.0 87.5	
Ground Profile		92.89 91.86 91.20 90.69 90.81 91.51 91.51
Water Level		90.82 90.82
OFFSET		0.000 1.226 2.665 3.876 4.864 6.207 6.207
		0.0

Datum 85.0         87.5         1         <		20.118
Ground Profile	5 S	1
87.5 Datum 85.0	Ground Profile	92.42
92.5 SECTION : 3 90.0	SECTION : 3 90.0 - 87.5 -	

SECTION : 4	92.5 90.0			ĺ	1				
Datum 85.0		Ŀ		-	H	1	-	-	-
Ground Profile		92.12	91.12	00.16	91.17	92.23	92.32	92.45	92.69
Water Level			90.42	.00.00					
OFFSET		0.000	2.252	3.028	6 291 7 242	10.000	11.795	14.182	18.085
		0.0				0.01			

	95.0	1							
	92.5	⊢				~	-	$\top$	
SECTION : 5	90.0	1		Π	Π	1			
	87.5	1			Ш				
Datum 84.0	85,0								
Ground Profile		92:08	91.74	90.97	90.02 89.81	91.44	92,07	92,56	00.00
Water Level					90.23	<b>38:23</b>			
OFFSET		0.000	2.967	5.065	7 419 8 513	9.540	12,879	15.577	00.000
		0.0				10.0			

SECTION : 6	92.5 90.0 87.5
Datum 84.0	85.0
Ground Profile	91.80 91.76 91.75 91.58 90.30 89.33 90.36 91.49 91.46 91.46 92.28
Water Level	90.19 90.19
Soffit Level	91.47 - 91.50 - 91.58
OFFSET	0.000 3.265 5.300 7.786 9.130 10.192 11.594 12.505 13.505 15.5050
	0.0

SECTION : 7 Datum 84.0	92.5 90.0 87.5		
Ground Profile	85.0 -	08'15	91.76 91.87 91.89 91.88 90.86 89.93 90.86 91.48
Water Level			90.19
Soffit Level			91.47* 91.50* 91,58*
OFFSET		0.000	3.265 5.300 7.786 9.053 9.131 10.191 11.596 11.596 11.835 15.181 15.181
		0.0	10.0

SECTION : 8 Datum 84.0	92.5 90.0 87.5 85.0			1	Τ	
Ground Profile		91.73	91.37	89,76 90,68 91,36	91.74	91.74
			2	6		
Water Level			90.00	90.00		
Water Level OFFSET		0000	5, 796 7, 208 8: 573 90.0	10.140 90.0 11.360 12.780	16,000	20 40B

SECTION : 9	92,5 90.0		
Datum 84.0	85.0		
Ground Profile		91.74	91.66 90.94 89.70 89.76 91.27 91.27
Water Level			90.02
Soffit Level			91.24 - 91.44
OFFSET		2.570	5.375 5.375 9.226 10.453 12.105 12.105
		0.0	10.0

		0.0				0					.00	2	
OFFSET		000.0	3,675	5.825	8.265	9.457	11.884	13,189	14.375	16.041	19.632		23.127
Water Level					89,97	89.97		89.97					
Ground Profile		91,63	91,65	91.55	91.06	90.05	89.89	90.57	11.10	91.32	91.44		91.40
Datum 84.0	85.0			Ш					1				
	87.5	ł		Ш				L	II				
SECTION : 10	90.0 -	ł		IГ	ľ	hπ	1	T	Π				
	92.5			_						<u> </u>			_

	92.5			
SECTION : 11	90.0			
	87.5			
Datum 84.0	85.0			
Ground Profile		- 59'16 - 61'62	91,55 91,32 91,32 91,32 91,32 89,89 89,89 90,57 91,11	91.32 91.44
Water Level			89.97 89.97	
Water Level OFFSET		3,675	5.825 6.846 8.265 9.457 9.457 10.687 11.685 11.895 13.189 13.189 13.189	16.041 19.632 23.122

SECTION : 12	92.5 90.0 87.5			ſſ	T	
Datum 84.0	85.0			11		
Ground Profile		92.14	90.83 90.48 89.36 89.36	91.47	91.77	92.41
Water Level			- 16'68	89.91		
OFFSET		0.552	4.159 5.700 6.829 7.897	10.577	12,823	17.243
		0.0		10.0		_

