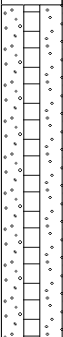


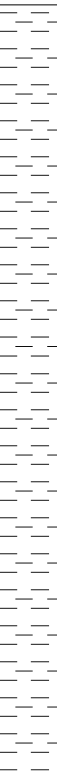








WELL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Stiff high strength orangish brown sandy CLAY. (WEATHERED BEE LOW LIMESTONE FORMATION)					S 3.00-3.45	(8) 15			PP 3.00	PP=85			
										PP 3.50	PP=92	3.50		D
						S 4.00-4.45	(10) 11			PP 4.00	PP=96			
										PP 4.50	PP=96	4.50		D
						S 5.00-5.45	(9) 16							
	BOREHOLE TERMINATED AT 5.45m	5.45	317.81											


<div>Key</div> <div>D Small Disturbed Sample</div> <div>B Bulk Disturbed Sample</div> <div>ES Environmental Sample</div> <div>W Water Sample</div> <div>C Core sample</div> <div>UT Undisturbed Sample</div> <div>S Standard Penetration Test</div> <div>C Standard Penetration Test (solid cone)</div> <div>PP Pocket Penetrometer test</div> <div>SV Shear Vane test</div> <div>PID Photo Ionisation Detector test</div>	<div>Notes</div> <div>Backfilled with arisings. Combined gas and water monitoring standpipe installed.</div>	<div>Title</div> <div>Driven tube sampler record</div>					
	<div>Recovery details</div>		<div>Method</div> <div>Driven tube sampler</div>	<div>Logged by</div> <div>TO</div>	<div>Date(s)</div> <div>31/01/2019</div>		
	<div>Range (m)</div>	<div>Recovery (%)</div>	<div>Level (m OD)</div> <div>323.26</div>	<div>Compiled by</div> <div>SA</div>	<div>Sheet number</div> <div>Sheet 2 of 2</div>		
	0.00 - 1.00	90					
	1.00 - 2.00	70					
	2.00 - 3.00	100					
	3.00 - 4.00	100	<div>Co-ordinates</div> <div>406827mE, 374235mN</div>	<div>Checked by</div> <div>SD</div>	<div>DTS13</div>		
4.00 - 5.00	90						
<div>Groundwater observations</div> <div>No groundwater encountered.</div>							
<div>Report ref: STQ4642M-G01</div>							<div>Revision: 0</div>

WELL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass over dark brown slightly clayey SAND. (TOPSOIL)	0.50	313.89			S 1.00-1.45	(1) 2			PP 0.80	PP=50	0.30		D
	Stiff medium strength brown gravelly CLAY. Gravel consists of medium to coarse angular limestone. (WEATHERED EYAM LIMESTONE FORMATION)											0.50		D
												0.80		D
													1.20	
	BOREHOLE TERMINATED AT 1.50m	1.50	312.89			C 1.50-1.52	(25 blows for 10mm penetration ) then 50 blows for 10mm penetration							


<div>Key</div> <div>D Small Disturbed Sample</div> <div>B Bulk Disturbed Sample</div> <div>ES Environmental Sample</div> <div>W Water Sample</div> <div>C Core sample</div> <div>UT Undisturbed Sample</div> <div>S Standard Penetration Test</div> <div>C Standard Penetration Test (solid cone)</div> <div>PP Pocket Penetrometer test</div> <div>SV Shear Vane test</div> <div>PID Photo Ionisation Detector test</div>	<div>Notes</div> <div>Backfilled with arisings. Borehole terminated due to competency of deposits (likely bedrock).</div>	<div>Title</div> <div>Driven tube sampler record</div>			
	<div>Recovery details</div>		<div>Method</div> <div>Driven tube sampler</div>	<div>Logged by</div> <div>TO</div>	<div>Date(s)</div> <div>08/02/2019</div>
	<div>Range (m)</div> <div>0.00 - 1.00</div> <div>1.00 - 1.52</div>	<div>Recovery (%)</div> <div>100</div> <div>100</div>	<div>Level (m OD)</div> <div>314.39</div>	<div>Compiled by</div> <div>SA</div>	<div>Sheet number</div> <div>Sheet 1 of 1</div>
			<div>Co-ordinates</div> <div>406643mE, 374289mN</div>	<div>Checked by</div> <div>SD</div>	<div>DTS15</div>
	<div>Report ref:</div> <div>STQ4642M-G01</div>				
	<div>Revision:</div> <div>0</div>				

WELL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING												
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE										
	Grass over dark brown clayey SAND. (MADE GROUND - REWORKED TOPSOIL)	0.30	323.96			S 1.00-1.45	(4) 13			PP 1.00	PP=96	0.30		D										
	Loose to medium dense dark brown mottled orangish brown dark grey slightly sandy GRAVEL. Gravel consists of fine angular slag, brick, coal and glass. (MADE GROUND)											0.50		D										
												0.80		D										
												1.20		D										
	PP 1.50									PP=100														
	1.80										D													
	S 2.00-2.45					(1) 5				PP 2.00	PP=100													
										PP 2.50	PP=92	2.50		D										
										CONTINUED ON NEXT SHEET														

