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Key

Drainage Methods

- Roof drainage to trench soakaways with overflows to pipe system.
Highway drainage to pipe system.
- Roof drainage to soakaways.
Highway drainage to pipe system.
- All runoff directly to infiltration systems.
- All runoff to downstream pipe system.
- Roof drainage to pipe system, car parking and access areas to pervious paving.

Basin Catchments

- Basin 1 Catchment
- Basin 2 Catchment
- Basin 3 Catchment
- Basin 5 Catchment

Rev	Date	Description	Initials
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Client



Project

Land at Old Sarum

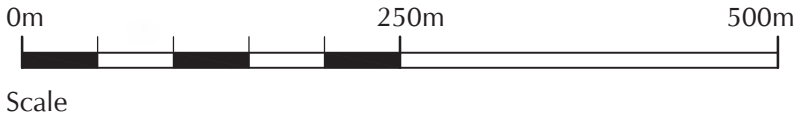
Drawing Title

Surface Water
Drainage Strategy

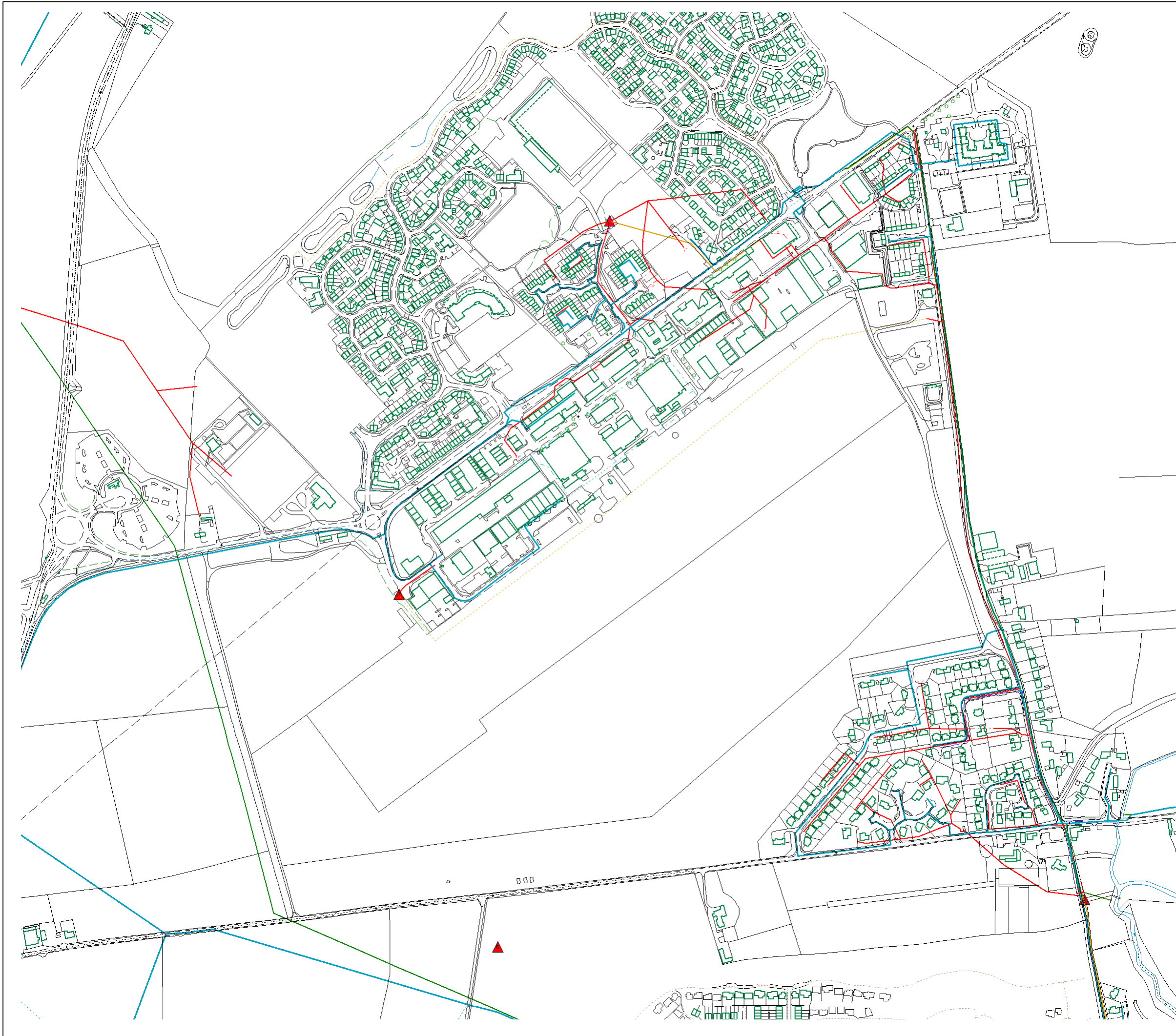
Drawing No.

P609/12

Date	12/11/12
Scale	1:5000 @ A3
Drawn By	GP
Checked By	MS
E-Mail	mskivington@pfapl.com
File Ref.	P609\Drawings\P609_12.dwg



Appendix 3



N

W

E

S



Wessex
Water
a YTL company

WW Map 15_04004_OUT

Printed on : 21/07/2015 15:46

WATER MAINS

Public

Private

Public

Raw Water

Abandoned

Valve

Hydrant

PRV

Meter

SEWERS

Public

Section 104

Private

Foul

Combined

Surface

Abandoned sewers

OTHER WESSEX PIPES

Rising Mains

Effluent Disposal Main

Overflow

NON-WESSEX PIPES

Private Rising Mains

Culverted Water Course

Highway Drain

Information in this plan is provided for identification purposes only. No warranty as to accuracy is given or implied. The precise route of pipe work may not exactly match that shown. Wessex Water does not accept liability for inaccuracies.

Sewers and lateral drains adopted by Wessex Water under the Water Industry (Schemes for Adoption of Private Sewers) Regulations 2011 are to be plotted over time and may not yet be shown.

In carrying out any works, you accept liability for the cost of any repairs to Wessex Water apparatus damaged as a result of your works. You are advised to commence excavations using hand tools only. Mechanical digging equipment should not be used until pipe work has been precisely located.

If you are considering any form of building works and pipe work is shown within the boundary of your property or a property to be purchased (or very close by) a surveyor should plot its exact position prior to commencing works or purchase. Building over or near Wessex Water's apparatus is not normally permitted.

Centre:415150.66 , 133341.77

Scale = 1:5495

Metres

100

200

300

Outline application with all matters reserved, except from the means of access to the site for the demolition, modification and renovation of existing buildings, structures and site development. Provision of approximately 22.2ha of residential land accommodating approximately 480 residential dwellings (including 10 residential hangars). Provision for a mixture of employment, commercial / leisure , residential and aviation uses on 5.6ha of land at Area , including a flying hub comprising a control tower, heritage centre, visitor centre, café/restaurant, parachute centre, aviation archives and aircraft hangars. Provision of associated access, including the construction of new points of vehicles access to the surrounding highways network, car parking and connections to the surrounding footpath and cycle networks. green infrastructure and utilities provision, including the provision of above and below ground utilities, including a sustainable urban drainage system. Associated vegetation removal, ground modification and engineering works. Old Sarum Airfield Limited, Lancaster Road, Old Sarum, Salisbury, Wiltshire, SP4 6DZ

I refer to your letter of 22nd June inviting comments on the above proposed development and advise the following on behalf of Wessex Water as sewerage and water supply undertaker for the area in question:

Please find attached an extract from our records showing the approximate location of our apparatus within the vicinity of the site.

The site will be served by separate systems of drainage constructed to current adoptable standards please see Wessex Water's [S104 adoption of new sewer guidance DEV011G](#) for further guidance.