SECTION : 13 Datum 84.0	92.5 90.0 87.5					1	1			
Ground Profile		92.25	91.98	9163	91.20		91.50	91.74	92.03	22 22
Water Level					89,86-	89,86	89,86			
OFFSET		0:000	2.828	5692	7.858	§ 562	11.037	12.863	15.468	20.144
		0.0				0.0				

	92.5	1-		_
SECTION: 14	90.0 87.5			
Datum 84.0	85.0			
Ground Profile		07-16	91.88 90.59 90.51 90.51 90.51 91.91 92.05	02.13
Water Level			89.84 89.84 89.84	
Soffit Level			91.79	
OFFSET		0:00	3.026 5.416 5.313 6.335 7.357 9.3573 10.151 11.688 13.573 13.573	21.021
		0.0	10.0	20.0
	92.5			
SECTION: 15	90.0	1		
Datum 84.0	87.5	1		
Ground Profile		17.16	91.80 91.69 91.69 90.81 92.48 91.05 91.90	92.11 92.10 92.08
Water Level			89.86 89.86 89.86	
Soffit Level			- 62'16 - 62'16	
		8	2 2 2 2 2 2 2 2 2 2	8 0 8
OFFSET		0.00	3.698 4.925 6.137 7.662 7.662 8.804 8.804 10.322 10.904 13.229 14.104	17.923 20.000 23.408

	92.5	1	_
SECTION : 16	90.0	4	
	87.5	41	
Datum 84.0	85.0		
Ground Profile		91.57	91.44 91.14 890.31 890.31 890.33 890.33 890.33 890.33 890.33 890.33 890.33 890.33 890.33 8000
Water Level			89.86 89.86
OFFSET		0.000	5 192 6 226 9 084 9 084 11 150
		0.0	10.0
	92,5	-	
SECTION : 17	90.0		
SECTION : 17	87.5	4	
Datum 84.0	85.0	4	
Ground Profile		91.32	91.31 91.23 90.25 89.01
Water Level			89.75 89.75
Soffit Level			91.34 91.31
OFFSET		0.000 3.335	7 165 7 281 8 419 10 331
		0.0	10.0

	92.5	1_		
SECTION : 18	90.0	1		
	87.5	1		
Datum 84.0	85.0			
Ground Profile		17:16	91.26	1008 000 100 000 000 000 000 000 000 000
Water Level				89.75 89.75
Soffit Level				91.36 91.36 91.35
OFFSET		0.000	3.786	7.173 8.738 8.735 10.128
		0.0		10.0
	Datum 84.0 Ground Profile Water Level Soffit Level	SECTION : 18 90.0 87.5 Datum 84.0 85.0 Ground Profile Water Level Soffit Level	SECTION : 18 90.0 87.5 Datum 84.0 Ground Profile Water Level Soffit Level OFFSET	SECTION : 18 90.0 87.5 Datum 84.0 Ground Profile Water Level Soffit Level OFFSET

