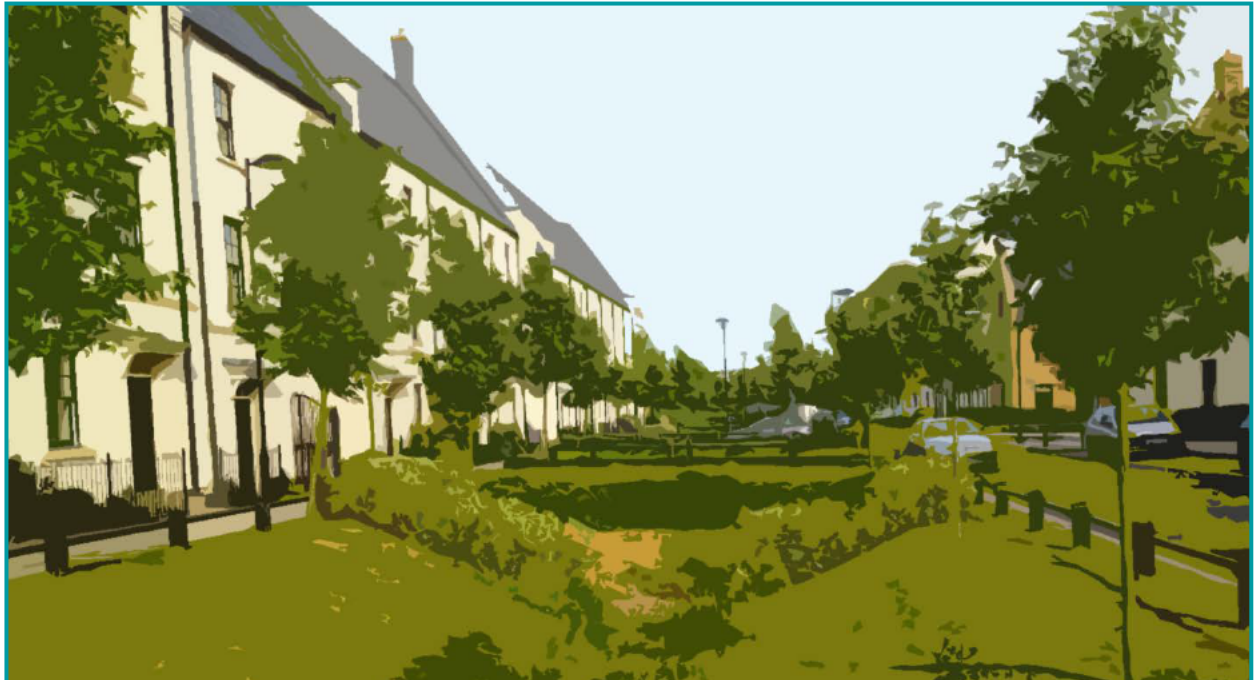




SuDSmart Pro

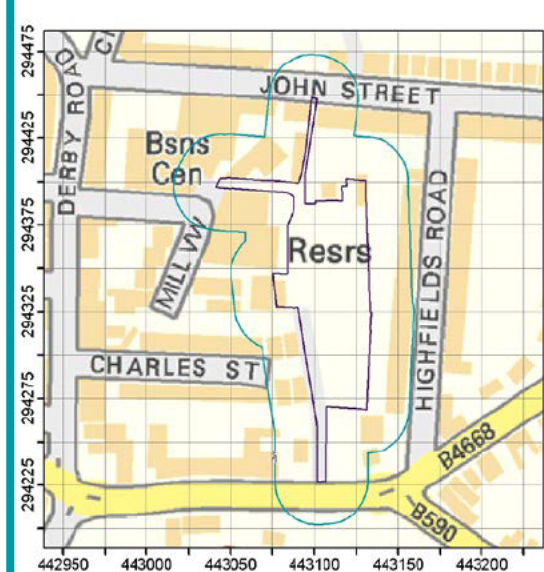


Report reference:	Report status:	Date issued:	Report prepared for:
66267.06.01R1D1	DRAFT	2018-12-13	CS Construction Limited
66267.06.01R2	FINAL	2018-12-14	CS Construction Limited
66267.06.01R3	FINAL	2018-12-18	CS Construction Limited

Site address: Hinckley DSR, Leicester, LE10 1PT

Overview: SuDS features comprised of permeable surfacing underlain with a type 3 porous substrate (30% porosity) will be designed to attenuate runoff of 69.7 m³ up to the 1 in 30 year event. Rainfall runoff during the 1 in 100 year event will be stored in open areas and will not flood internal building areas or utility plant.

Runoff cannot be infiltrated to ground due to impermeable infill. Therefore, it is proposed that surface water runoff is attenuated and discharged to the public combined water sewer within the Site boundary at a restricted rate of 5 l/s. The SuDS strategy would ensure runoff rates and volumes are managed for the lifetime of the development in all events up to and including the 1 in 100 year storm event, including a 40% allowance for climate change.



1. Executive summary

This report assesses the feasibility of a range of Sustainable urban Drainage Scheme (SuDS) options in support of the Site development process. A SuDS strategy is proposed to ensure surface water runoff can be managed effectively over the lifetime of the development.

SuDS suitability

Risk	Issue	Result	
SuDS suitability	What is the infiltration potential at the Site?	High	Low
		Reduced to Low on the basis that the infill material used is relatively impermeable.	
	What is the potential to discharge to surface water features?	Low	
	What is the potential to discharge to sewers?	High	
Flooding	What is the overall flood risk at the Site?	Negligible	
Pollution	Is the groundwater a protected resource?	No	
	Is the surface water feature a protected resource?	No	

SuDS runoff and volume summary

Potential increase in runoff due to the development* ¹ Minimum attenuation assuming some off-site discharge.	Total runoff including climate change (+40%)* ¹ Maximum attenuation assuming no off-site discharge	Change in impermeable area on a previously developed Site As a % of total area
↑ +323.8 m ³	+138.7 m ³	- 34.2%

*¹ for the 6 hour, 1 in 100 year event excluding mitigation

SuDS strategy summary

The Site was until recently occupied by a grass covered, disused service reservoir, which was raised approximately 2 m above surrounding ground levels (Optimal Surveys, June 2018) (Appendix A). However, the reservoir has since been demolished and infilled with an impermeable clay type material. Therefore, the geological conditions underlying the proposed development are relatively impermeable and focused infiltration is not considered to be feasible in this instance.

Development proposals are comprised of 14 residential bungalow dwellings including associated car parking and rear gardens. The proposed Sustainable urban Drainage Scheme (SUDS) strategy is comprised of permeable surfacing underlain by a type 3 porous substrate (30% porosity) to attenuate a minimum of 69.7 m³ from impermeable areas during the 1 in 30 year storm event. It is understood the garden areas of the proposed development will be finished with topsoil to promote growth of grass and shrubbery.

As direct runoff from impermeable areas cannot be infiltrated to ground due to impermeable fill through traditional type soakaway features, it is proposed that surface water runoff during the 1 in 30 year storm event is attenuated within the substrate of the permeable paving and discharged to the public combined water sewer within the Site boundary at a restricted rate of 5 l/s.

Surface water runoff in events exceeding the 1 in 30 year event up to the 1 in 100 year event could be stored within the car park and the highway, within raised kerbs and also discharged into the same combined sewer at 5 l/s. The runoff volume during a 1 in 100 year including a 40% allowance for climate change will be managed in overland flow routes. A 10% increase in impermeable area has been included to provide an allowance for urban creep, in line with Leicestershire County Council's SuDS guidance.

This would ensure runoff rates and volumes are managed for the lifetime of the development in all events up to and including the 1 in 100 year storm event, including a 40% allowance for climate change; in accordance with the Non-statutory technical standards for sustainable drainage systems (DEFRA, March 2015). The proposed strategy would specifically adhere to the technical standards S3 and S5 where the rates and volumes are restricted ensure the development drains in a similar way to the greenfield scenario.

Technical standards S7, S8 and S9 would also be satisfied as the proposed runoff will attenuate the 1 in 30 year runoff, the 1 in 100 year runoff would be stored above ground in open space and the 1 in 100 year including a 40% allowance for climate change will be managed in overland flow routes.

Surface water runoff from existing access road will drain as per the existing arrangement via rainwater gully's located along the highway, which drain to the sewer.

SuDS & drainage network maintenance

The management and maintenance of the SuDS features, in line with the details and schedules outlined in Section 16 (Table 11) of this report, will be undertaken by contractors appointed by the owners and occupiers of the new residential buildings, where payments of the works will form part of the property deeds and / or rental agreements.

Next steps

- The utility provider should be consulted to confirm whether there is sufficient capacity within the public sewer to discharge surface water runoff and the invert level of the receiving sewer;
- Where any existing private drainage network on the Site is re-used, a CCTV Survey is recommended to confirm the type, condition and capacity of the network.