Further appraisal needs to be undertaken to consider the foul drainage arrangements for the site. There is limited available capacity for predicted foul flows from the site, initial comments from our engineer as follows which will need to be considered further by network modelling commissioned by the applicant:

“The obvious discharge point for the western site is Castle Gate Business Park Sewage Pumping Station to the east, but this is private and not yet adopted. It is anticipated that this station and rising main will transfer to Wessex Water in October 2016. Once adopted we will be able to analyse the available capacity and possibly update/ divert as part of offsite capacity improvements for the development site.

The site to the East will drain to the system to the east and ultimately in to Green lane sewers and Sewage Pumping Station. This system accommodates development flows from the new residential development to the north of this proposal. It is vital that any further flows from this new site are modelled and incorporated in such a way that the existing system is not compromised.”

As a foul drainage strategy has yet to be determined or agreed we request a planning condition should the application be approved:

Foul Water - Planning Condition

The development shall not be commenced until a foul water drainage strategy is submitted and approved in writing by the local Planning Authority in consultation with Wessex Water acting as the sewerage undertaker

- a drainage scheme shall include appropriate arrangements for the agreed points of connection and the capacity improvements required to serve the proposed development phasing
- the drainage scheme shall be completed in accordance with the approved details and to a timetable agreed with the local planning authority.

Reason: To ensure that proper provision is made for sewerage of the site and that the development does not increase the risk of sewer flooding to downstream property

It is proposed to discharge surface water via SuDs arrangements which will require the approval of the LLFA.

Water Supply

Due to recent development within the area Wessex Water is modelling the impact of the proposal upon the local water supply network. Wessex Water is considering two possible options for connection arrangements which require further appraisal work. Appraisal will consider the preferred option in terms of supplying the development whilst maintaining level of service to existing customers and supporting operational requirements.

If off site reinforcement is needed the cost can be considered under Section 41 of the Water Industry Act under requisition arrangements

I trust that you will find the above comments of use, however, please do not hesitate to contact me if you require further information or clarification.

Gillian Sanders

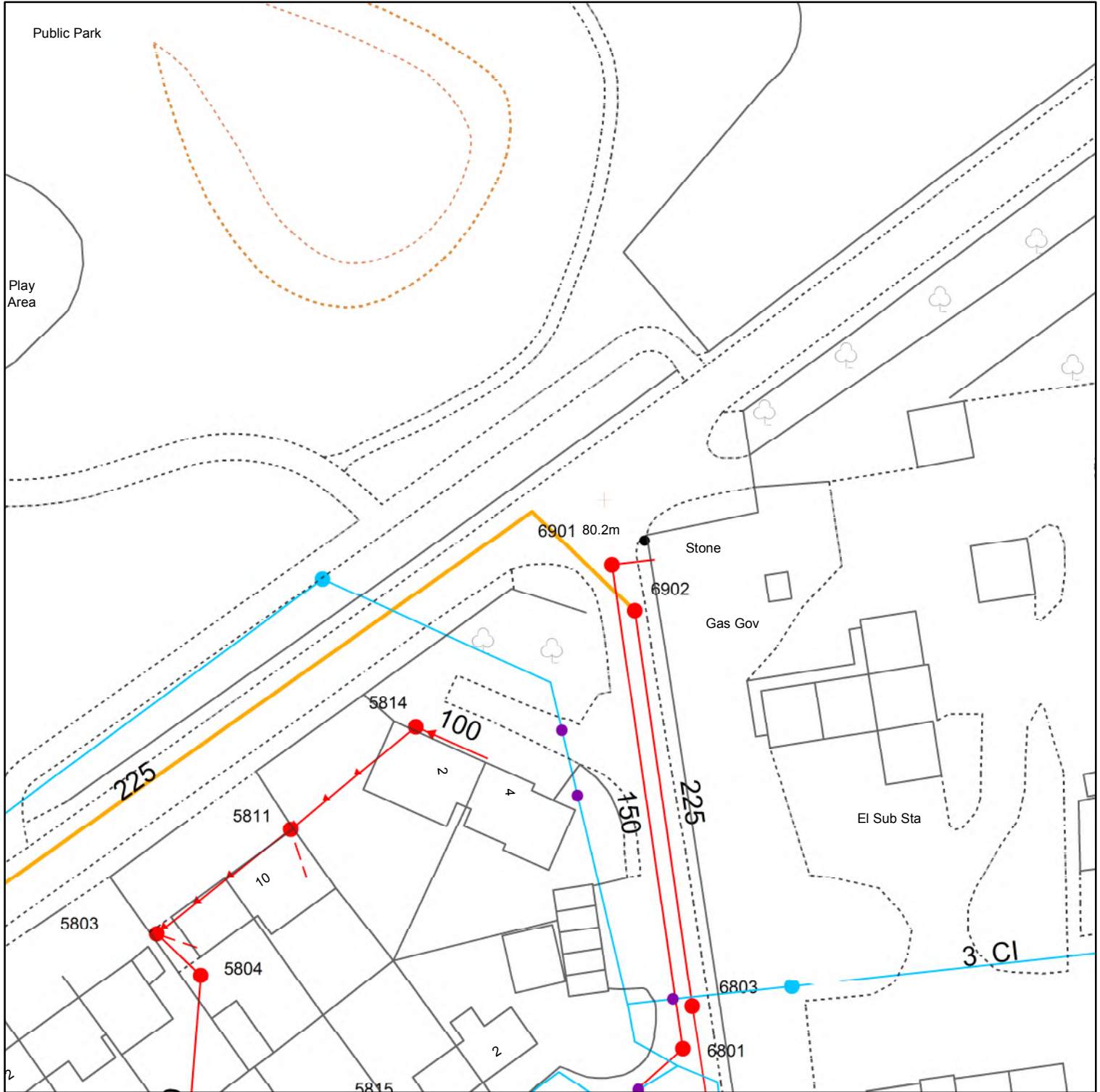
Planning Liaison

Phone: 01225 526303

Fax: 01225 528000

e-mail: gillian.sanders@wessexwater.co.uk

Wessex Water Network Map

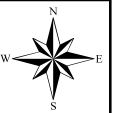


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WATER MAINS		SEWERS		STRATEGIC		PUBLIC		PRIVATE		SECTION 104		OTHER WESSEX PIPES		NON-WESSEX / UNKNOWN	
	Distribution		Foul										Rising Mains		Private Rising Mains
	Washout		Surface										EDM Effluent Disposal		Culverted Watercourse
	Raw Water		Combined										Overflow		Highway Drain
	Abandoned		Abandoned										Syphon		Use Unknown
	Private														Status Unknown
Colours generally indicate the use of the sewer/drain (i.e Red - Foul, Dark Blue - Surface, Magenta - Combined/Dual Use, Light Green - Highway Drain, Mid Green - Overflow). Some styles of line and symbol are shown on the key in sample/typical colours.															
FITTINGS		STRUCTURES													
	Hydrant		Manhole - Foul		Pumping Station - Surface										
	Other		Manhole - Surface		Pumping Stn - Foul/Combined										
			Manhole - Combined		Gully										
			Inlet		Vent Column										
			Outfall		Rodding Eye										
			Lamphole		Catchpit										
			Bifurcation - Foul		Flushing Chamber										
			Bifurcation - Surface		Soakaway										
			Bifurcation - Combined		Non Return Valve										
			Combined Sewage Overflow		Air Valve										
					Hatch Box										
					Washout										
OTHER STRUCTURES Attenuation Tank Chamber Storage Tank Tunnel Interceptor															