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Note: Some services may The Ordnance Surv OS Buildings This survey has be (0.5) National Grid Systems (GNSS) a A true OSGB36 coo site centre via a tra- transformation moo The survey has bee or more OSGB36 p bearing for angle or No scale factor has coordinates shown which have a scale	en orientate (OSGB36) nd the O.S. ordinate has nsformation tels. en correlated oints establic rientation. a been applid are arbitrary factor appli	be used as a veyed Buildir d to the Ordr via Global N. Active Netwo been establ using the OS d to this poin ished to crea ed to the sun v & not true ( ed.	a guide o ngs [ avigation avigation ork (OS o ished ne STN02 & t and a fu te a true vey there D.S. Coo	nly. Invey Ial Satellite Net). ar to the OSGM02 Inther one O.S. fore the rdinates
Please refer to Sur of the on-site grid.	vey Station	l able to ena	ble estat	blishment
		Leg	end	
Buildings Overhead Wall Concrete Karb line Tarmac. Line marking Grass v Drop kerb Canopy/O Centre line Verge	e edge Plnv edge Gy verge Bg lverhang Dp e Pipe	Inspection chamber Pipe invert Gully Back gully Down pipe Pipe above ground	IB II Bin F Vp V Grl G Lbox L	ollard luminated bollard lubbish bin ent pipe iround light etter box
▲ 1 Station and 100.000 Station Leve	el WL Fl I / Sapling Lp dergrowth Ep	Manhole Water level Flood light Lamp post Telegraph post Electricity post	Sty S IFL II THL T Sp S TH T	adder tile tternal floor level hreshold level ign post rialhole
R: Ridge Level E: Eaves Level F: Flat Roof Leve Fence types:	TI Bus Sv I St Er Wm Gas	Traffic light Bus stop Stop valve Stop tap Earth rod Water meter Gas valve	ELC E BT E C'box C TT T BP E	orehole lectric ritish Telecom antrol box actile rick paved concrete paving slabs
IR Iron Railing WM Wire Mesh PR Post & Rail PW Post & Wire CIL Chain Link WP Wooden Pa	B Av ICU Wo Re BB CTV	Gas valve Air valve Undentified inspecti Wash out Rodding eye Belisha beacon Cable tv	CVR C on IC II R/wall F UTL U TCL T	concrete paving slabs cover ispection chamber letaining wall Inable to lift ree canopy level iirth
WIP Wooden Pa CIP Concrete P. SIP Steel Palise	anels Gmkr	Marker post Gas marker post Soffit	Stmp T CL: C	tutti girth iree Stump Cover level svert level
gree	g] urveys			ing Surveys
□ Utility / CCTV St	urveys Rowan Duffield Little De DE21	House d Road Eaton rby 5DR	332) 830	Models
adm	nin@greenha w.greenhato Newcastle 24 Riversi Amethy Newcastle	de Studios st Road Bus. Park e-U-Tyne	o.uk 1k Poland ul. Pan 40-76	ewnicka 91   Katowice   dand
AL3 8JG t. (01582) 842745 f. (01582) 849358	NE4 t. (01912 f. (01912)	7YL ) 736391		32 202 2292 eenhatch.pl
CLIENT	Peter Asso			
PROJECT Ea		Village	es	
	Swir Sec	tion	es	
Ea	Swir Sec Sur	tion vey o	DATE ct 201	
Ea <i>TITLE</i> SCALE A2@ 1: 10 <i>DRAWN</i>	Swir Sec Sur	tion vey o au	DATE ct 201	
Ea TITLE SCALE A2@ 1: 10 DRAWN SS Level datum Grid orientation Job number Drawing No. 184 Comments	Swir Sec Sur 000 0 0s GNS 0 0 SGNS 18442	idon tion vey o au	DATE ct 201 ALITY R	
Ea TITLE SCALE A2@ 1: 10 DRAWN SS Level datum Grid orientation Job number Drawing No. 184	Swir	tion vey o au, au, ss ss ss ss tor its origina coepts no res arty other the ked on site p opplicable) ha	DATE ct 201 ALITY R DNS al pponsibil an prior as been	EF Rev. O

SECTION : 19	92.5 90.0 - 87.5 -			M	ſ	Τ	
Datum 84.0	85.0				11		
Ground Profile		16'06	20.92	90,26 89,04 89,26		91.18	01.22
Water Level				89.67	89,67		
OFFSET		00010	6.289	9,96 9,43 9,45	82	16.642	20.144
		0.0		10.0			0.00

SECTION : 20 Datum 84.0	92.5 90.0 87.5 85.0
Ground Profile	56'06 66'06 80'06 80'06 80'06 80'06
Water Level	89.64
OFFSET	0.000 6.543 6.543 7.17 11.585 13.385 13.385

SECTION : 21 Datum 84.0	92.5 90.0 87.5 85.0
Ground Profile	08,02 00,00 0,
Water Level	89.58 89.58
OFFSET	0.000 4.994 6.286 7.466 9.805 10.856 12.338 14.558 14.558
	0.0

	92.5
SECTION : 22	90.0
Datum 84.0	87.5
Ground Profile	90,55,23 90,53 90,30 90,30 90,
Water Level	89.52
OFFSET	0.000 5.002 5.002 8.137 8.137 10.513 10.513 12.180 12.180
	0.0

SECTION : 23 Datum 83.0 Ground Profile	92.5 90.0 87.5 85.0	30.55	90.555 90.665 90.066 90.013 90.013 90.75 90.75
Water Level			8 9 4 8 8 9 6 8 8 9 6 8 8 8 8 9 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
OFFSET		0,000	4.011 5.989 6.809 9.825 11.036 12.409 14.888 14.888
		0.0	10.0

SECTION : 24 Datum 83.0	92.5 90.0 87.5 85.0
Ground Profile	90.54 90.44 80.13 90.05 90.05 90.05 90.65
Water Level	89.29 - 89.29 - 89.29 -
OFFSET	u.uuu 3.969 9.980 9.233 11.311 11.311 11.311 12.549 15.520 15.520
	0.0









## Appendix C Stakeholder Correspondence

EA Product 4 Data - EA ref *THM102057,* dated October 2018

EA Product 4 Data - EA ref OX\_0327\_01, dated June 2013



### Product 4 (Detailed Flood Risk) for Site East of Swindon, SN4 0UY Our Ref: THM102057

Product 4 is designed for developers where Flood Risk Standing Advice FRA (Flood Risk Assessment) Guidance Note 3 Applies. This is:

- i) "all applications in Flood Zone 3, other than non-domestic extensions less than 250 sq metres; and all domestic extensions", and
  - ii) "all applications with a site area greater than 1 ha" in Flood Zone 2.