2. Proposed SuDS strategy layout

Table 1: Proposed SuDS type, features, discharge location and rate restriction

SuDS type	Source control (interception) and attenuation SuDS.
SuDS features	Permeable paving including type 3 (30% porosity) substrate
Discharge location	Discharge to combined sewer at a restricted rate of 5 l/s

Table 2: Proposed Storm event, SuDS sizing (dimensions) and attenuation volumes

1 in 30 year	Permeable paving	Permeable paving over an area of 520 m ² within car parking and access underlain by a Type 3 porous substrate (30% porosity) to a depth of 0.5m.
	Total Attenuation Provided	70.2 m ³
	Total Attenuation Required	69.7 m ³
	Freeboard Storage Provided	0.5 m ³
1 in 100 year	Runoff stored above ground within car park areas	Car parking and access over an area of 645 m ² with gradients sloping away from internal building areas to provide a shallow depth of approximately 0.04 m. Finished floor levels of buildings should aim to be set higher than surrounding ground levels where possible and kerbs should be used to contain the shallow flooding within car park areas to ensure the utility plant and buildings are not affected.
	Total Attenuation Provided	25.8 m ³
	Total additional attenuation required above 1 in 30 year	24 m ³
	Freeboard Storage Provided	1.8 m ³

The 1 in 100 year including a 40% allowance for climate change runoff will be managed in overland flow routes and drained away from the Site along the access road.

2. Proposed SuDS strategy layout

Key

-  Permeable paving underlain with a type 3 porous substrate
-  Access track (Easement)
-  Underground pipe network
-  Exceedance /overland flows
-  Hydro-brake and non-return flap valve
-  Public combined sewer
-  ACO Drain
-  Site boundary
-  1 in 100 year shallow surface water storage

Site drainage strategy:

- Permeable surfacing underlain Type 3 porous substrate over an area of 520 m² in the car parking spaces to a depth of 0.45 m (30% porosity) = 70.2 m³ storage (1 in 30 year event).



The Site has a low potential for infiltration due to the impermeable clay geology which has been used to infill the reservoir.

There are no mapped surface water features within the vicinity of the Site which could be used to discharge surface water runoff, therefore discharge of surface water runoff to the public combined sewer is the optimum solution.

Where the highway is proposed to be adopted by the Local Council (Highways team), this will have to be constructed to an adoptable standard and drained separately to residential areas of the Site.

Permeable surface areas should include raised kerbs at the boundary lines to increase storage capacity to deal with exceedance events. Source control SuDS, such as permeable paving areas, would improve the water quality and act as a form of treatment. Paving would act to catch and store the first 5 mm of rainfall.

The discharge location of the surface water runoff will be via a single hydro-brake to the public combined sewer located within the Site boundary.

Overland flows exceeding the 1 in 100 year storm event including climate change should be encouraged along the flow paths shown, where they can be intercepted by aco drains and discharged to the sewer via a hydro-brake.

A vortex control (hydro-brake or similar) will reduce the rate of discharge from the Site to 5 l/s. A 10% allowance for urban creep has been included within the runoff calculations.

Please note: Schematic is not to scale

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Powered by: GeoSmart Information and Stantec

3. Site location

Eastings and Northings:

443115, 294334

Site area:

0.63 hectares

Current use:

Brownfield

Proposed use:

Residential

Report author:

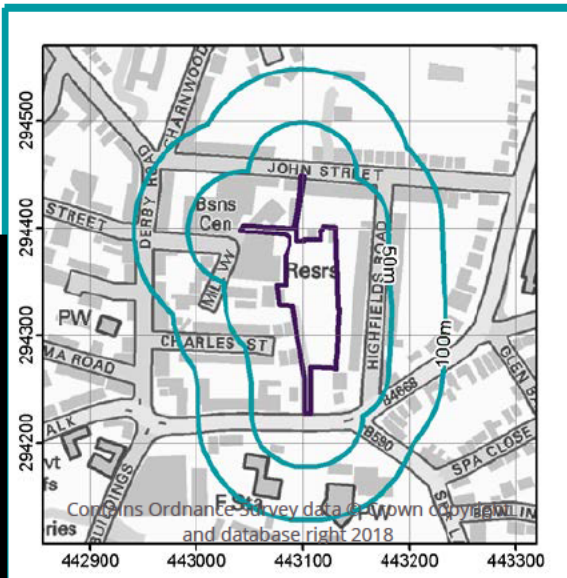
Jennifer Allen

Report checker

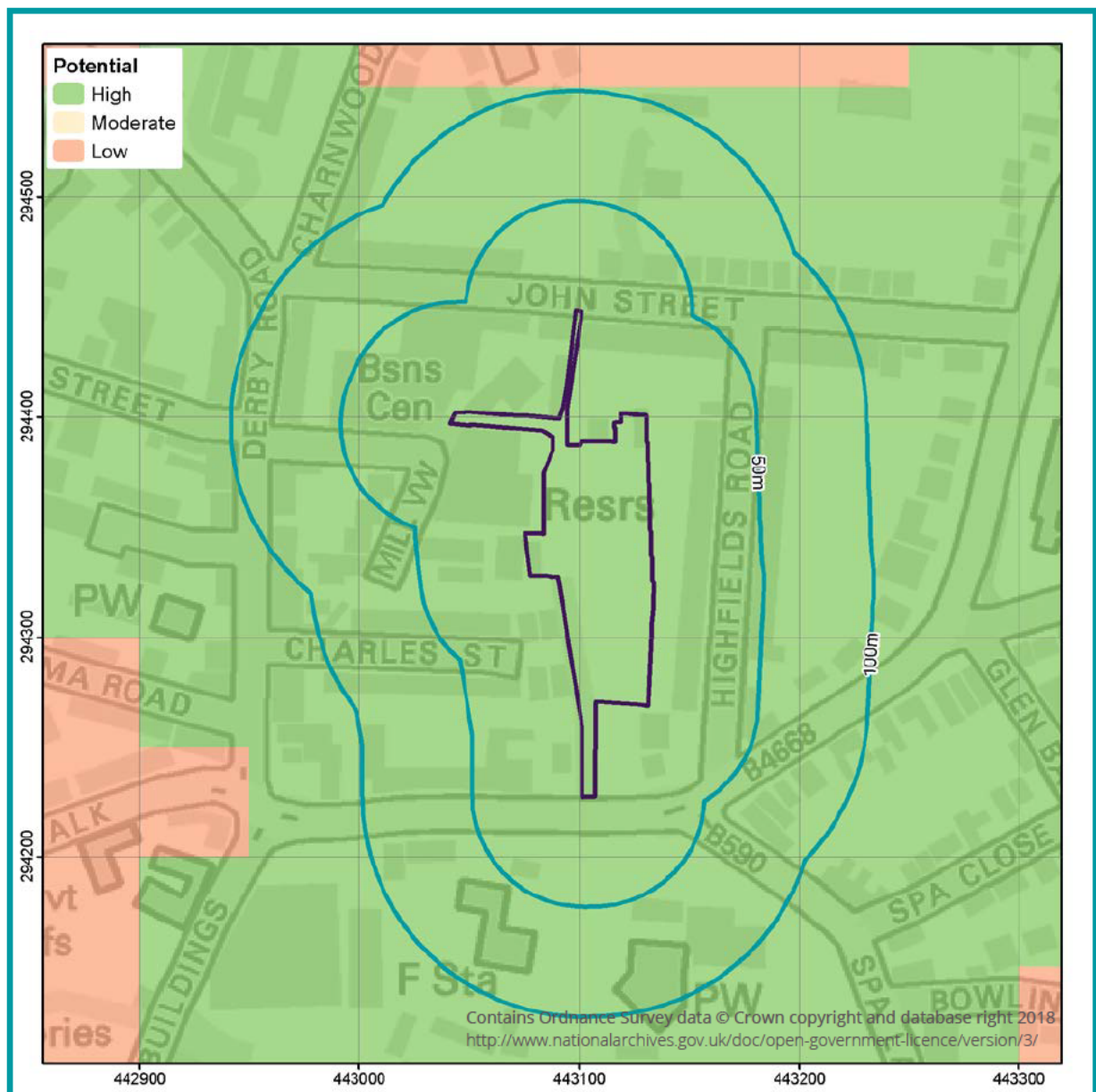
Alan White

Report reviewer:

Mike Piotrowski



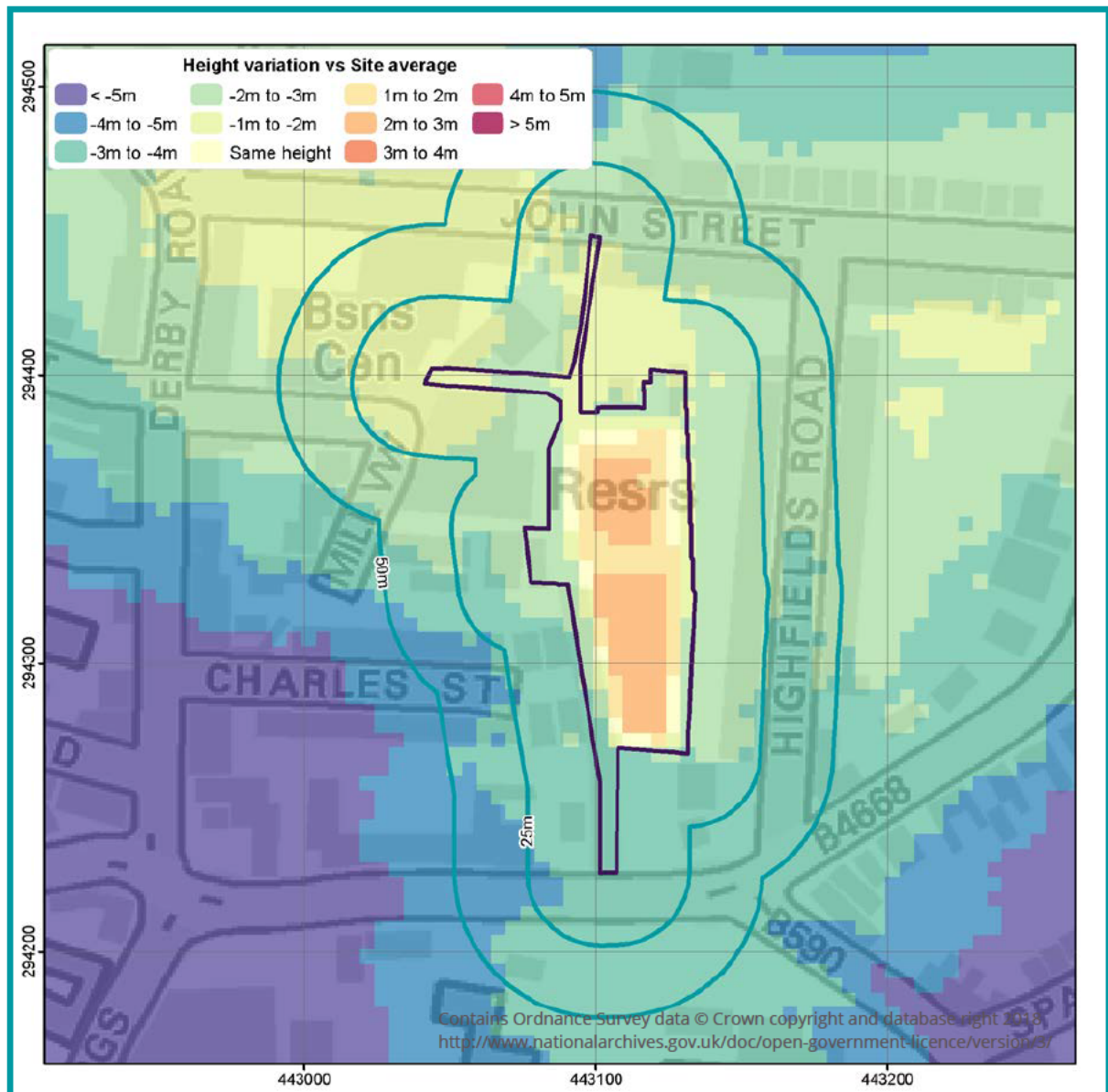
4. SuDS infiltration suitability (SD50) map



GeoSmart's SuDS Infiltration Suitability (SD50) Map screens the potential for infiltration drainage at the Site and indicates where further assessment is recommended. The map combines information on the thickness and permeability of the underlying material and the depth to the high groundwater table. According to the SD50 map which considers national bedrock and superficial geological mapping, there is a high potential for infiltration at the Site as the underlying superficial and bedrock geology are comprised of Dunsmore Gravel (Sand and gravel) and Mercia Mudstone Group (Mudstone).

However, the reservoir was recently demolished and infilled with clay, which is not conducive to infiltration. Therefore, the potential for infiltration has been reduced to Low.

5. Site topography

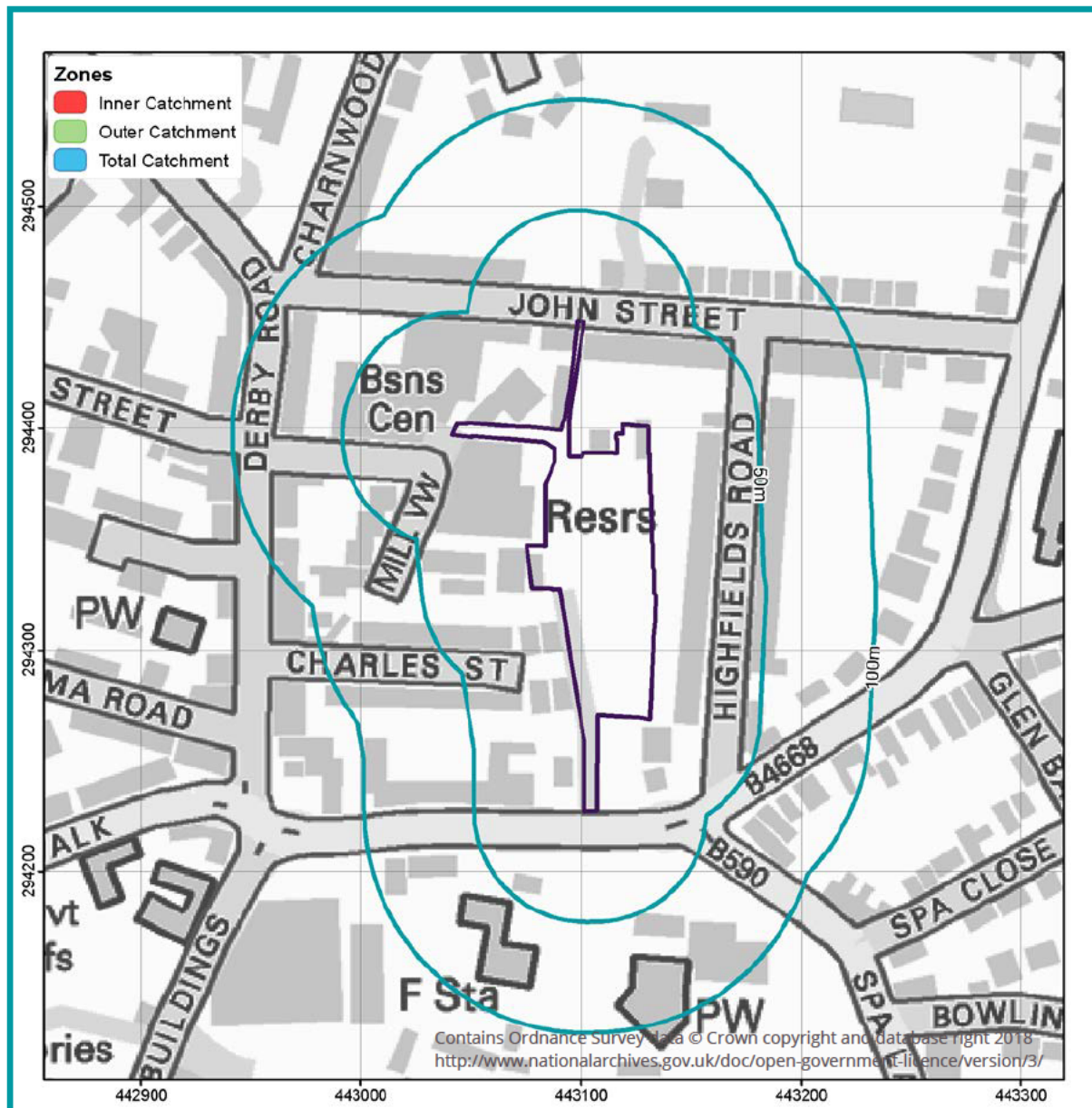


Stantec have undertaken an assessment of the topography at the Site and within its vicinity, using LiDAR elevation data from the Environment Agency (EA). The mapping shows a comparison between average ground levels on the Site with ground levels in the surrounding area.

Topographic survey (OPTIMAL Surveys, 2018) confirms the general level of the Site is raised in the centre and falls away on all sides towards the Site boundary. Ground levels are shown to vary between 140.428 mAOD in the centre of the Site (where the reservoir was located) to 135.35 at the extreme south end adjacent to the road.

However, it has been confirmed that the reservoir, where the development is proposed, was recently demolished and infilled with clay and is now at a similar level to surrounding ground levels. Further topographic data could be collected to provide further confirmation of ground levels.