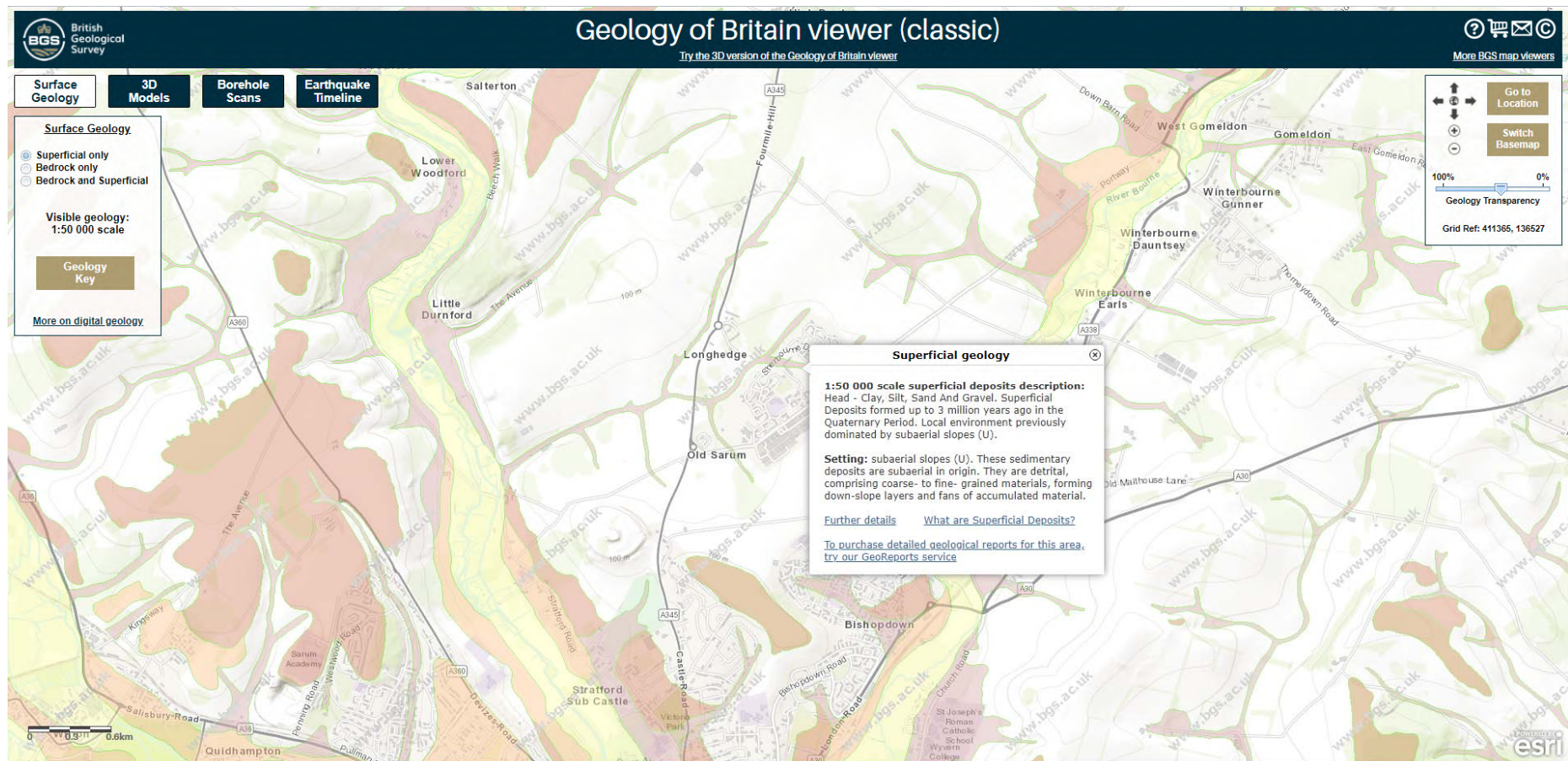
Information in this map is provided for identification purposes only. No warranty as to accuracy is given or implied. The precise route of pipe work may not exactly match that shown. Wessex Water does not accept liability for inaccuracies. Sewers and lateral drains adopted by Wessex Water under the Water Industry (Schemes for Adoption of Private Sewers) Regulations 2011 are to be plotted over time and may not yet be shown. In carrying out any works, you accept liability for the cost of any repairs to Wessex Water apparatus damaged as a result of your works. You are advised to commence excavations using hand tools only. Mechanical digging equipment should not be used until pipe work has been precisely located. If you are considering any form of building works and pipe work is shown within the boundary of your property or a property to be purchased (or very close by) a surveyor should plot its exact position prior to commencing works or purchase. If you are proposing to build over or near Wessex Water's apparatus you should contact the Developer Services Team, tel: 01225 526333 or e-mail: developer.enquiries@wsexwater.co.uk to discuss your proposals. Details of assets within Wessex Water's land ownership are unavailable through this service.

Date: 26/02/2021
Centre: 415612, 133917
Scale: 1:625
(when printed at A4 size)



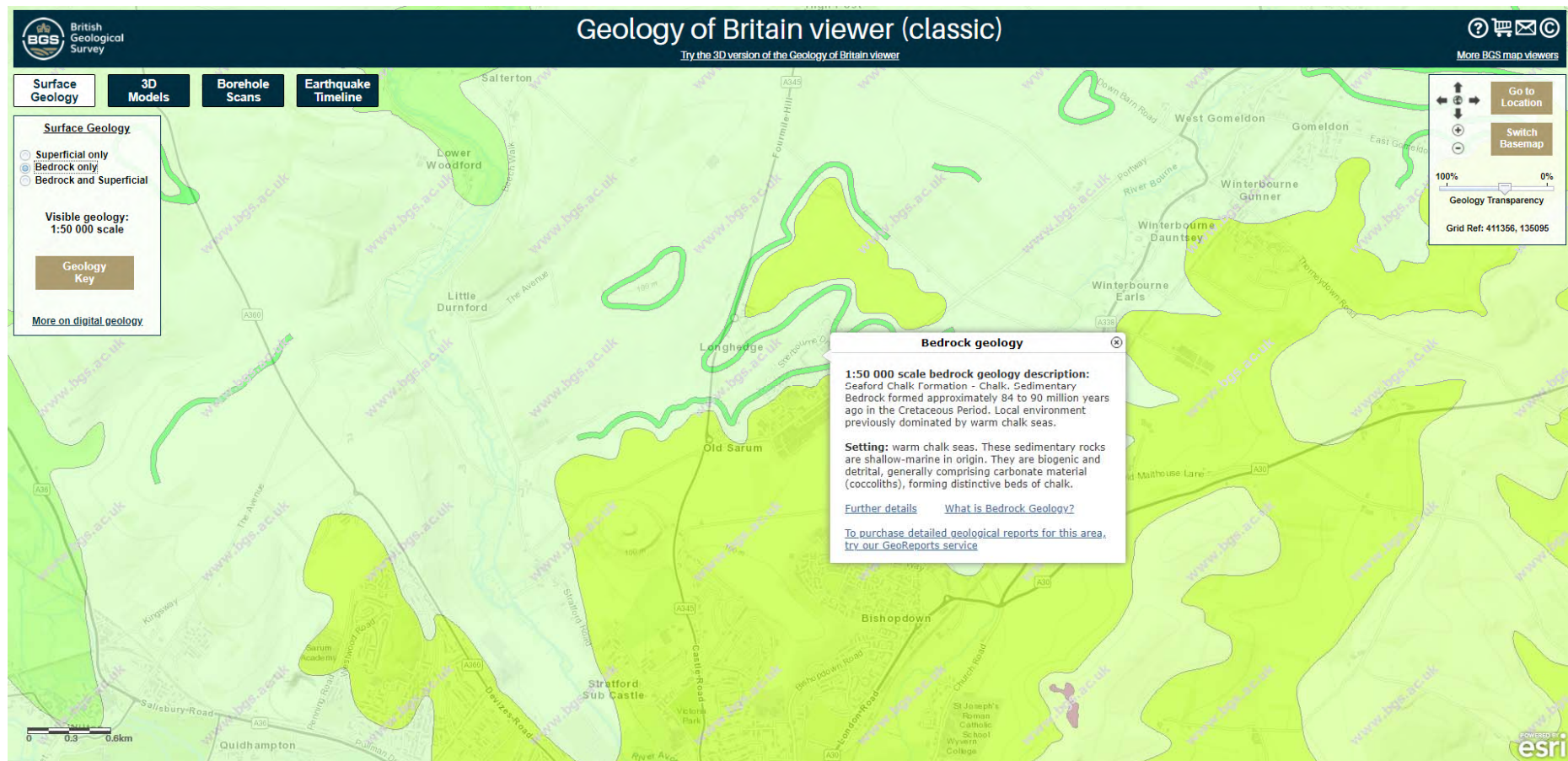
Appendix 4

British Geological Survey - Superficial Deposits



Contains British Geological Survey materials ©NERC [2021]