#### Product 4 includes the following information:

Ordnance Survey 1:25k colour raster base mapping;

Flood Zone 2 and Flood Zone 3;

Relevant model node locations and unique identifiers (for cross referencing to the water levels, depths and flows table);

Model extents showing defended scenarios;

FRA site boundary (where a suitable GIS layer is supplied);

Flood defence locations (where available/relevant) and unique identifiers; (supplied separately)

Flood Map areas benefiting from defences (where available/relevant);

Flood Map flood storage areas (where available/relevant);

Historic flood events outlines (where available/relevant, not the Historic Flood Map) and unique identifiers;

Statutory (Sealed) Main River (where available within map extents);

A table showing:

i) Model node X/Y coordinate locations, unique identifiers, and levels and flows for *defended* scenarios.

ii) Flood defence locations unique identifiers and attributes; (supplied seperately)

iii) Historic flood events outlines unique identifiers and attributes; and

iv) Local flood history data (where available/relevant).

#### Please note:

If you will be carrying out computer modelling as part of your Flood Risk Assessment, please request our guidance which sets out the requirements and best practice for computer river modelling.

This information is based on that currently available as of the date of this letter. You may feel it is appropriate to contact our office at regular intervals, to check whether any amendments/ improvements have been made. Should you recontact us after a period of time, please quote the above reference in order to help us deal with your query.

This information is provided subject to the enclosed notice which you should read.

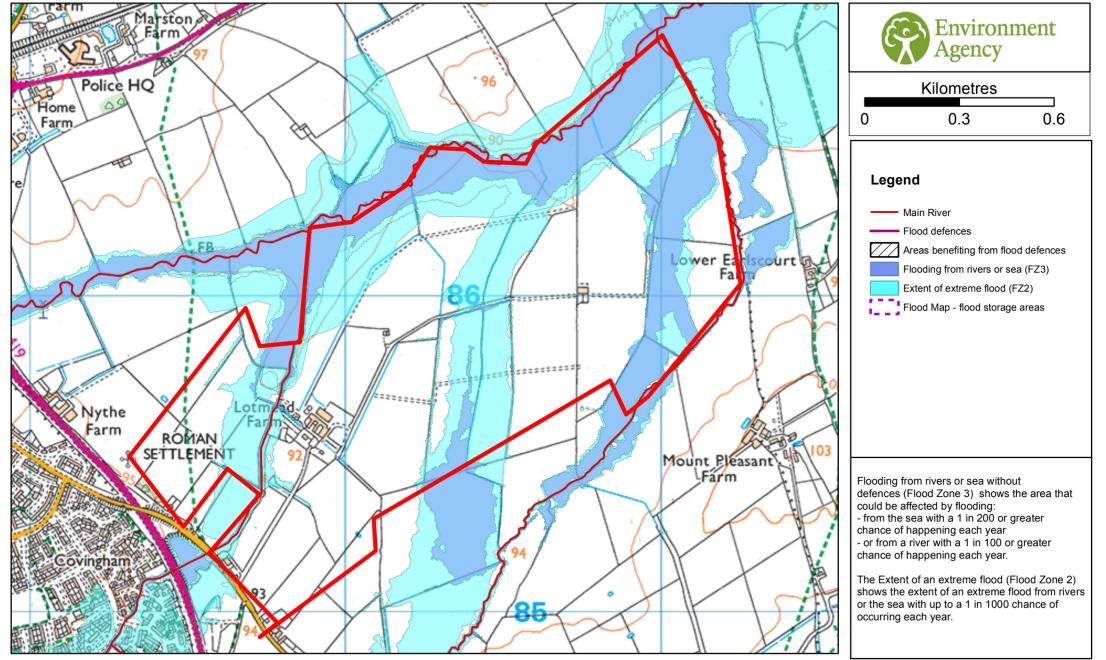
This letter is not a Flood Risk Assessment. The information supplied can be used to form part of your Flood Risk Assessment. Further advice and guidance regarding Flood Risk Assessments can be found on our website at:

https://www.gov.uk/guidance/flood-risk-assessment-local-planning-authorities

If you would like advice from us regarding your development proposals you can complete our pre application enquiry form which can be found at:

https://www.gov.uk/government/publications/pre-planning-application-enquiryform-preliminary-opinion

### Flood Map for Planning centred on SN4 0UY Created on 18/10/18 REF:THM102057



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### **Defence information**

Defence Location:

No defences on Main River

Description: This location is not currently protected by any formal defences and we do not currently have any flood alleviation works planned for the area. However we continue to maintain certain watercourses and the schedule of these can be found on our internet pages.