<div>Key</div> <div>D Small Disturbed Sample B Bulk Disturbed Sample ES Environmental Sample W Water Sample C Core sample UT Undisturbed Sample</div> <div>S Standard Penetration Test C Standard Penetration Test (solid cone)</div> <div>PP Pocket Penetrometer test SV Shear Vane test PID Photo Ionisation Detector test</div>	<div>Notes</div> <div>Backfilled with arisings.</div>	<div>Title</div> <div>Driven tube sampler record</div>				
	<div>Groundwater observations</div> <div>No groundwater encountered.</div>	<div>Recovery details</div>		<div>Method</div> <div>Driven tube sampler</div>	<div>Logged by</div> <div>TO</div>	<div>Date(s)</div> <div>31/01/2019</div>
		<div>Range (m)</div>	<div>Recovery (%)</div>	<div>Level (m OD)</div> <div>324.26</div>	<div>Compiled by</div> <div>SA</div>	<div>Sheet number</div> <div>Sheet 1 of 2</div>
		<div>0.00 - 1.00</div>	<div>80</div>			
		<div>1.00 - 2.00</div>	<div>90</div>			
		<div>2.00 - 3.00</div>	<div>90</div>	<div>Co-ordinates</div> <div>406749mE, 374220mN</div>	<div>Checked by</div> <div>SD</div>	<div>DTS18</div>
	<div>3.00 - 4.00</div>	<div>50</div>				
<div>4.00 - 5.00</div>	<div>30</div>					
<div>Report ref: STQ4642M-G01</div>						<div>Revision: 0</div>

WELL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Loose to medium dense dark brown mottled orangish brown dark grey slightly sandy GRAVEL. Gravel consists of fine angular slag, brick, coal and glass. (MADE GROUND)	3.00	321.26			S 3.00-3.45	(1) 2			PP 3.10	PP=0			
	Soft low strength orangish brown sandy CLAY. (POSSIBLE REWORKED WEATHERED BEE LOW LIMESTONE FORMATION)									PP 3.60	PP=0	3.50		D
						S 4.00-4.45	(0) 0			PP 4.10	PP=4			
						S 5.00-5.45	(0) 0			PP 4.70	PP=4	4.50		D
	BOREHOLE TERMINATED AT 5.45m	5.45	318.81											

<div>Key</div> <div>D Small Disturbed Sample B Bulk Disturbed Sample ES Environmental Sample W Water Sample C Core sample UT Undisturbed Sample</div> <div>S Standard Penetration Test C Standard Penetration Test (solid cone)</div> <div>PP Pocket Penetrometer test SV Shear Vane test PID Photo Ionisation Detector test</div>	<div>Notes</div> <div>Backfilled with arisings.</div>	<div>Title</div> <div>Driven tube sampler record</div>				
	<div>Recovery details</div>		<div>Method</div>	<div>Logged by</div>	<div>Date(s)</div>	
	<div>Range (m)</div>	<div>Recovery (%)</div>	<div>Driven tube sampler</div>	<div>TO</div>	<div>31/01/2019</div>	
	<div>0.00 - 1.00</div>	<div>80</div>	<div>Level (m OD)</div>	<div>Compiled by</div>	<div>Sheet number</div>	
	<div>1.00 - 2.00</div>	<div>90</div>	<div>324.26</div>	<div>SA</div>	<div>Sheet 2 of 2</div>	
	<div>2.00 - 3.00</div>	<div>90</div>	<div>Co-ordinates</div> <div>406749mE, 374220mN</div>	<div>Checked by</div> <div>SD</div>	<div>DTS18</div>	
	<div>3.00 - 4.00</div>	<div>50</div>				
<div>4.00 - 5.00</div>	<div>30</div>					
<div>Report ref: STQ4642M-G01</div>						<div>Revision: 0</div>





WELL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Grass over dark brown slightly clayey SAND. (TOPSOIL - MADE GROUND)	0.30	303.29																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	Stiff brown mottled grey very gravelly very sandy CLAY. Gravel consists of fine to medium angular limestone and sandstone. (MADE GROUND)														0.30	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	Dark brown very clayey GRAVEL. Gravel consists of fine to medium angular shell, bricks, plastic, timber, slag and coal. (MADE GROUND)	0.50	303.09												D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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<div>Key</div> <div>D Small Disturbed Sample B Bulk Disturbed Sample ES Environmental Sample W Water Sample C Core sample UT Undisturbed Sample</div> <div>S Standard Penetration Test C Standard Penetration Test (solid cone)</div> <div>PP Pocket Penetrometer test SV Shear Vane test PID Photo Ionisation Detector test</div>	<div>Notes</div> <div>Backfilled with arisings.</div>	<div>Title</div> <div>Driven tube sampler record</div>				
	<div>Groundwater observations</div> <div>No groundwater encountered.</div>	<div>Recovery details</div>		<div>Method</div> <div>Driven tube sampler</div>	<div>Logged by</div> <div>TO</div>	<div>Date(s)</div> <div>06/02/2019</div>
		<div>Range (m)</div> <div>0.00 - 1.00 1.00 - 2.00 2.00 - 3.00 3.00 - 4.00</div>	<div>Recovery (%)</div> <div>90 60 40 100</div>	<div>Level (m OD)</div> <div>303.59</div>	<div>Compiled by</div> <div>SA</div>	<div>Sheet number</div> <div>Sheet 1 of 2</div>
				<div>Co-ordinates</div> <div>406486mE, 374505mN</div>	<div>Checked by</div> <div>SD</div>	<div>DTS27</div>
<div>Report ref: STQ4642M-G01</div>						
<div>Revision: 0</div>						