British Geological Survey - Bedrock Geology



Contains British Geological Survey materials ©NERC [2021]



6.6 Pavement Design

The Mexecon testing has given CBR values of generally up to between 4% and 6% to depths of 200mm to 300mm beneath which they increase to at least 10%. A CBR value of 10% is therefore recommended for pavement design.

It should be noted that chalk is likely to be frost susceptible. It is therefore recommended that at least 450mm cover should be provided above the sub-grade, or 350mm if the Mean Annual Frost Index (MAFI) of the site is less than 50.

6.7 Protection of Buried Concrete

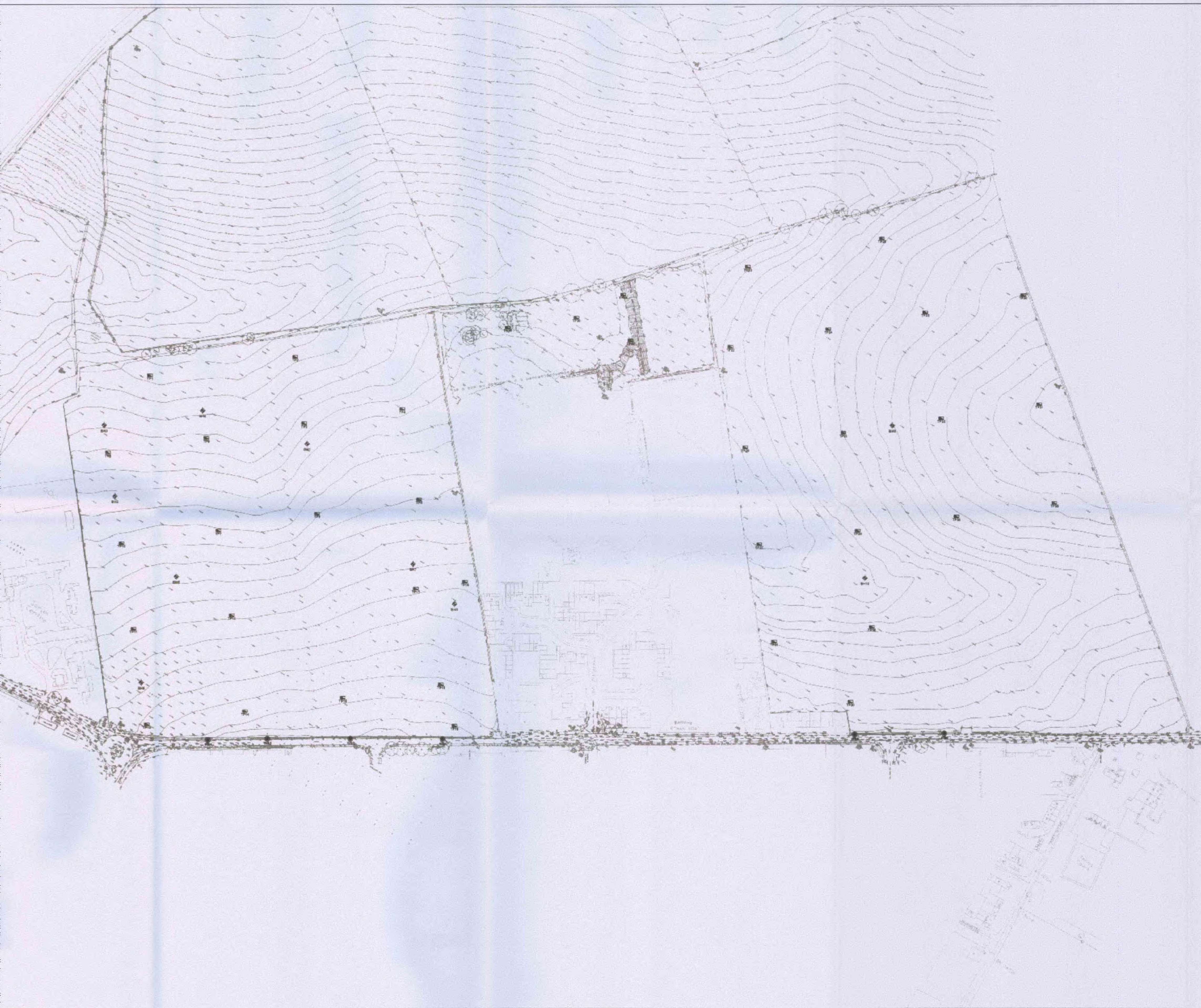
The water-soluble sulphate results for soil fall into Design Sulphate Class DS-1 in Table 2 of BRE Special Digest 1 (Ref 8.4).

The site is classed as natural and groundwater is static. pH values varying from 7.76 to 9.5 were recorded indicating alkaline soil pH conditions. Therefore according to Table 2 the Aggressive Chemical Environment for Concrete (ACEC) class is AC-1s and the designer should utilise this classification in order to produce the concrete specification.

6.8 Soakaways

Soakaway tests were performed in fifteen of the trial pits, giving the following infiltration coefficients. All the tests were carried out in structured chalk.

Trial Pit No	Infiltration Coefficient (m/sec)	Trial Pit No	Infiltration Coefficient (m/sec)
TP1	1.21×10^{-4}	TP22	2.30×10^{-4}
TP2	1.25×10^{-4}	TP23	8.62×10^{-5}
TP4	9.35×10^{-5}	TP29	9.20×10^{-5}
TP9	7.50×10^{-5}	TP30	4.69×10^{-5}
TP10	2.22×10^{-5}	TP33	1.30×10^{-4}
TP14	1.27×10^{-5}	TP35	1.21×10^{-4}
TP16	1.69×10^{-5}	TP38	2.67×10^{-4}
TP21	7.64×10^{-5}		