6. Source protection zone map

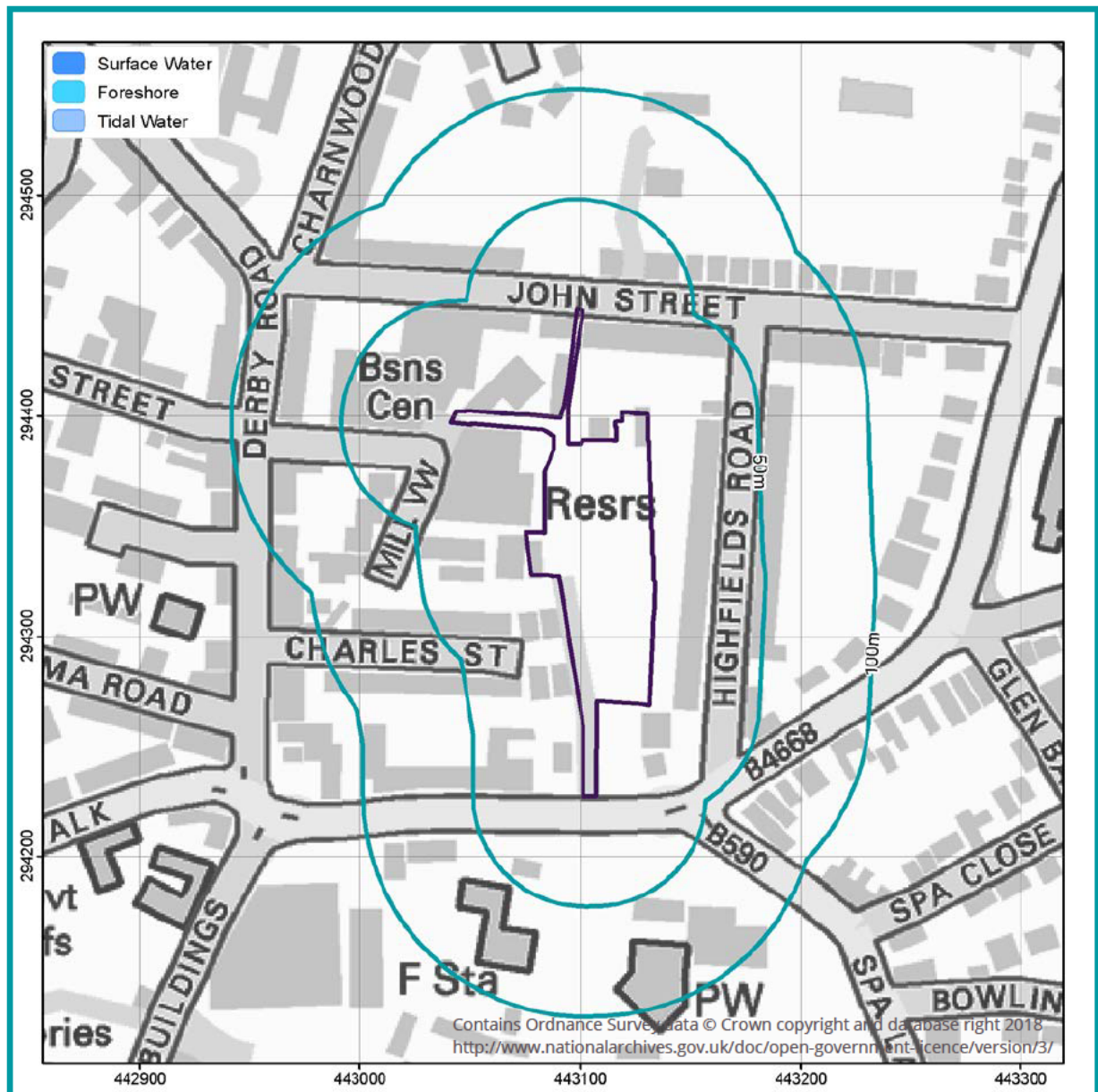


Stantec have undertaken an assessment of the EA groundwater Source Protection Zones (SPZ) within the vicinity of the Site.

The Site is not within a SPZ, therefore, if applicable, infiltration to the ground is likely to be acceptable providing suitable mitigation measures are in place if required to prevent an impact on water quality from the proposed or historical land use.

If hazards are identified, further consideration of the potential for any drainage system to cause pollution of groundwater is recommended. It is also recommended that the Local Authority and the EA are contacted to confirm the susceptibility of controlled water within the wider area.

7. Surface water features map

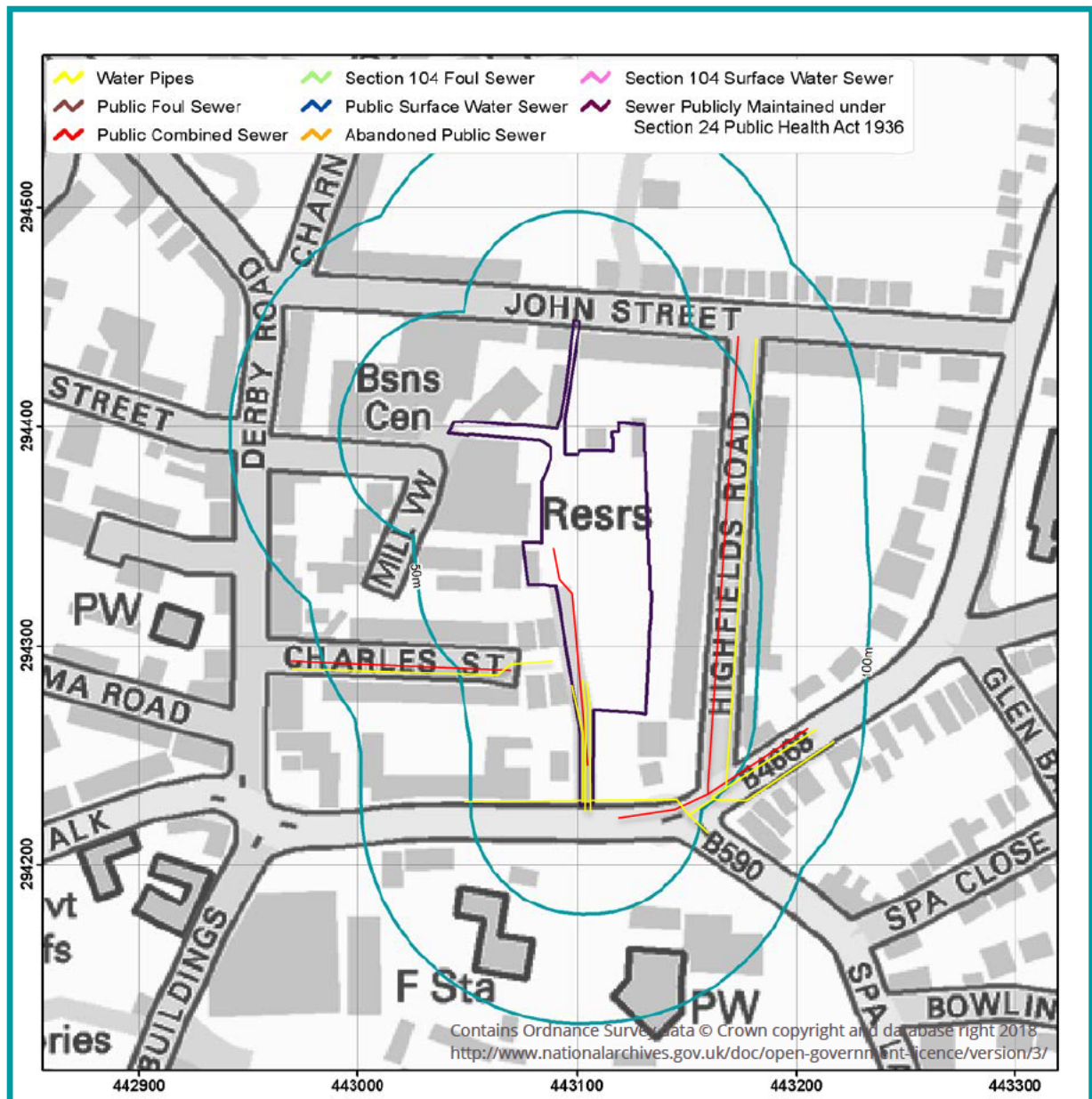


Stantec have undertaken an assessment of the location of surface water features within the vicinity of the Site. The Site is more than 100 m from a surface water body, therefore discharge to surface water is unlikely to be appropriate.

The Site is not within 250m of a SSSI.

Further analysis could be undertaken by visiting the Site or by contacting the Local Council and the EA to confirm the presence, location and condition of unmapped watercourses within the vicinity of the Site.