WELL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Dark brown very clayey GRAVEL. Gravel consists of fine to medium angular shell, bricks, plastic, timber, slag and coal. (MADE GROUND)											3.50		D
	BOREHOLE TERMINATED AT 4.00m	4.00	299.59											

<div>Key</div> <div>D Small Disturbed Sample B Bulk Disturbed Sample ES Environmental Sample W Water Sample C Core sample UT Undisturbed Sample</div> <div>S Standard Penetration Test C Standard Penetration Test (solid cone)</div> <div>PP Pocket Penetrometer test SV Shear Vane test PID Photo Ionisation Detector test</div>	<div>Notes</div> <div>Backfilled with arisings.</div>	<div>Title</div> <div>Driven tube sampler record</div>				
	<div>Groundwater observations</div> <div>No groundwater encountered.</div>	<div>Recovery details</div>		<div>Method</div> <div>Driven tube sampler</div>	<div>Logged by</div> <div>TO</div>	<div>Date(s)</div> <div>06/02/2019</div>
		<div>Range (m)</div> <div>0.00 - 1.00 1.00 - 2.00 2.00 - 3.00 3.00 - 4.00</div>	<div>Recovery (%)</div> <div>90 60 40 100</div>	<div>Level (m OD)</div> <div>303.59</div>	<div>Compiled by</div> <div>SA</div>	<div>Sheet number</div> <div>Sheet 2 of 2</div>
				<div>Co-ordinates</div> <div>406486mE, 374505mN</div>	<div>Checked by</div> <div>SD</div>	<div>DTS27</div>
<div>Report ref: STQ4642M-G01</div>						<div>Revision: 0</div>

Proposed residential development  
Nunsfield Road, Buxton

WELL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING														
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE												
	Vegetation over dark brown very clayey SAND. (TOPSOIL)	0.30	299.13									0.30		D												
	Stiff medium strength brown very sandy CLAY. (WEATHERED BOWLAND SHALE FORMATION)														0.80	298.63		0.80		D						
	Dark grey GRAVEL. Gravel consists of fine angular shale. (WEATHERED BOWLAND SHALE FORMATION)	0.80	298.63														1.20					D				
																							BOREHOLE TERMINATED AT 2.80m	2.80	296.63	

<div>Key</div> <div>D Small Disturbed Sample B Bulk Disturbed Sample ES Environmental Sample W Water Sample C Core sample UT Undisturbed Sample</div> <div>S Standard Penetration Test C Standard Penetration Test (solid cone)</div> <div>PP Pocket Penetrometer test SV Shear Vane test PID Photo Ionisation Detector test</div>	<div>Notes</div> <div>Backfilled with arisings. Borehole terminated due to competency of deposits (likely bedrock).</div>	<div>Title</div> <div>Driven tube sampler record</div>				
	<div>Groundwater observations</div> <div>No groundwater encountered.</div>	<div>Recovery details</div>		<div>Method</div> <div>Driven tube sampler</div>	<div>Logged by</div> <div>TO</div>	<div>Date(s)</div> <div>06/02/2019</div>
		<div>Range (m)</div> <div>0.00 - 1.00 1.00 - 1.50</div>	<div>Recovery (%)</div> <div>95 100</div>	<div>Level (m OD)</div> <div>299.43</div>	<div>Compiled by</div> <div>SA</div>	<div>Sheet number</div> <div>Sheet 1 of 1</div>
				<div>Co-ordinates</div> <div>406514mE, 374343mN</div>	<div>Checked by</div> <div>SD</div>	<div>DTS28</div>
<div>Report ref: STQ4642M-G01</div>						<div>Revision: 0</div>