Legend :	
	Borehole position
	Trialpit position
	Window sample position

Client :
Persimmon Homes

Engineer :
PFA Consulting

Contractor:
**STRUCTURAL
SOILS LTD**

Project Title: **41367**
OLD SARUM, SALISBURY

Drawing Title:
EXPLORATORY HOLE LOCATION PLAN

Drawn By: MB Date: 08/03/2005

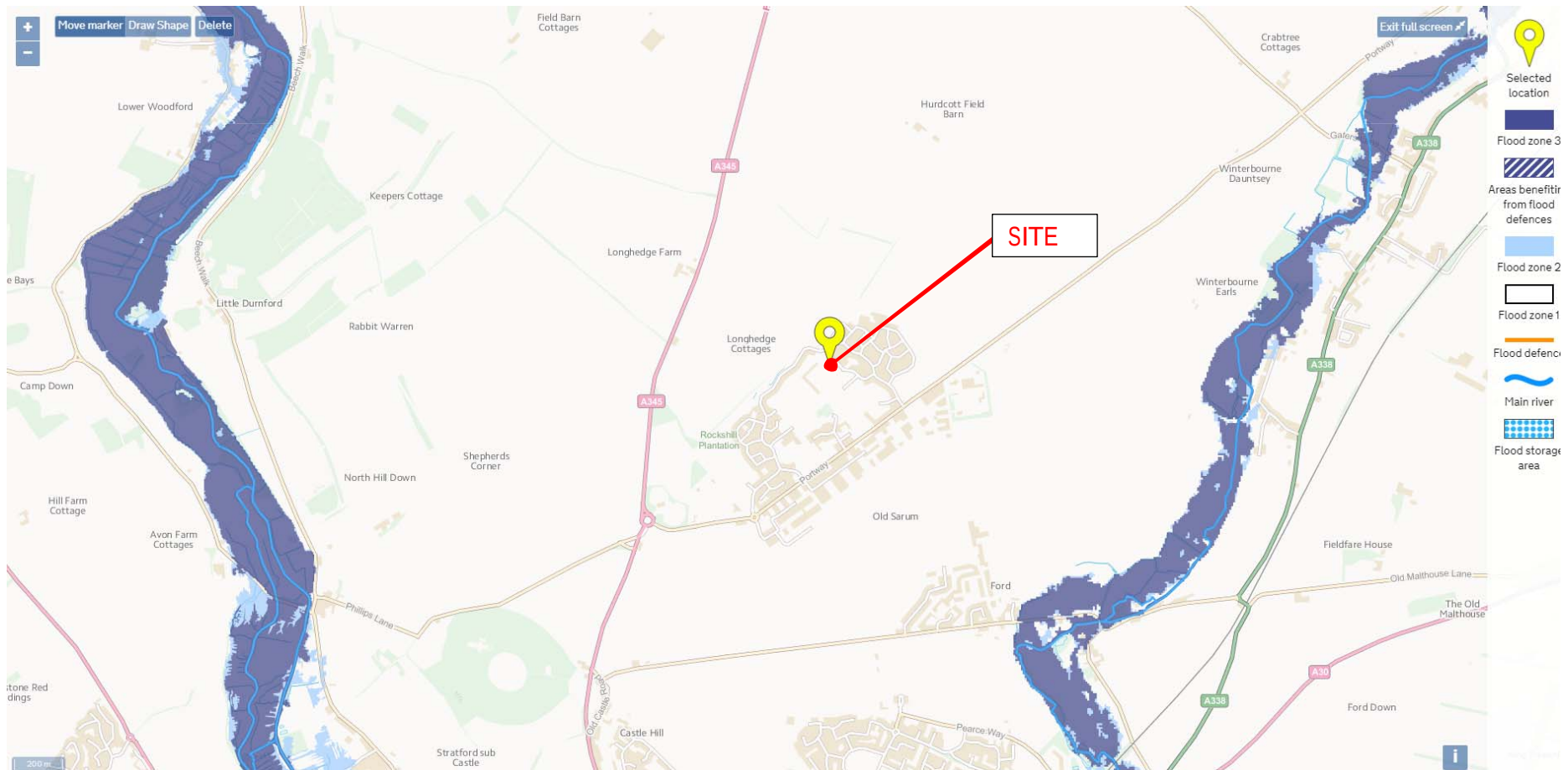
Checked By: JS Date: 08/03/2005

Drawing Number: **FIGURE 2** Version: **v1**

Dwg Scale: **1:2000 @ A1** Dwg Status: **FINAL**

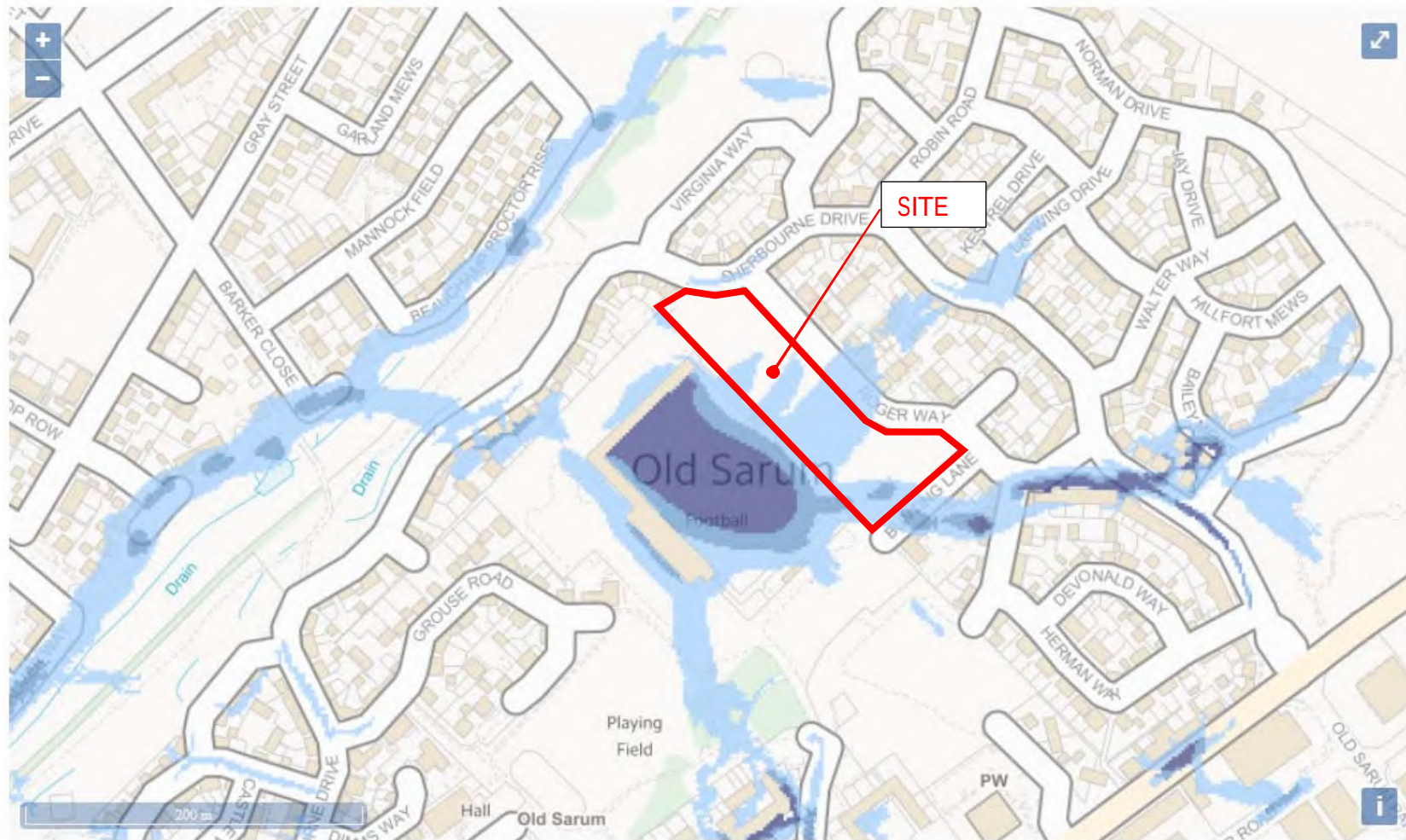
Appendix 5

Environment Agency's Flood Map



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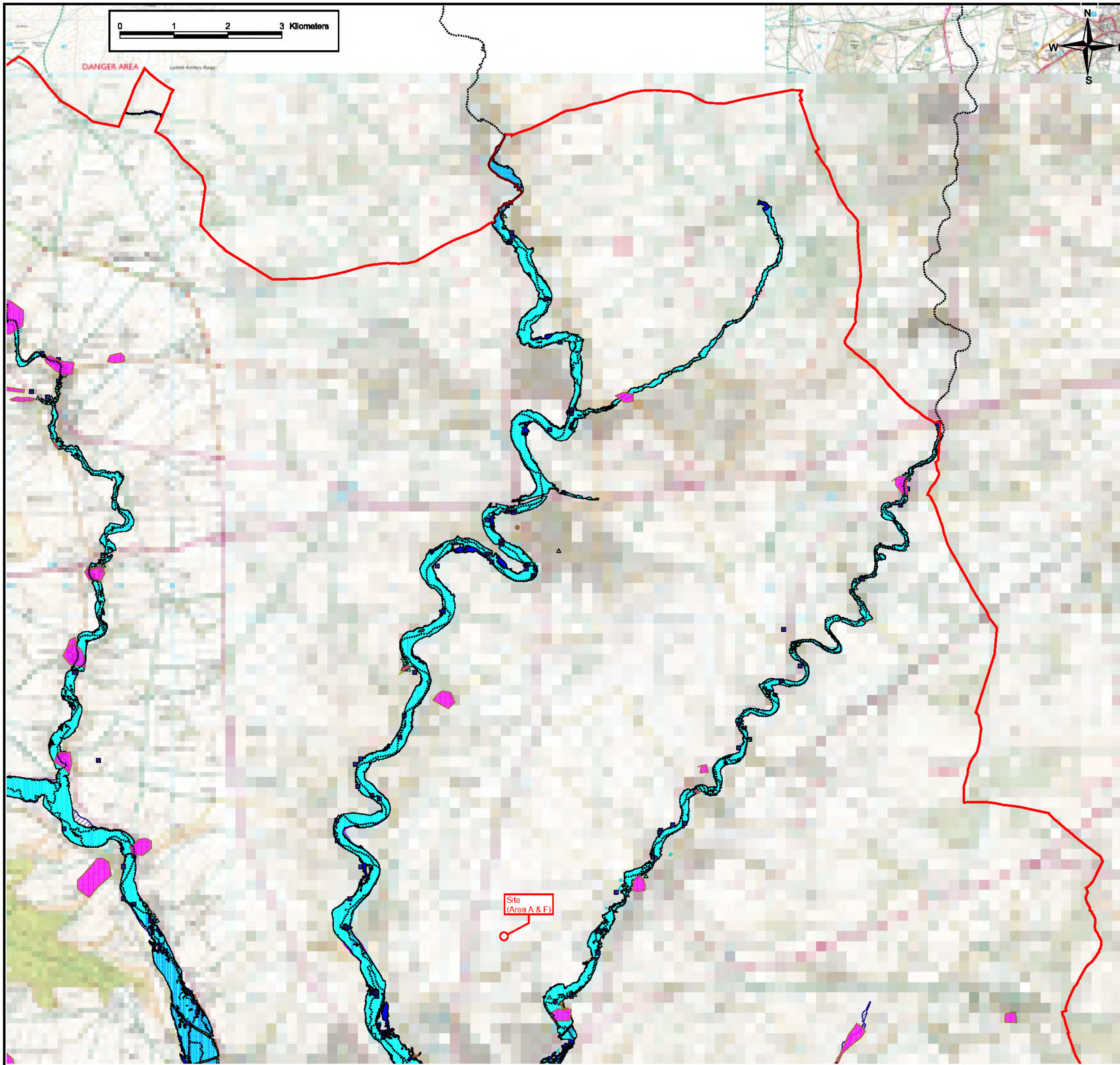
Environment Agency Surface Water Flood Map



Extent of flooding from surface water

High Medium Low Very low

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This map is to be used in conjunction with the SFRA report and GIS files for application of the Sequential Test. This test is the most important flood risk management tool for spatial planning, as it implements the high level measures of avoidance / prevention and substitution.