8. Sewer features map

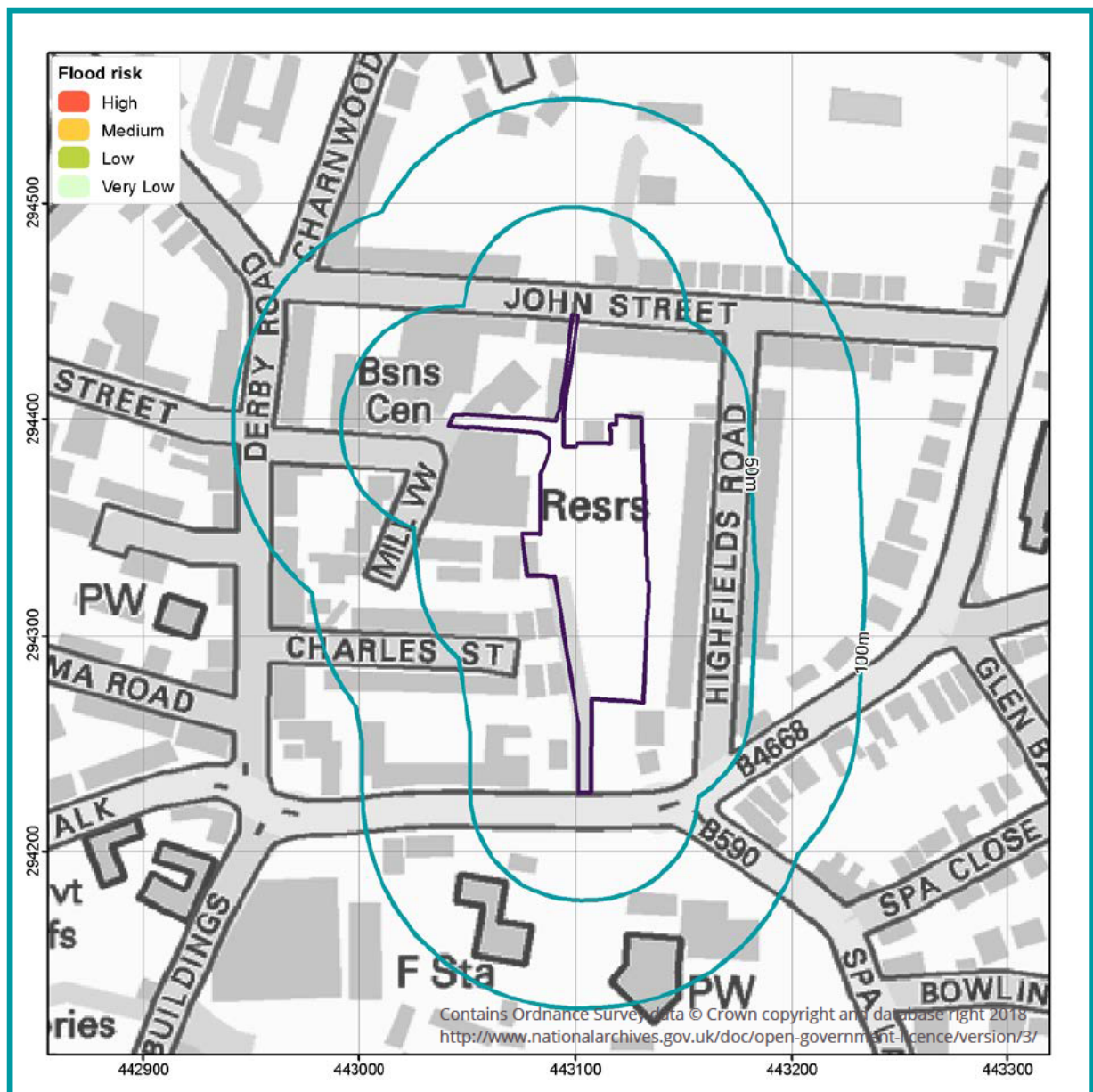


Stantec have undertaken an assessment of the location of sewer features within the vicinity of the Site. There is a public combined sewer located on Site, therefore discharge to sewer would be appropriate for the proposed development.

Further analysis of the connections and condition of the public surface water and foul drainage systems could be confirmed by undertaking a CCTV survey, or by contacting Severn Trent Water.

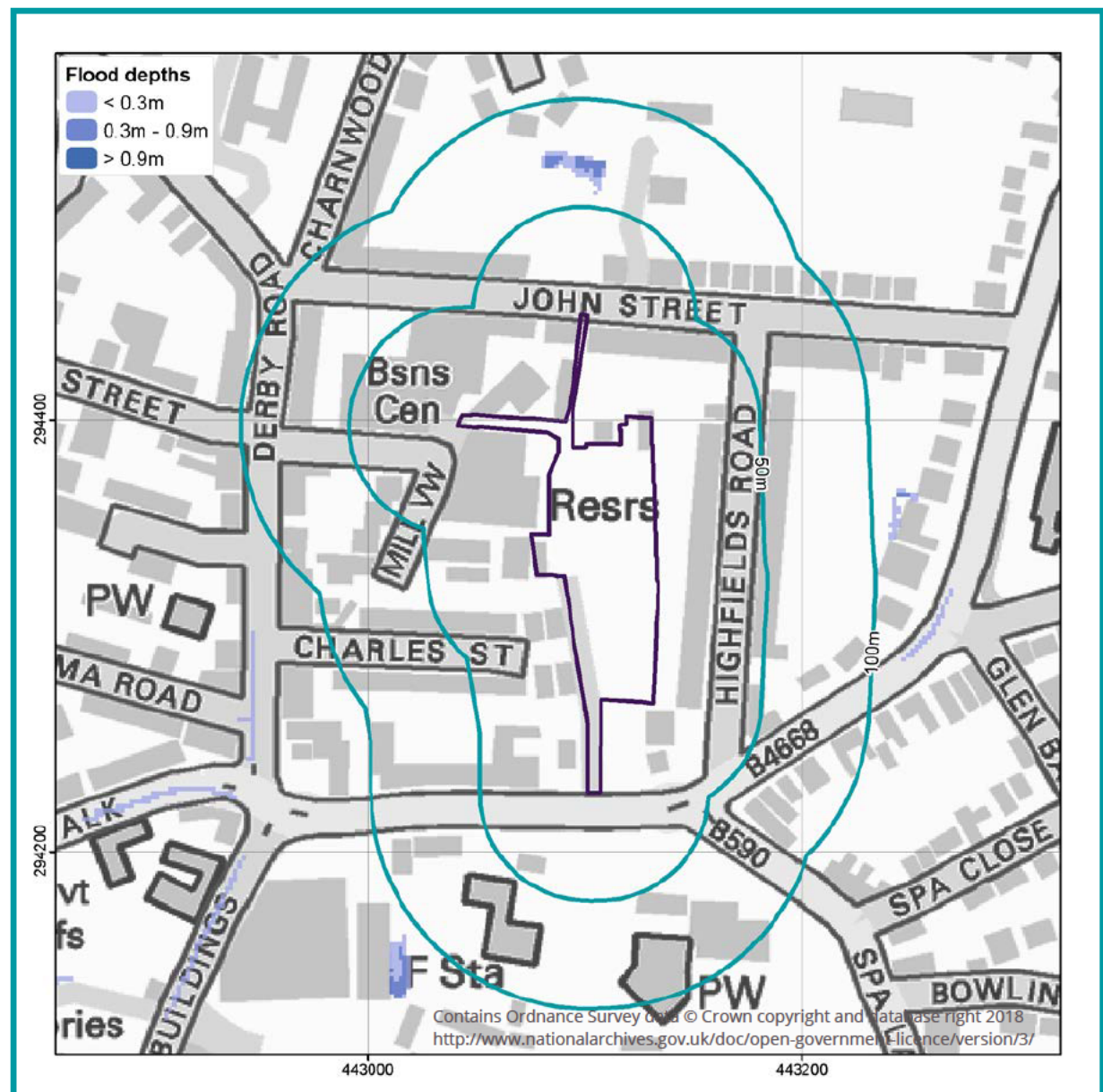
Consultation with the drainage provider would also be required to determine that sufficient capacity is available to accept the proposed discharge, and to gain permission to connect if required.

9. Risk of flooding from rivers & sea map



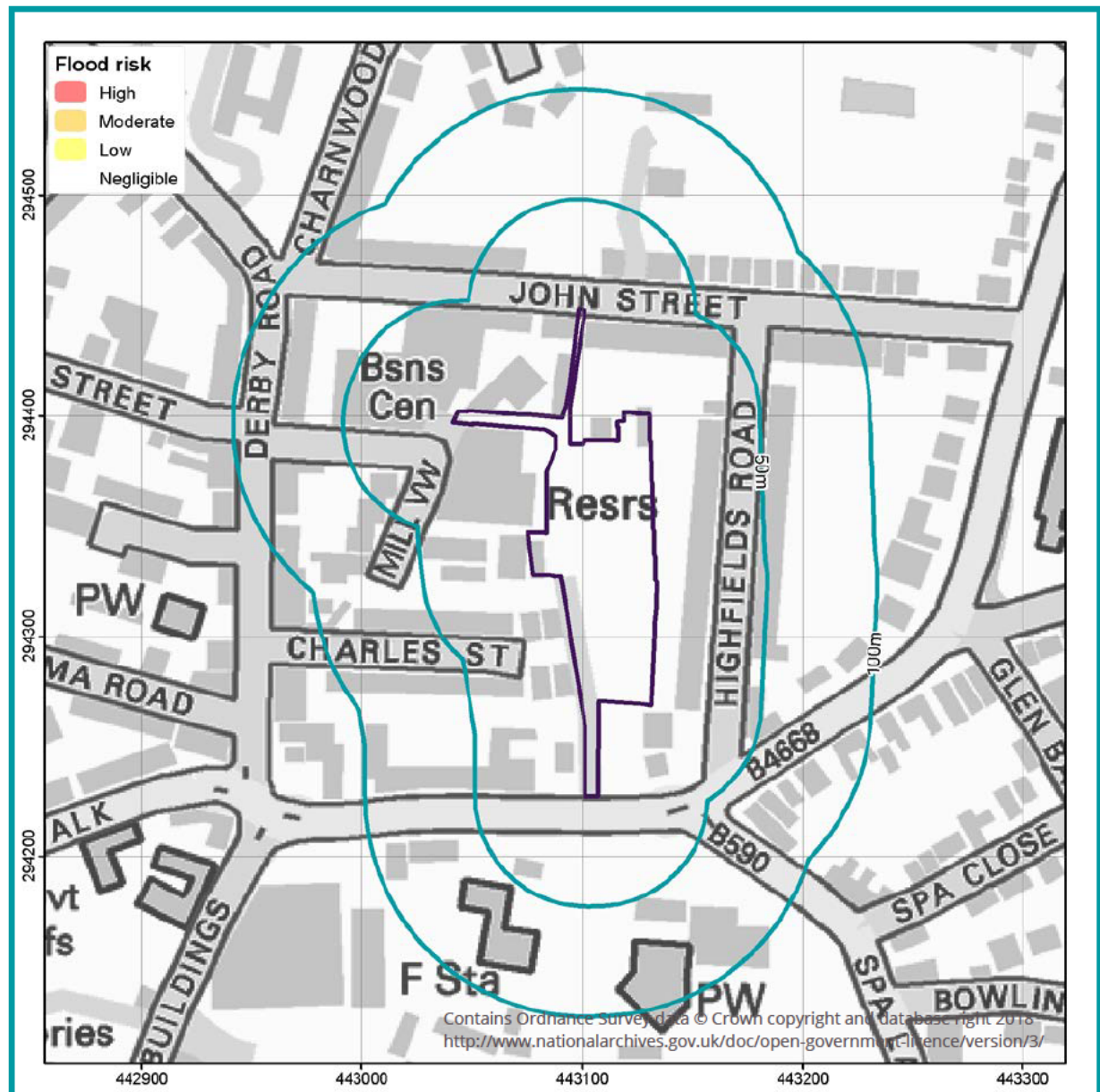
Stantec have undertaken an assessment of the risk of flooding from the rivers and the sea within the vicinity of the Site. The Site has a negligible risk of fluvial or coastal flooding and therefore there would be no impact to the placement of SuDS features on the Site.