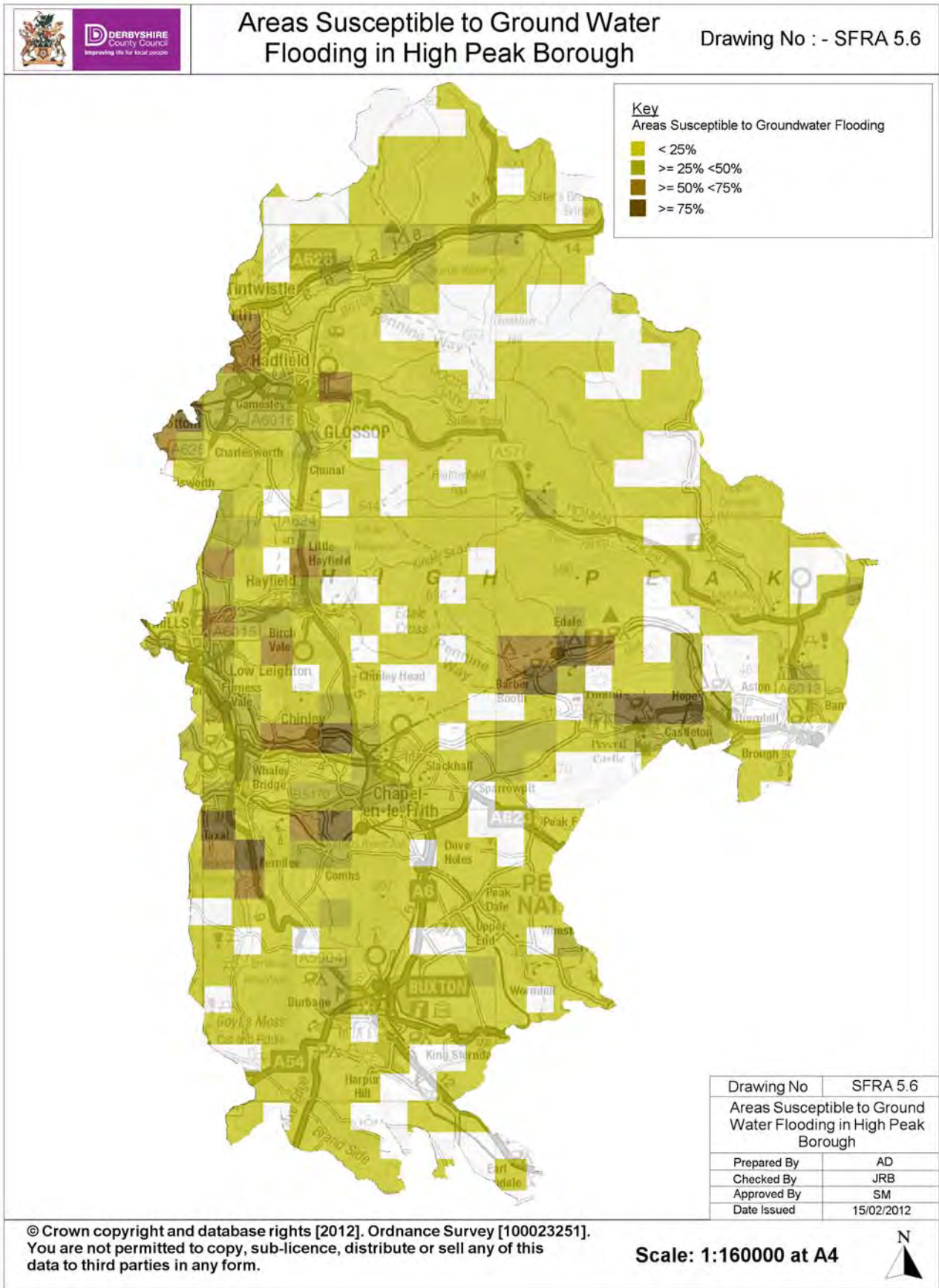
WELL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Stiff high to very high strength dark grey very gravelly CLAY. Gravel consists of fine to medium angular slag. (MADE GROUND)									PP 3.00	PP=113			
										PP 3.50	PP=138	3.50		D
										PP 4.00	PP=142			
										PP 4.50	PP=125	4.50		D
	BOREHOLE TERMINATED AT 5.00m	5.00	289.59											

<div>Key</div> <div>D Small Disturbed Sample B Bulk Disturbed Sample ES Environmental Sample W Water Sample C Core sample UT Undisturbed Sample</div> <div>S Standard Penetration Test C Standard Penetration Test (solid cone)</div> <div>PP Pocket Penetrometer test SV Shear Vane test PID Photo Ionisation Detector test</div>	<div>Notes</div> <div>Backfilled with arisings.</div>	<div>Title</div> <div>Driven tube sampler record</div>				
	<div>Recovery details</div>		<div>Method</div> <div>Driven tube sampler</div>	<div>Logged by</div> <div>TO</div>	<div>Date(s)</div> <div>29/01/2019</div>	
	<div>Range (m)</div> <div>0.00 - 1.00 1.00 - 2.00 2.00 - 3.00 3.00 - 4.00 4.00 - 5.00</div>	<div>Recovery (%)</div> <div>100 40 70 100 100</div>	<div>Level (m OD)</div> <div>294.59</div>	<div>Compiled by</div> <div>SA</div>	<div>Sheet number</div> <div>Sheet 2 of 2</div>	
			<div>Co-ordinates</div> <div>406458mE, 374338mN</div>	<div>Checked by</div> <div>SD</div>	<div>DTS29</div>	
<div>Report ref: STQ4642M-G01</div>						
<div>Revision: 0</div>						