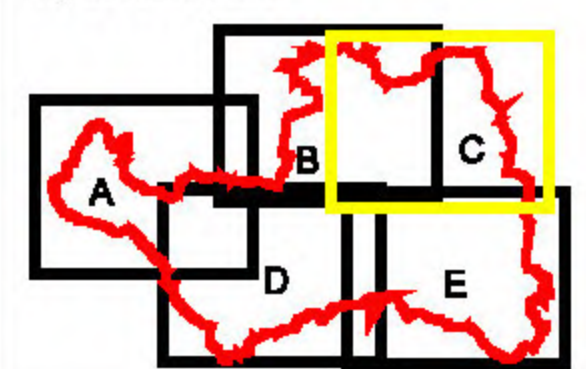
A Planning Authority applies the Sequential Test to demonstrate that there are no reasonably available sites in areas of lower flood risk that would be appropriate to the type of development or land use proposed. Preference should be given to locating new development in Flood Zone 1. If there is no reasonably available site in Flood Zone 1, the flood vulnerability of the proposed development can be taken into account in locating development in Flood Zone 2 and then Flood Zone 3. Within each Flood Zone new development should be directed to sites with lower flood risk from all sources as indicated by the SFRA.



PPS25: Flood Zones Definition

The map is to be used in conjunction with the SFRA report and GIS files for application of the Sequential Test. This test is the most important flood risk management tool for spatial planning, as it implements the high level measures of avoidance / prevention and substitution.

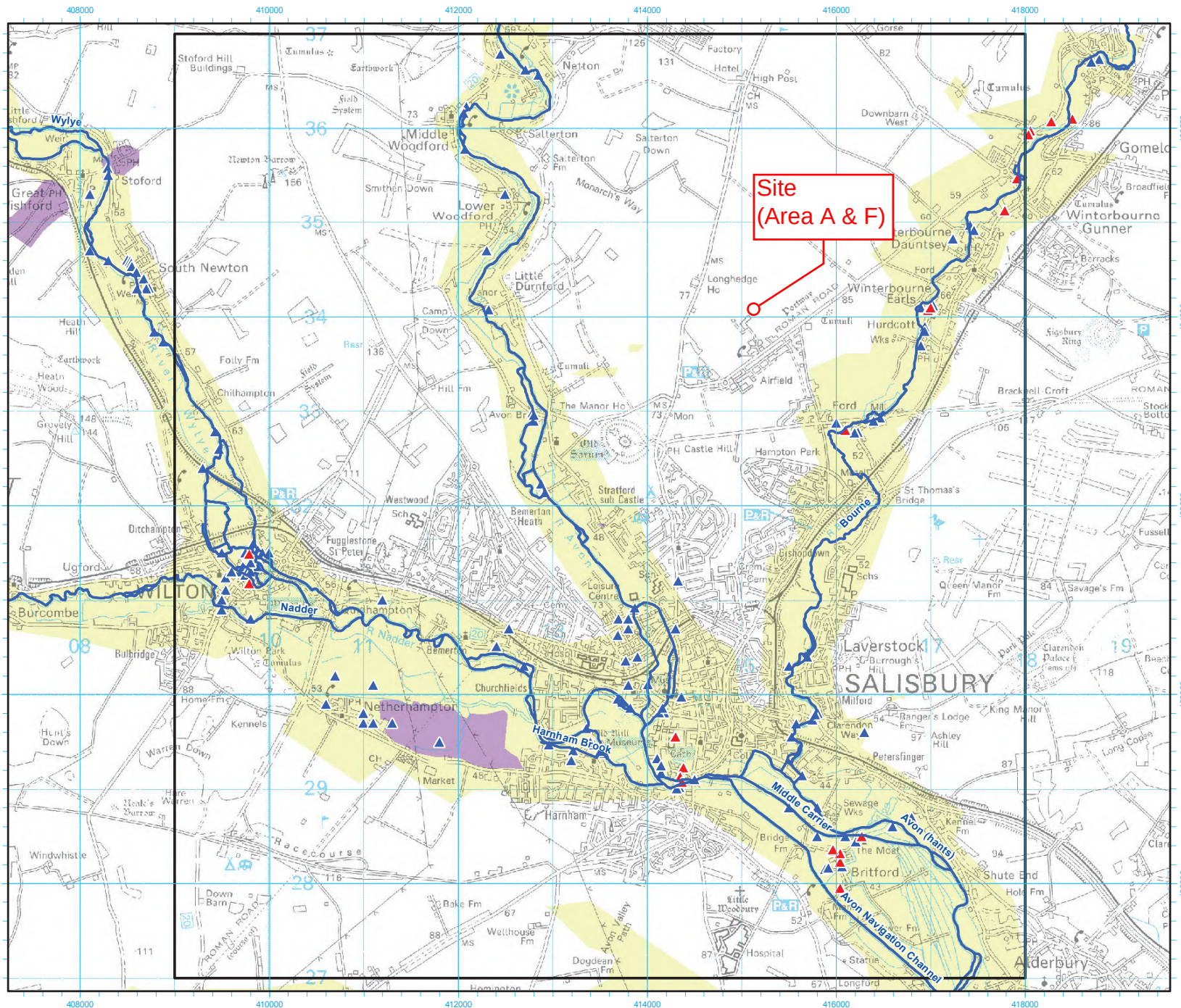
Key Location Plan:



PPS25: Flood Risk Vulnerability Classification

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Filepath: K:\pos\133229 Wilshire Council SWMP\700 Technical\711 GIS\01 Layout\Chippenham



OS data Licence © Crown copyright. All rights reserved. "2010" Licence number 0100031673
Digital geological map data reproduced from British Geological Survey (c) NERC

Base Map Details
Projection: Transverse Mercator
Scale Factor: 0.999601
Origin: 2° West, 49° North
Coordinates: 400000 - 100000
Units: metres
Datum: OSGB 1936

0 0.3 0.6 1.2 1.8
Kilometers

THIS DRAWING MAY BE USED ONLY FOR
THE PURPOSE INTENDED

Legend

- Salisbury Study Area
- Main River
- Historic Flood Events**
 - Recorded as Groundwater Flooding Incident
 - Other
 - 1 in 20 year Groundwater Flooding
 - Potential for Elevated Groundwater (<4 m bgl)

NOTES

This map forms an approximate guide to potential for elevated groundwater levels, based on outputs from the EA regional groundwater model. The yellow shaded area identifies locations where groundwater levels could reach within 4m of ground surface.

Drawing Status

DRAFT

Job Title

Salisbury
Surface Water Management Plan

Drawing Title

Potential for Elevated Groundwater
Levels and Historic Flood Events

Scale at A3

1:41,000

Drawn by

TJM

Date

31/03/11

Approved

SJC

Date

5/04/11

Scott Wilson

Scott House, Alencon Link,
Basingstoke, Hants, RG21 7PP
Telephone (01256) 310 200
www.scottwilson.com



FIGURE 5

Appendix 6

Cole Easdon Consultants		Page 1
York House Edison Park Dorcan Way Swindon SN3 3RB	Parcel A&F, Old Sarum Greenfield Runoff	
Date 24/02/2021 10:25	Designed by NP	
File 5598 - PARCEL A&F, GREEN...	Checked by RB	
Elstree Computing Ltd		Source Control 2018.1.1

ICP SUDS Mean Annual Flood

Input

Return Period (years) 100 SAAR (mm) 875 Urban 0.000
Area (ha) 1.000 Soil 0.150 Region Number Region 7

Results 1/s

QBAR Rural 0.5
QBAR Urban 0.5

Q100 years 1.7

Q1 year 0.4
Q30 years 1.2
Q100 years 1.7

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York House Edison Park Dorcan Way Swindon SN3 3RB	Parc E&F, Old Sarum Soakaway Design 75m2 drainage area	
Date 11/02/2021 13:06	Designed by NP	
File 5598 - Parcel E&F, Cellu...	Checked by RB	
Elstree Computing Ltd		Source Control 2018.1.1

Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 510 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	98.718	0.318	0.1	1.8	O K
30 min Summer	98.823	0.423	0.1	2.4	O K
60 min Summer	98.930	0.530	0.1	3.0	O K
120 min Summer	99.029	0.629	0.1	3.6	O K
180 min Summer	99.074	0.674	0.1	3.8	O K
240 min Summer	99.094	0.694	0.1	4.0	O K
360 min Summer	99.105	0.705	0.1	4.0	O K
480 min Summer	99.105	0.705	0.1	4.0	O K
600 min Summer	99.101	0.701	0.1	4.0	O K
720 min Summer	99.095	0.695	0.1	4.0	O K
960 min Summer	99.078	0.678	0.1	3.9	O K
1440 min Summer	99.038	0.638	0.1	3.6	O K
2160 min Summer	98.979	0.579	0.1	3.3	O K
2880 min Summer	98.925	0.525	0.1	3.0	O K
4320 min Summer	98.832	0.432	0.1	2.5	O K
5760 min Summer	98.755	0.355	0.1	2.0	O K
7200 min Summer	98.692	0.292	0.1	1.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	123.913	0.0	19
30 min Summer	83.311	0.0	33
60 min Summer	53.483	0.0	64
120 min Summer	33.167	0.0	122
180 min Summer	24.715	0.0	182
240 min Summer	19.918	0.0	240
360 min Summer	14.640	0.0	350
480 min Summer	11.765	0.0	404
600 min Summer	9.922	0.0	466
720 min Summer	8.627	0.0	528
960 min Summer	6.913	0.0	664
1440 min Summer	5.050	0.0	940
2160 min Summer	3.681	0.0	1360
2880 min Summer	2.937	0.0	1760
4320 min Summer	2.133	0.0	2548
5760 min Summer	1.698	0.0	3288
7200 min Summer	1.421	0.0	4040

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York House Edison Park Dorcan Way Swindon SN3 3RB	Parc E&F, Old Sarum Soakaway Design 75m2 drainage area	
Date 11/02/2021 13:06	Designed by NP	
File 5598 - Parcel E&F, Cellu...	Checked by RB	
Elstree Computing Ltd		Source Control 2018.1.1

Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
8640 min Summer	98.640	0.240	0.1	1.4	O K
10080 min Summer	98.596	0.196	0.1	1.1	O K
15 min Winter	98.757	0.357	0.1	2.0	O K
30 min Winter	98.875	0.475	0.1	2.7	O K
60 min Winter	98.997	0.597	0.1	3.4	O K
120 min Winter	99.111	0.711	0.1	4.1	O K
180 min Winter	99.164	0.764	0.1	4.4	O K
240 min Winter	99.191	0.791	0.1	4.5	O K
360 min Winter	99.210	0.810	0.1	4.6	O K
480 min Winter	99.210	0.810	0.1	4.6	O K
600 min Winter	99.203	0.803	0.1	4.6	O K
720 min Winter	99.196	0.796	0.1	4.5	O K
960 min Winter	99.173	0.773	0.1	4.4	O K
1440 min Winter	99.115	0.715	0.1	4.1	O K
2160 min Winter	99.028	0.628	0.1	3.6	O K
2880 min Winter	98.949	0.549	0.1	3.1	O K
4320 min Winter	98.818	0.418	0.1	2.4	O K
5760 min Winter	98.716	0.316	0.1	1.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
8640 min Summer	1.230	0.0	4760
10080 min Summer	1.089	0.0	5456
15 min Winter	123.913	0.0	19
30 min Winter	83.311	0.0	33
60 min Winter	53.483	0.0	62
120 min Winter	33.167	0.0	120
180 min Winter	24.715	0.0	178
240 min Winter	19.918	0.0	234
360 min Winter	14.640	0.0	346
480 min Winter	11.765	0.0	450
600 min Winter	9.922	0.0	484
720 min Winter	8.627	0.0	558
960 min Winter	6.913	0.0	712
1440 min Winter	5.050	0.0	1022
2160 min Winter	3.681	0.0	1452
2880 min Winter	2.937	0.0	1876
4320 min Winter	2.133	0.0	2684
5760 min Winter	1.698	0.0	3464