10. Risk of surface water flooding map



Stantec have undertaken an assessment of the risk of flooding from surface water (pluvial) sources within the vicinity of the Site. The Site and surrounding area have a negligible risk of pluvial flooding and SuDS features would not be constrained by this source of flood risk.

11. Groundwater flood risk (GW5) map



Stantec have undertaken an assessment of the risk of flooding from the groundwater sources within the vicinity of the Site. According to GeoSmart's Groundwater Flood Risk (GW5) mapping, the Site has a negligible risk of groundwater flooding. Therefore, SuDS design is unlikely to be affected by flooding through the underlying geology.

It is necessary that any SuDS are designed to operate in times when groundwater levels are high, although due to the impermeable geology underlying the Site, Site specific investigation is not considered necessary to establish the depth to groundwater.

12. Site context



Site information

The purpose of this report is to assess the potential for disposing of surface water through a sustainable drainage system (SuDS) for the proposed development at Hinckley DSR, Leicester (the Site). The Site is located in the centre of Hinckley in a setting of commercial and residential land use.

According to the topographic survey undertaken for the Site (Optimal, June 2018), the land slopes in all directions from the centre of the Site from 140.39 to 135.26 mAOD. However, the reservoir has been demolished and infilled since the topographic survey was undertaken in June 2018, and ground elevations are now approximately 137.4 to 135.26 mAOD, with the Site falling generally to the south. Site plans and drawings are provided in Appendix A.



Development

The Site is currently used within a brownfield capacity and is a former disused Severn Trent covered reservoir. Development proposals comprise the construction of 14 residential bungalows.



Geology, permeability and thickness

British Geological Survey (BGS) national superficial and bedrock geology mapping confirms a number of different formations underlie the Site and each formation may have a range of permeability.

Table 3: Site Geology

Geology present on Site		Potentially permeable?
Superficial geology	Dunsmore Gravel (Sand and gravel)	✓
Bedrock geology	Mercia Mudstone Group (Mudstone)	✓*

*The top layers of Mercia Mudstone could potentially be permeable, but the permeability reduces with the depth.

A nearby borehole record (ref: SP49SW106 — B & Q WAREHOUSES NO.3) was obtained from the BGS website, this record is located approximately 140 m southwest of the Site.

The borehole record confirms the underlying geology in the surrounding area comprises of Made Ground to a depth of approximately 0.2 m below ground level (bgl) underlain by Dark brown clayey fine medium gravelly fine medium sand to a depth of 2.20 m bgl, medium dense brown clayey, locally very clayey, fine medium coarse sand and fine medium gravel to a depth of 4.40 m bgl, brown yellow brown

chalk and flint gravelly clay, boulder clay to a depth of 4.55 m bgl, medium dense brown silty fine medium coarse sand and fine medium gravel to a depth of 9.80 m bgl and loose yellow brown silty fine gravelly fine medium coarse sand to a depth of 11.4 m bgl. However, the ground conditions at the Site and within the area proposed for development are likely to differ significantly due to the presence of an infill layer comprised predominantly of clay.



Depth to groundwater

According to the Groundwater Flood Risk (GW5) map included within Section 11 of this report, the Site has a negligible groundwater flood risk. The rest water level for the B & Q borehole is 3.9 m bgl. The ground level of the borehole is 132.03 mAOD which is approximately 2-3m lower than ground levels on the Site.

Guidance

'It is essential that the consideration of sustainable drainage takes place at the land acquisition due diligence stage'

LASOO (2015), Practice Guidance, Local Authority SuDS Officer Organisation.



Ground conditions

A Site-specific review of underlying ground conditions is recommended to ensure hazards such as soluble rocks, landslides, compressible ground, collapsible ground, shrink-swell clays, running sand and shallow mining are identified.

The proposed drainage strategy is unlikely to interact directly with the underlying clay geology as focused infiltration features are not proposed. The only infiltration which will occur is the rainfall falling directly onto the surface of garden areas.



Water quality

The Site does not lie within a SPZ and focused infiltration is not proposed. In this case an assessment of the quality of infiltrating runoff and the possibilities for pre-treatment is unlikely to be required. Infiltration systems should not be used where there is a risk of contaminating groundwater by infiltrating polluted runoff or where receiving groundwater is particularly sensitive. Although as focused infiltration features are not proposed, there is limited chance of surface water runoff mobilizing pollutants and transferring them to the underlying geology.

The influence of surface runoff on water quality depends on whether there is a source of contamination on Site and the sensitivity of the receiving environment, either groundwater or surface water. The intervening pathway from source to receptor including mitigation and natural attenuation will determine the final impact.

The impact of contaminants on the groundwater are reduced by travel and natural attenuation through the unsaturated soil zone. A greater depth of unsaturated zone and the presence of significant clay and organic material can provide greater protection for the underlying groundwater.

13. National & local policy context

National Guidance

CIRIA SuDS Manual (C753) (2015)

A development should utilise sustainable urban drainage systems (SUDS) unless there are practical reasons for not doing so, and should aim to achieve greenfield run-off rates and ensure that surface water run-off is managed as close to its source as possible in line with the following drainage hierarchy:

1. Use infiltration techniques, such as porous surfaces in non-clay areas,
2. attenuate rainwater in ponds or open water features for gradual release,
3. attenuate rainwater by storing in tanks or sealed water features for gradual release,
4. discharge rainwater direct to a watercourse,
5. discharge rainwater to a surface water sewer / drain,
6. discharge rainwater to the combined sewer.

DEFRA - Sustainable Drainage Systems: Non-statutory technical standards for sustainable drainage systems (2015)

Peak Flow control

S3 For developments which were previously developed, the peak runoff rate from the development to any drain, sewer or surface water body for the 1 in 1 year rainfall event and the 1 in 100 year rainfall event must be as close as reasonably practicable to the greenfield runoff rate from the development for the same rainfall event but should never exceed the rate of discharge from the development prior to redevelopment for that event.

Volume control

S5 Where reasonably practicable, for developments which have been previously developed, the runoff volume from the development to any highway drain, sewer or surface water body in the 1 in 100 year, 6 hour rainfall event must be constrained to a value as close as is reasonably practicable to the greenfield runoff volume for the same event but should never exceed the runoff volume from the development Site prior to redevelopment for that event. The runoff volume must be discharged at a rate that does not adversely affect flood risk.

S6 Where it is not reasonably practicable to constrain the volume of runoff to any drain, sewer or surface water body in accordance with S5 above, the runoff volume must be discharged at a rate that does not adversely affect flood risk.

Flood risk within the development

S7 The drainage system must be designed so that, unless an area is designated to hold and/or convey water as part of the design, flooding does not occur on any part of the Site for a 1 in 30 year rainfall event.

S8 The drainage system must be designed so that, unless an area is designated to hold and/or convey water as part of the design, flooding does not occur during a 1 in 100 year

rainfall event in any part of: a building (including a basement) ; or in any utility plant susceptible to water (e.g. pumping station or electricity substation) within the development.

S9 The design of the Site must ensure that, so far as is reasonably practicable, flows resulting from rainfall in excess of a 1 in 100 year rainfall event are managed in exceedance routes that minimise the risks to people and property.

Regional Guidance

Leicestershire County Council Interim LLFA Guidance Note (October, 2018)

To minimise the risk of system blockage the council would allow 5 l/s as the minimum discharge rate from a site.

Brownfield sites must achieve greenfield run-off rates unless is adequately demonstrated to not be reasonably practicable or technically viable. In such instances, the applicant should seek to reduce discharges rate as much as reasonably practicable or technically viable. The proposed brownfield discharge rate should never represent an increase over the calculated existing discharge rate.

The calculations for attenuation requirements should allow for storm events up to the 1 in 100 year return period plus the appropriate allowance for climate change. Where applicable, the impacts of 'urban creep' should be included. Unless it can be demonstrated otherwise, a 10% increase in the impermeable area should be included within the storage calculations.

Local Guidance

Hinckley and Bosworth Borough Council Local Plan 2006-2026

Site Allocations and Development Management Policies DPD

Developments featuring roofed and paved surfaces will need to incorporate a sustainable drainage system to mimic natural rain runoff characteristics of an undeveloped site. The obligation would not apply to development comprising only internal alterations to an existing building, nor usually to domestic dwelling extensions in scale with the original building, and utilising existing drainage connections. It would apply to new or altered paved surfaces, such as parking areas, paths, outdoor assembly areas and access driveways.

The obligation to incorporate a sustainable drainage system would also apply to all new-build development, from single dwellings and small industrial/commercial units to housing and industrial estate developments, including those on previously developed sites.

Hinckley and Bosworth Borough Council, Blaby District Council and Oadby and Wigston Borough Council

Joint Strategic Flood Risk Assessment

Sustainable Drainage Systems (SuDS) aim to mimic the natural processes of Greenfield surface water drainage, allowing water to flow along natural flow routes and reducing the runoff rates and volumes during storm events, while providing some water treatment benefits. SuDS also have the advantage of providing effective Blue and Green infrastructure, ecology and public amenity benefits when designed and maintained properly.