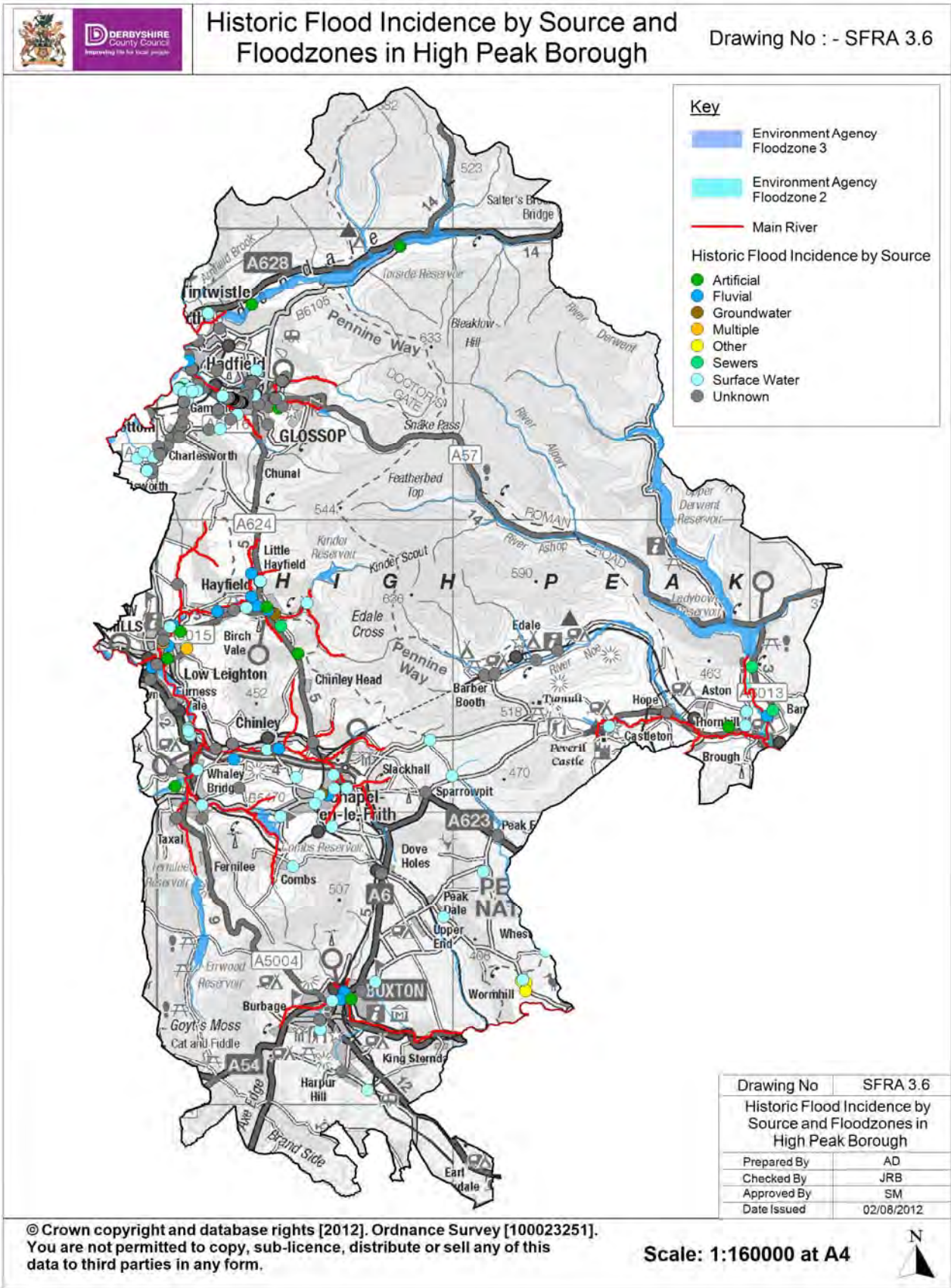


**Appendix F**  
**Areas Susceptible to Groundwater Flooding (High Peak Borough)**  
**DCC Level 1 SFRA: Map 5.6**



**Appendix G**  
**Historic Flood Incidence by Source and Floodzones (High Peak Borough)**  
**DCC Level 1 SFRA: Map 3.6**







**Appendix H**  
**Preliminary Drainage Layout**  
**Barratt Homes drawing no. H8797-BAH-XX-XX-DR-CE-300001-P07**



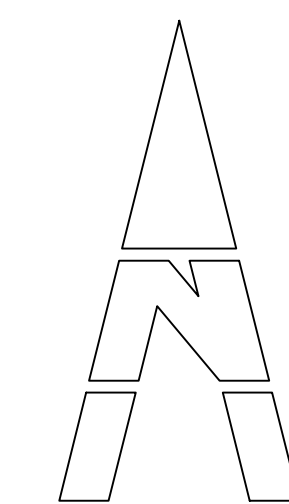
**Warning to House Purchasers**  
Buyers are advised that this is a working drawing and the contents of this drawing may be subject to change during the build process. The layout, form, content, and dimensions specified are included for general guidance only. Purchasers or mortgage lenders may wish to request a professional inspection. Whilst every effort is made to ensure the drawings are up to date, there may be changes to the drawings or the site conditions. Purchasers are advised to check with the developer whether any alterations have been made to this drawing. The contents of this drawing do not constitute a contract, part of any contract or warranty unless specifically incorporated into the contract. They should not be relied upon for the purposes of entering into a contract to purchase any property.