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York House Edison Park Dorcan Way Swindon SN3 3RB	Parc E&F, Old Sarum Soakaway Design 75m2 drainage area	
Date 11/02/2021 13:06	Designed by NP	
File 5598 - Parcel E&F, Cellu...	Checked by RB	
Elstree Computing Ltd		Source Control 2018.1.1

Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
7200 min Winter	98.634	0.234	0.1	1.3	O K
8640 min Winter	98.569	0.169	0.0	1.0	O K
10080 min Winter	98.518	0.118	0.0	0.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
7200 min Winter	1.421	0.0	4184
8640 min Winter	1.230	0.0	4928
10080 min Winter	1.089	0.0	5640

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York House Edison Park Dorcan Way Swindon SN3 3RB	Parc E&F, Old Sarum Soakaway Design 75m2 drainage area	
Date 11/02/2021 13:06	Designed by NP	
File 5598 - Parcel E&F, Cellu...	Checked by RB	
Elstree Computing Ltd		Source Control 2018.1.1

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	18.900	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.008

Time (mins) Area
From: To: (ha)

0 4 0.008

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York House Edison Park Dorcan Way Swindon SN3 3RB	Parc E&F, Old Sarum Soakaway Design 75m2 drainage area	
Date 11/02/2021 13:06	Designed by NP	
File 5598 - Parcel E&F, Cellu...	Checked by RB	
Elstree Computing Ltd	Source Control 2018.1.1	

Model Details

Storage is Online Cover Level (m) 100.000

Cellular Storage Structure

Invert Level (m) 98.400 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.04572 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.04572

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	6.0	6.0	0.800	6.0	13.8

Cole Easdon Consultants		Page 1
York House Edison Park Dorcan Way Swindon SN3 3RB	Parc E&F, Old Sarum Soakaway Design 100m2 drainage area	
Date 26/02/2021 13:21	Designed by NP	
File 5598 - Parcel A&F, Cellu...	Checked by RB	
Elstree Computing Ltd		Source Control 2018.1.1

Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 482 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	98.672	0.272	0.1	1.8	O K
30 min Summer	98.761	0.361	0.1	2.4	O K
60 min Summer	98.852	0.452	0.1	3.0	O K
120 min Summer	98.936	0.536	0.1	3.6	O K
180 min Summer	98.972	0.572	0.1	3.8	O K
240 min Summer	98.988	0.588	0.1	3.9	O K
360 min Summer	98.995	0.595	0.1	4.0	O K
480 min Summer	98.993	0.593	0.1	3.9	O K
600 min Summer	98.989	0.589	0.1	3.9	O K
720 min Summer	98.982	0.582	0.1	3.9	O K
960 min Summer	98.966	0.566	0.1	3.8	O K
1440 min Summer	98.929	0.529	0.1	3.5	O K
2160 min Summer	98.875	0.475	0.1	3.2	O K
2880 min Summer	98.826	0.426	0.1	2.8	O K
4320 min Summer	98.741	0.341	0.1	2.3	O K
5760 min Summer	98.672	0.272	0.1	1.8	O K
7200 min Summer	98.616	0.216	0.1	1.4	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	123.913	0.0	19
30 min Summer	83.311	0.0	33
60 min Summer	53.483	0.0	62
120 min Summer	33.167	0.0	122
180 min Summer	24.715	0.0	182
240 min Summer	19.918	0.0	240
360 min Summer	14.640	0.0	344
480 min Summer	11.765	0.0	398
600 min Summer	9.922	0.0	462
720 min Summer	8.627	0.0	524
960 min Summer	6.913	0.0	662
1440 min Summer	5.050	0.0	938
2160 min Summer	3.681	0.0	1344
2880 min Summer	2.937	0.0	1756
4320 min Summer	2.133	0.0	2512
5760 min Summer	1.698	0.0	3288
7200 min Summer	1.421	0.0	4032

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York House Edison Park Dorcan Way Swindon SN3 3RB	Parc E&F, Old Sarum Soakaway Design 100m2 drainage area	
Date 26/02/2021 13:21	Designed by NP	
File 5598 - Parcel A&F, Cellu...	Checked by RB	
Elstree Computing Ltd		Source Control 2018.1.1

Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
8640 min Summer	98.570	0.170	0.1	1.1	O K
10080 min Summer	98.534	0.134	0.1	0.9	O K
15 min Winter	98.706	0.306	0.1	2.0	O K
30 min Winter	98.806	0.406	0.1	2.7	O K
60 min Winter	98.910	0.510	0.1	3.4	O K
120 min Winter	99.006	0.606	0.1	4.0	O K
180 min Winter	99.050	0.650	0.1	4.3	O K
240 min Winter	99.071	0.671	0.1	4.5	O K
360 min Winter	99.085	0.685	0.1	4.6	O K
480 min Winter	99.083	0.683	0.1	4.5	O K
600 min Winter	99.076	0.676	0.1	4.5	O K
720 min Winter	99.068	0.668	0.1	4.4	O K
960 min Winter	99.046	0.646	0.1	4.3	O K
1440 min Winter	98.992	0.592	0.1	3.9	O K
2160 min Winter	98.912	0.512	0.1	3.4	O K
2880 min Winter	98.840	0.440	0.1	2.9	O K
4320 min Winter	98.720	0.320	0.1	2.1	O K
5760 min Winter	98.628	0.228	0.1	1.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
8640 min Summer	1.230	0.0	4752
10080 min Summer	1.089	0.0	5440
15 min Winter	123.913	0.0	19
30 min Winter	83.311	0.0	33
60 min Winter	53.483	0.0	62
120 min Winter	33.167	0.0	120
180 min Winter	24.715	0.0	178
240 min Winter	19.918	0.0	234
360 min Winter	14.640	0.0	344
480 min Winter	11.765	0.0	446
600 min Winter	9.922	0.0	480
720 min Winter	8.627	0.0	556
960 min Winter	6.913	0.0	712
1440 min Winter	5.050	0.0	1012
2160 min Winter	3.681	0.0	1452
2880 min Winter	2.937	0.0	1872
4320 min Winter	2.133	0.0	2680
5760 min Winter	1.698	0.0	3408

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York House Edison Park Dorcan Way Swindon SN3 3RB	Parc E&F, Old Sarum Soakaway Design 100m2 drainage area	
Date 26/02/2021 13:21	Designed by NP	
File 5598 - Parcel A&F, Cellu...	Checked by RB	
Elstree Computing Ltd		Source Control 2018.1.1

Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
7200 min Winter	98.555	0.155	0.1	1.0	O K
8640 min Winter	98.501	0.101	0.1	0.7	O K
10080 min Winter	98.463	0.063	0.0	0.4	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
7200 min Winter	1.421	0.0	4176
8640 min Winter	1.230	0.0	4840
10080 min Winter	1.089	0.0	5352

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York House Edison Park Dorcan Way Swindon SN3 3RB	Parc E&F, Old Sarum Soakaway Design 100m2 drainage area	
Date 26/02/2021 13:21	Designed by NP	
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Total Area (ha) 0.008

Time (mins) Area
From: To: (ha)

0 4 0.008

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York House Edison Park Dorcan Way Swindon SN3 3RB	Parc E&F, Old Sarum Soakaway Design 100m2 drainage area	
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Model Details

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Cellular Storage Structure

Invert Level (m) 98.400 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.04572 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.04572

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	7.0	7.0	0.800	7.0	15.5