The inclusion of SuDS within developments should be seen as an opportunity to enhance ecological and amenity value, and promote Green Infrastructure, incorporating above ground facilities into the development landscape strategy. SuDS must be considered at the outset, during preparation of the initial site conceptual layout to ensure that enough land is given to design spaces that will be an asset to the development rather than an after-thought. Advice on best practice is available from the Environment Agency and the Construction Industry Research and Information Association (CIRIA).

14. Storage, volume and peak flow rate

Site (excluding access track)

Suggested minimum and aspirational storage requirements for an infiltration or attenuation SuDS scheme for the development footprint are set out below, with more detail provided in subsequent sections. Storage volumes may be reduced (but not below the minimum level) if the design incorporates off-site discharge.

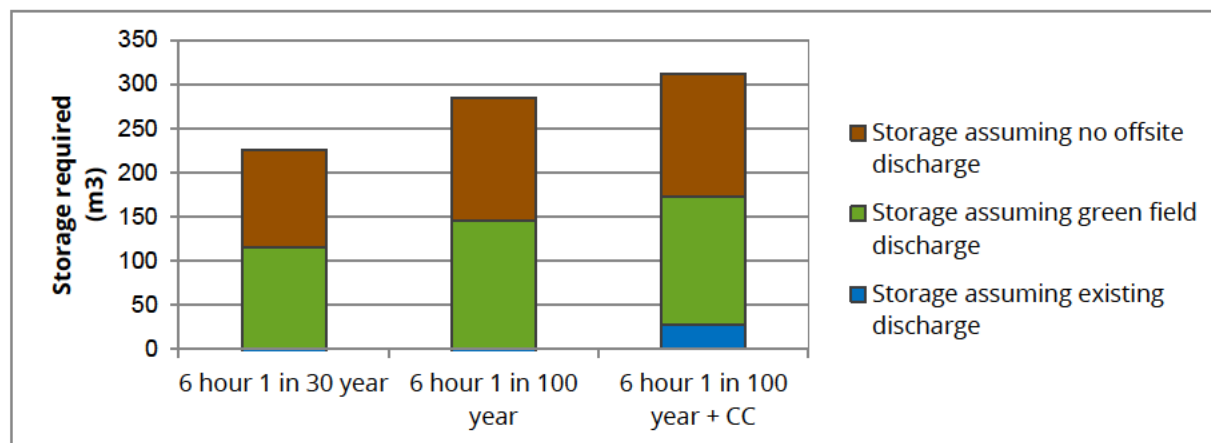


Table 4: Storage requirements at the proposed development Site.

Attenuation scenario		Attenuation required (m³)	Explanation	
Discharge runoff to public combined sewer system	1 in 30 year	69.7	Attenuation required to ensure surface water runoff is attenuated in all storm events up to and including the 1 in 30 year (2 hour, Critical Storm Duration) event. A further 24 m³ should be contained within open spaces within the Site to ensure no flooding of internal areas during the 1 in 100 year storm event.	A further 56.4 m³ should be managed within overland flow routes to ensure there is no increase in flood risk in all events up to the 1 in 100 year including 40% allowance for climate change.
	1 in 100 year	93.7	Attenuation required to ensure surface water runoff is attenuated in all storm events up to and including the 1 in 100 year (2 hour, Critical Storm Duration) event.	
	1 in 100 year including 40% CC	150.1	Attenuation required to ensure surface water runoff is attenuated in all storm events up to and including the 1 in 100 year (3 hour, Critical Storm Duration) event including a 40% allowance for climate change.	

Surface water runoff

An increase in impermeable area on Site will result in greater rainfall runoff. Reduction in runoff will help mitigate flood risk both on and off Site. Further information on the surface water runoff calculations is provided in Section 19 'Background Information'.

Guidance

The Non-Statutory Technical Guidance for SuDS (Defra, March 2015) states:

"Where reasonably practicable, for Greenfield development, the runoff volume from the development to any highway drain, sewer or surface water body in the 1 in 100 year, 6 hour rainfall event should never exceed the Greenfield runoff volume for the same event. Where reasonably practicable, for developments which have been previously developed, the runoff volume from the development to any highway drain, sewer or surface water body in the 1 in 100 year, 6 hour rainfall event must be constrained to a value as close as is reasonably practicable to the Greenfield runoff volume for the same event but should never exceed the runoff volume from the development Site prior to redevelopment for that event."

Table 5: Change in impermeable area associated with the development

Total Site area	6,300 m ²
Impermeable area (and as a percentage of the total area of the proposed development footprint of 4,538 m ²)	
Pre-development	Post-development
4,238 m ² (93%)	2,441 m ² (54%)
Impermeable Land use: Concrete reservoir and driveway/tarmac area Permeable Land use: Landscaped areas	New impermeable land use: 14 bungalows with associated driveways and car parking spaces* New permeable land use: Landscaped areas

*A 10% increase has been included within the impermeable areas to provide an allowance for urban creep.

The access road has not been included within the calculations of surface water runoff as it is understood this will drain as per the existing situation.

Guidance

"The drainage system must be designed so that, unless an area is designated to hold and/or convey water as part of the design, flooding does not occur on any part of the Site for a 1 in 30 year rainfall event' and 'flooding does not occur during a 1 in 100 year rainfall event in any part of: a building (including a basement); or in any utility plant susceptible to water (e.g. pumping station or electricity substation) within the development"

(Defra, March 2015, non-statutory guidance).

Peak discharge rates

The table below presents peak discharge rates for a range of storm events used to assess the impact of the proposed development and select the maximum permitted discharge rate. Further information on the calculation and control of peak discharge rates is provided in Section 19 'Background Information'.

Table 6: Peak discharge rates associated with the development

Rainfall event	Greenfield runoff rates (l/s)	Existing runoff rates ¹ (l/s)	Potential runoff rates without attenuation (l/s)	Potential minus existing (l/s)
QBAR	2.00	N/A	N/A	N/A
6 hour 1 in 1 year	1.70	4.92	3.85	-1.07
6 hour 1 in 10 year	2.98	7.52	5.93	-1.58
6 hour 1 in 30 year	3.84	10.46	8.18	-2.27
6 hour 1 in 100 year	5.14	13.19	10.32	-2.87
6 hour 1 in 100 year + 20% CC	N/A	N/A	12.38	-0.80
6 hour 1 in 100 year + 40% CC	N/A	N/A	14.44	1.26

¹ Assumes 100% runoff from impermeable surfaces. Assumes Greenfield runoff from permeable surfaces calculated using the loH124 method.

Relevant local and regional plan policy has been consulted to determine restrictions on runoff from previously developed sites. In some cases, green field rates may be requested, although practice it is difficult to restrict discharge rates at any one control point to less than 5 l/s, in accordance with Leicestershire County Councils SuDS guidance (October, 2018).

Total discharge volumes

The table overleaf presents discharge volumes for a range of storm events used to assess the impact of the proposed development and calculate the required storage volumes. Further information on the calculation of total discharge volumes is provided in Section 18 'Methodology and Limitations'.

Table 7: Total discharge volumes associated with the development

Rainfall event	Greenfield runoff volume (m ³)	Existing runoff volume ² (m ³)	Potential runoff volume without attenuation (m ³)	Potential minus existing (m ³)
QBAR	54.71	N/A	N/A	N/A
6 hour 1 in 1 year	51.81	106.37	83.23	-23.13
6 hour 1 in 10 year	81.80	162.34	128.19	-34.15
6 hour 1 in 30 year	110.03	225.91	176.78	-49.13
6 hour 1 in 100 year	138.72	284.81	222.87	-61.94
6 hour 1 in 100 year + 20% CC	N/A	N/A	267.44	-17.37
6 hour 1 in 100 year + 40% CC	N/A	N/A	312.01	27.20

² Assumes 100% runoff from impermeable surfaces. Assumes Greenfield runoff from permeable surfaces calculated using the loH124 method.

Critical storm duration and volume requirements

Storage volumes for a range of 1 in 100 year plus climate change (40%) event durations have been estimated to assess the impact of the proposed development. The required storage volumes for attenuation features have been calculated for the critical storm duration, limited to a maximum discharge rate of 5 l/s.

Table 8: Critical Storm Duration and Attenuation volume requirements

Return Period	Runoff rate restriction (l/s)	Critical Storm Duration (hr)	Attenuation volume required (m ³)
1 in 30 year	5	2	69.7
1 in 100 year	5	2	93.7
1 in 100 year plus 40% climate change	5	3	150.1

15. Runoff destination

Options for the destination for the runoff generated on-site have been assessed in line with the prioritisation set out in the Building Regulations Part H document (HM Government, 2010) and Defra's Draft National Standards for SuDS (2011). Flow attenuation using infiltration SuDS (discharge to ground) is generally the preferred option. If discharge to ground is not available, runoff discharge to surface water is the other preferred method. Only if these two options are impractical should discharge to the sewer network be considered.

Discharge to ground

As discussed in Section 4 the Site has low potential for infiltration due to the underlying clay geology at the Site, which has been used to infill the reservoir. Therefore, infiltration to ground is not considered to be feasible.