**ENGINEERING LAYOUT NOTES**

1. All adaptable drainage works have been designed and set to be constructed in accordance with "Sewerage Sector Guidance" (Appendix 6 - Design and Construction Guide 4.7.7, and United Utilities Guidelines. Where specification conflicts, UG guidelines shall take precedence.
2. All day pipe work shall be extra strength clayware to BS 295 and BS65 (DN 100).
3. All precast concrete pipework shall be to Class 125 in accordance with BS5911-Part 1, BS EN 1916 and bear the BS 4429 mark.
4. All adaptable drainage to be bedded in Class 5 granular material unless otherwise stated on the inspection.
5. All concrete manhole and soakaway pipes, and concrete cover slabs to be manufactured to BS EN 1917 and BS5911-Part 1.
6. Rising mains to be black polyethylene pipes complying to BS EN 12444-2. Polyethylene fittings, including fusion joints, and electro-fusion fittings and comply with BS EN 12444-2.
7. All levels relate to Ordnance Datum. Contractor to ensure that this drawing is read in conjunction with the site specific topographical survey provided by Barratt Manchester and the benchmark information provided.
8. This drawing is to be read in accordance with all other relevant drawings.
9. The contractor shall be responsible for ensuring that any existing invert levels indicated on the drawings are correct before work commences.
10. All proposed connections to the sewer shall be 150M unless stated otherwise.
11. All private house drainage shall be 100M and all drain-out connections shall be 150M at a minimum gradient of 1:50 unless otherwise stated, and laid in accordance with Part 16 of the Building Regulations.
12. Sewer from private surfaces shall not discharge across the highway, gully or channel and be provided as appropriate to prevent this.
13. From cesspits shall be provided at the inner tangent points of all junctions.
14. Pipes shall be protected from concentrated loading by construction traffic during the construction period when insufficient cover to the pipe may be made from vehicle to damage.
15. Sufficient cover to the road from the level of the road to the level of the drain shall be provided at all proposed construction points. This is to be approved by Derbyshire County Council prior to construction of the road pavement.
16. Groundwater to ensure that all drainage be within the carriage of the pit they serve where possible and inspection covers laid while working when possible.
17. Contractor to provide Sewer Test Water with sufficient notice prior to commencement of sewer works on their inspection telephone number.
18. Contractor to obtain all necessary highway opening notices from Derbyshire County Council, obtain approval to work on United Utilities Sewerage System, obtain approval in writing from the Environment Agency and/or the Local Road Road Authority for any works affecting a watercourse.

**ENGINEERING KEY**

- S1 S104 Adaptable Surface Water, Sewer & Manhole
- Private Surface Water Drain-Out and Invert
- S1 S104 Adaptable Surface Water, Sewer & Manhole
- S104 Adaptable Road Gully
- F1 S104 Adaptable Foul Water Sewer & Manhole
- Private Foul Drain-Out and Invert
- Proposed Adaptable Foul Water Rising Main
- Proposed S104 Sewer Easement
- Proposed Adaptable Foul Water Pumpstation



P07	Updated design to suit planning layout revision Rev 3	01.07.24	CD
P06	Updated design to suit planning layout revision Rev 2	27.06.24	CD
P05	Revised to pump station for the whole site	14.02.24	BAM
P04	Updated design to suit planning layout revision N	09.02.24	BAM

Revision	Description	Date	Design By
P07	Updated design to suit planning layout revision Rev 3	01.07.24	CD
P06	Updated design to suit planning layout revision Rev 2	27.06.24	CD
P05	Revised to pump station for the whole site	14.02.24	BAM
P04	Updated design to suit planning layout revision N	09.02.24	BAM


Project: Hogshaw Farm, Buxton  
Description: Preliminary Drainage Layout  
Drawn By: CD  
Date: Feb 2024  
Scale of AD: 1:500  
Revision: P07  
Project Number: H8797 - BAH - XX  
Drawing Number: -XX-DR-CE-300001  
BARRATT  
Do not scale from this drawing. Work to given dimensions only. Any discrepancies are to be reported to Originator.  
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## **Appendix I**