THM102057

### **Model information**

### Model: Cole (MRL to Acorn Bridge) 2007

Description: The information provided is taken from the Upper Cole (MR Limit to Acorn Bridge) Flood Mapping Study completed in March 2007. The study was carried out using 1D modelling software (ISIS). This model has been partially superceeded below the A419 by the Cole EDA (A419 to South Marston Brook) 2011 model.

The confidence in the hydrological and hydraulic models could be improved in the future. There is some uncertainty in the modelling due to the lack of hydrometric data and the difficulty in reconciling water levels at the upper gauges and Acorn Bridge. Furthermore the 3 calibration events are very small and the model is untested during large flood events. Despite the limited calibration and uncertainty in levels, it has been found that much of the upper reaches are well defined channels where very high flows can remain within bank, particularly along the Dorcan Brook. It is therefore unlikely that this uncertainty impacts on the flood extents.

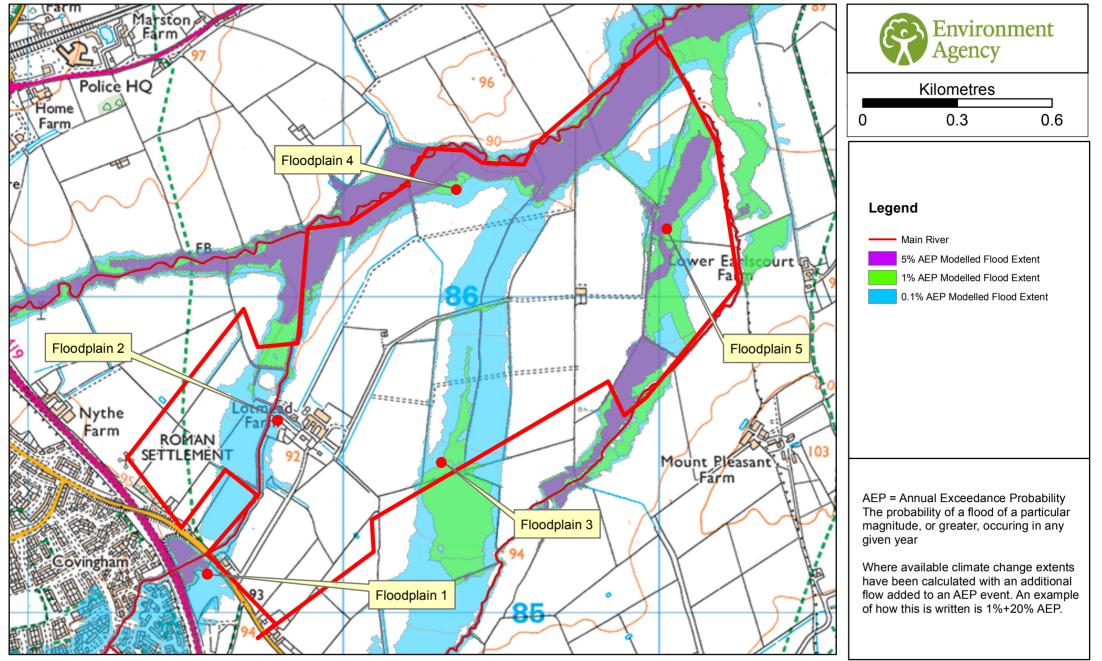
#### Model design runs:

1 in 5 / 20% Annual Exceedance Probability (AEP); 1 in 20 / 5% AEP; 1 in 50 / 2% AEP; 1 in 100 / 1% AEP and 1 in 100+20% / 1% AEP plus 20% increase in flows

#### Mapped Outputs: 1 in 5 / 20% AEP; 1 in 20 / 5% AEP and 1 in 100 / 1% AEP

Model accuracy: Levels ± 250mm

### Detailed FRA Map centred on SN4 0UY Created on 18/10/18 REF:THM102057



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