### **Greenfield Calculations**

JPP Consulting Ltd		Page 1
4, Ironstone Way Brixworth Northampton, NN3 9UD		
Date 06/06/2023 17:15 File 11024R - GREENFIELD_3.7...	Designed by KatherineR Checked by	
Innovyze	Source Control 2020.1.3	
<p style="text-align: center;"><u>ICP SUDS Mean Annual Flood</u></p> <p style="text-align: center;">Input</p> <p>Return Period (years) 100                      Soil 0.500  Area (ha) 3.720                      Urban 0.000  SAAR (mm) 1374    Region Number Region 4</p> <p style="text-align: center;"><b>Results    l/s</b></p> <p>QBAR Rural 45.2  QBAR Urban 45.2</p> <p>Q100 years 116.2</p> <p>Q1 year 37.5  Q30 years 88.6  Q100 years 116.2</p>		
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**Appendix J**  
**Drained Area Plan**  
**JPP Consulting drawing no. 11024-FRA05B**



General notes

All dimensions are in metres unless otherwise stated.

All levels are in metres.

This drawing is to be read in conjunction with all relevant Engineers and Architect's drawings, Specifications, Reports and Engineering Details.

Do not scale from this drawing.

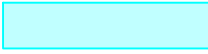
Based on Topographical Land Survey by SurveyEng Ltd, drawing number BH.TS.12 Rev C dated 26.03.2021.

Based on Planning Layout by Barratt Homes, drawing number H8797-BAH-XX-XX-DR-UD-203001-P03 dated 28.06.2024.

Drawing Key



Plot Areas = 5,665m<sup>2</sup>



Driveway Areas = 3,904m<sup>2</sup>



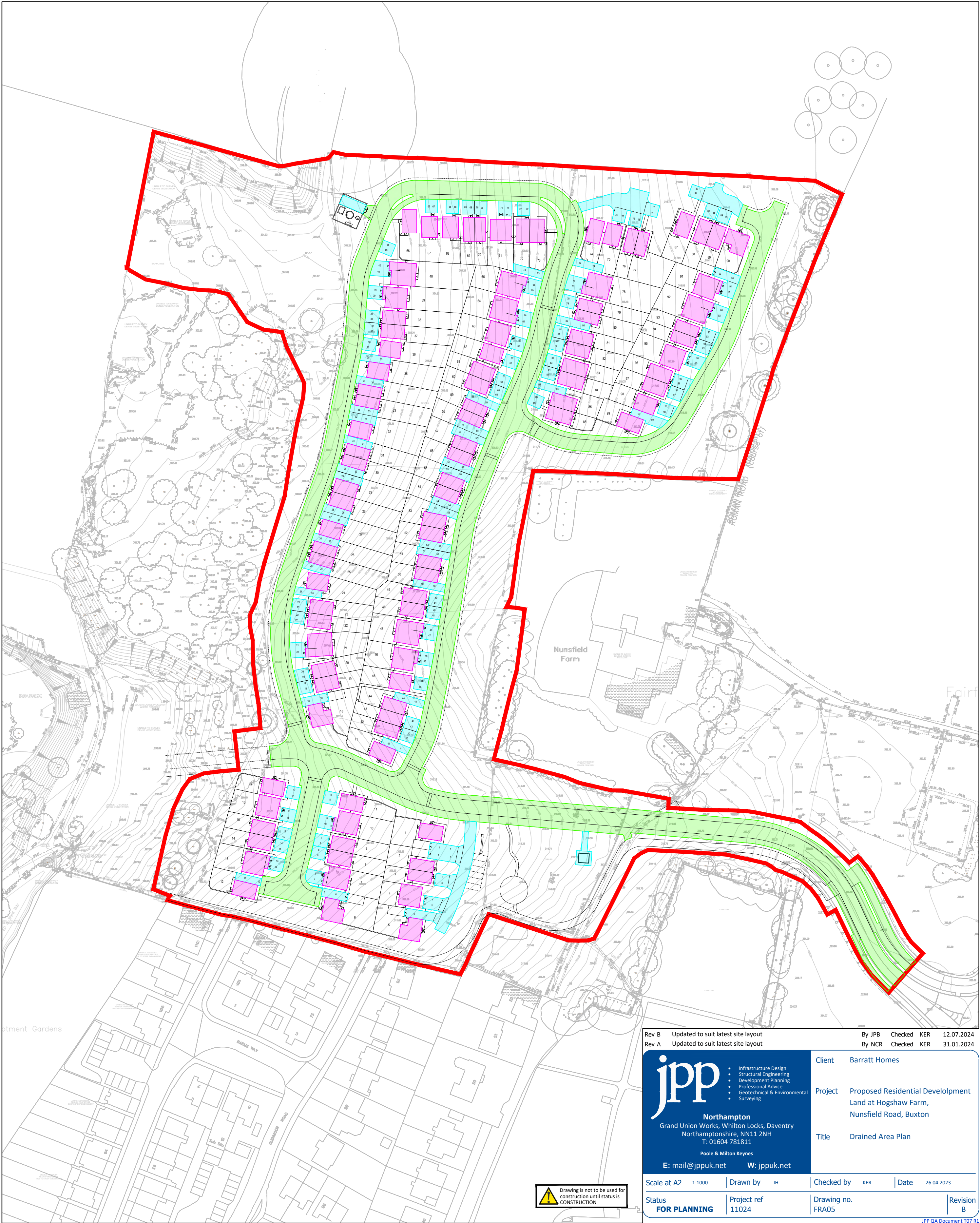
Road Areas = 9,260m<sup>2</sup>

Total Area = 18,829m<sup>2</sup>

10% Urban Creep to Plots = 567m<sup>2</sup>

Total Drained Area including 10% Urban Creep = 19,396m<sup>2</sup>

Site Boundary



Rev B	Updated to suit latest site layout	By JPB	Checked	KER	12.07.2024
Rev A	Updated to suit latest site layout	By NCR	Checked	KER	31.01.2024

**Northampton**  
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- Infrastructure Design
- Structural Engineering
- Development Planning
- Professional Advice
- Geotechnical & Environmental
- Surveying

Client

Barratt Homes

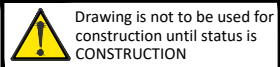
Project

Proposed Residential Development  
Land at Hogshaw Farm,  
Nunsfield Road, Buxton

Title

Drained Area Plan

Scale at A2	1:1000	Drawn by	IH	Checked by	KER	Date	26.04.2023
Status	FOR PLANNING	Project ref	11024	Drawing no.	FRA05	Revision	B








## **Appendix K**

### **Attenuation Calculations**

JPP Consulting Ltd					Page 1		
4, Ironstone Way Brixworth Northampton, NN3 9UD			Hogshaw Farm, Buxton 42.5 l/s 1.940ha inc 10% UC				
Date 12/07/2024 12:12 File 11024R - ATTENUATION__1...			Designed by JPB Checked by KER				
Innovyze			Source Control 2018.1.1				
<u>Summary of Results for 100 year Return Period (+40%)</u>							
<b>Storm Event</b>			<b>Max Level (m)</b>	<b>Max Depth (m)</b>	<b>Max Control (l/s)</b>	<b>Max Volume (m³)</b>	<b>Status</b>
15 min Summer			98.525	0.525	45.1	568.6	O K
30 min Summer			98.627	0.627	45.1	680.2	O K
60 min Summer			98.736	0.736	45.1	797.8	O K
120 min Summer			98.831	0.831	45.1	900.9	O K
180 min Summer			98.863	0.863	45.1	935.1	O K
240 min Summer			98.878	0.878	45.1	952.0	O K
360 min Summer			98.888	0.888	45.1	962.5	O K
480 min Summer			98.881	0.881	45.1	955.4	O K
600 min Summer			98.866	0.866	45.1	938.4	O K
720 min Summer			98.845	0.845	45.1	915.8	O K
960 min Summer			98.790	0.790	45.1	856.5	O K
1440 min Summer			98.662	0.662	45.1	717.6	O K
2160 min Summer			98.502	0.502	45.1	544.2	O K
2880 min Summer			98.390	0.390	45.0	422.3	O K
4320 min Summer			98.270	0.270	42.7	292.4	O K
5760 min Summer			98.232	0.232	35.9	252.0	O K
7200 min Summer			98.209	0.209	31.0	226.8	O K
8640 min Summer			98.192	0.192	27.3	208.4	O K
10080 min Summer			98.179	0.179	24.5	194.4	O K
15 min Winter			98.590	0.590	45.1	639.5	O K
30 min Winter			98.708	0.708	45.1	767.3	O K
<b>Storm Event</b>			<b>Rain (mm/hr)</b>	<b>Flooded Volume (m³)</b>	<b>Discharge Volume (m³)</b>	<b>Time-Peak (mins)</b>	
15 min Summer			164.198	0.0	582.3	18	
30 min Summer			100.796	0.0	717.7	33	
60 min Summer			61.875	0.0	892.8	62	
120 min Summer			37.983	0.0	1097.5	120	
180 min Summer			28.551	0.0	1238.2	166	
240 min Summer			23.316	0.0	1348.8	196	
360 min Summer			17.526	0.0	1521.4	260	
480 min Summer			14.313	0.0	1657.1	330	
600 min Summer			12.232	0.0	1770.5	400	
720 min Summer			10.759	0.0	1868.9	470	
960 min Summer			8.754	0.0	2027.5	608	
1440 min Summer			6.545	0.0	2273.0	866	
2160 min Summer			4.894	0.0	2558.3	1228	
2880 min Summer			3.982	0.0	2774.5	1560	
4320 min Summer			2.943	0.0	3070.9	2208	
5760 min Summer			2.374	0.0	3313.1	2944	
7200 min Summer			2.010	0.0	3505.4	3672	
8640 min Summer			1.755	0.0	3669.9	4408	
10080 min Summer			1.564	0.0	3811.9	5136	
15 min Winter			164.198	0.0	653.7	18	
30 min Winter			100.796	0.0	805.3	32	
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