Discharge to surface watercourse

The Site is further than 100 m from a surface water feature, discharge to surface water is therefore unlikely to be appropriate in this instance.

Discharge to sewer

According to the STL regulated drainage and water search (Appendix C), discharge to the public combined sewer system, located within the Site boundary, is likely to be the optimum sustainable drainage option for the proposed development. Discharge to the public combined sewer within the Site is acceptable as none of the above options are reasonably practical.

Discharge will be controlled and onsite attenuation would be required. The topographic gradient on the Site falls towards the southwest towards the public combined sewer within, which would allow the proposed development to drain under gravity to this sewer at a restricted rate of 5 l/s.

16. Water quality

A key requirement of any SuDS system is that it protects the receiving water body from the risk of pollution. This can be effectively managed by an appropriate “train” or sequence of SuDS components that are connected in series. The frequent and short duration rainfall events are those that are most loaded with potential contaminants (silts, fines, heavy metals and various organic and inorganic contaminants). Therefore, the first 5-10 mm of rainfall (first flush) should be adequately treated with SuDS.

The minimum number of treatment stages will depend on the sensitivity of the receiving water body and the potential hazard associated with the proposed development SuDS Manual (CIRIA, 2015). The proposed development is a combination of low (roof water) to medium hazard (runoff from car parking and road). The Site does not lie within a SPZ and therefore additional treatment stages are not required.

Table 9: Level of hazard

Hazard	Source of hazard
Very Low	Residential roof drainage
Low	Residential, amenity uses including low usage car parking spaces and roads, other roof drainage.
Medium	Commercial, industrial uses including car parking spaces and roads (excluding low usage roads, trunk roads and motorways).
High	Areas used for handling and storage of chemicals and fuels, handling of storage and waste (incl. scrap-yards).

The recommended minimum number treatment stages suggested for the different runoff waters identified for the proposed development is highlighted in Table 7.

Table 10: Minimum number of treatment stages for runoff

		Sensitivity of the receiving water body		
		Low	Medium	High
Hazard	Low	1	1	1
	Med	2	2	2
	High	3	3	3

17. Sustainable drainage systems

It is recommended the drainage system has the capacity to accommodate the 1 in 100 year event before flooding occurs. Drainage from areas outside the development footprint will continue to use the existing drainage arrangements. A surface water drainage strategy (summarised in Section 2 of this report) has been compiled to ensure surface water can be managed effectively for the lifetime of the proposed development.

Proposed drainage strategy:

Due to the underlying impermeable clay geology at the Site, which has been used to infill the reservoir, the ground conditions are not considered to be conducive to focused infiltration

As surface water features such as rivers and lakes are not located within the vicinity of the Site, the proposed drainage strategy seeks to attenuate surface water runoff and discharge it to the combined sewer at a restricted rate of 5 l/s.

Table 11: Proposed SuDS type, features, discharge location and rate restriction

SuDS type	Source control (interception) and attenuation SuDS.
SuDS features	Permeable paving including type 3 (30% porosity) substrate
Discharge location	Discharge to combined sewer at a restricted rate of 5 l/s

Table 12: Proposed Storm event, SuDS sizing (dimensions) and attenuation volumes

1 in 30 year	Permeable paving	Permeable paving over an area of 520 m ² underlain by a Type 3 porous substrate (30% porosity) to a depth of 0.45 m.
	Total Attenuation Provided	70.2 m ³
	Total Attenuation Required	69.7 m ³
	Freeboard Storage Provided	0.5 m ³
1 in 100 year	Runoff stored above ground within car park areas	Car parking over an area of 645 m ² with gradients sloping away from internal building areas to provide a shallow depth of 0.04m. Finished floor levels of buildings should aim to be set higher than surrounding ground levels where possible and kerbs should be used to contain the shallow flooding within

		car park areas to ensure the utility plant and buildings are not affected.
	Total Attenuation Provided	25.8 m ³
	Total additional attenuation required above 1 in 30 year	24 m ³
	Freeboard Storage Provided	1.8 m ³
1 in 100 year including a 40% allowance for climate change	Total runoff above the 1 in 100 year runoff volume	56.4 m ³
	Flow routes	Flows should be contained within the car parking areas and overland flows managed within the access road in the west of the Site.

The 1 in 100 year including a 40% allowance for climate change will be managed in overland flow routes and drained away from the Site along the access road.

Where possible, **exceedance flows** should be directed away from buildings and into non-essential areas of the Site such as the car park or the adjacent access road. The SuDS system recommended for the Site should provide enough storage that this method would only be utilised during a worst-case scenario.

Hydrobrake Flow control systems are required to reduce the runoff from the Site at a rate of 5 l/s. These are usually a device used for controlling water flow into a connecting feature, such as a sewer, to a specific attenuation performance.

The design consists of an intake, a volute and an outlet and the configuration is critical to ensure discharge control. For drainage areas which are less than 3 ha, outlet throttle diameters would have to be small (<150 mm diameter) to achieve outflow rates which could result in blockage. For most SuDS features, a flow control device will comprise a fixed orifice or a throttle such as a short pipe.

A **Vortex Control** is usually a self-activating vortex flow device which directs water into a volute to form a vortex. For the Site, rainwater down pipes from the development roof should drain directly into the attenuation feature to reduce inflow from potential flood water.

A **non-return flap valve** is also recommended for the outflow pipes to reduce the risk of backflow from the channel/sewer during a large-scale rainfall event.

Discharge Route:

Discharge of surface water runoff at 5 l/s via a hydro-brake or similar (to ensure runoff is not increased above the greenfield scenario) into the public combined sewer located within the west of the Site.

Exceedance Flow Route:

Exceedance of SuDS features should be directed into attenuation features which include additional freeboard including attenuation basins and swales and into the highway, where raised kerbs allow for additional storage.

During an exceedance event, flows should also be directed into the nearest surface water channel/sewer network. The SuDS system recommended for the Site provides enough storage that this method would only be utilized during a worst case scenario.

Adoptable highways:

Where the access road running down the western boundary of the Site is proposed for re-development and adoption, this should be included within separate runoff calculations. The drainage and storage requirements should be kept separately to the drainage from the residential areas in accordance with HA40 and attenuated within oversized pipework within the Site boundary.

Consideration of flow control measures must be included in the design of piped network and also applies to any French drains or attenuation basins. Pipes draining the adoptable highway should provide the following cover below ground levels to the soffit of the pipe.

- 1.2 m (in the carriageway)
- 0.9 m (in footways, footpaths, service strips or verges).

Additional recommendations

Additional SuDS options that may be considered for the Site are as follows:

- Rain water harvesting can collect runoff from the roofs for use in non-potable situations, using water butts for example.
- Having part/all of the roof as a green roof covered in vegetation intercepts up to 30 mm of rain before any runoff is generated from the structure.

SuDS maintenance

Regular maintenance is essential to ensure effective operation of the proposed permeable paving over the intended lifespan of the proposed development. The SuDS Manual (C753) (CIRIA, 2015) provides a maintenance schedule for SuDS with details of the necessary required actions as shown in the Table below.

Table 13: SuDS operation and recommended maintenance requirements

Asset type	Maintenance schedule (and frequency)
Permeable pavements	Regular maintenance: • Brushing and vacuuming (three times per year). • Trimming any roots and surrounding grass and weeds that may be causing blockages (annually or as required). Monitoring: • Initial inspection (monthly). Inspect for poor performance and inspection chambers (annually).
Hydro-Brake Flow Control	Low amounts of maintenance required as there are no moving parts within the Hydro-Brake® Flow Control. • Initial monthly inspection at the manhole once the construction phase is over. If blockages occur they normally do so at the intake. Hydro-Brake® Flow Controls are fitted with a pivoting by-pass door, which allows the manhole chamber to be drained down should blockages occur. Inspection should be undertaken annually or when a storm event occurs.
Below ground piped drainage network	Regular maintenance: • Remove sediment and debris from pre-treatment devices and floor of inspection tube or chamber (annually). • Cleaning of gutters and any filters on downpipes (annually). • Trimming any roots that may be causing blockages (annually or as required). Monitoring: • Inspect silt traps and note rate of sediment accumulation (monthly in the first year and then annually).

18. Methodology and limitations of study

This report assesses the feasibility of infiltration SuDS and alternative drainage strategies in support of the Site development process. From April 6th 2015 SuDS are regulated by Local Planning Authorities and will be required under law for major developments in all cases unless demonstrated to be inappropriate. What is considered appropriate in terms of costs and benefits by the Planning Authority will vary depending on local planning policy, and Site setting. The Lead Local Flood Authority will require information as a statutory consultee on major planning applications with surface water drainage implications. The National Planning Policy Framework requires that new developments in areas at risk of flooding should give priority to the use of SuDS and demonstrate that the proposed development does not increase flood risk downstream to third parties.

How was the suitability of SuDS estimated for the Site?

There are a range of SuDS options available to provide effective surface water management that intercept and store excess runoff. When considering these options, the destination of the runoff should be assessed using the order of preference outlined in the Building Regulations Part H document (HM Government, 2010) and Defra's Draft National Standards for SuDS (2011):

1. Discharge to the ground;
2. Discharge to a surface water body;
3. Discharge to a surface water sewer;
4. Discharge to a local highway drain; and
5. Discharge to a combined sewer.

Data sets relating to each of the potential discharge options have been analysed to assess the feasibility of each option according to the hierarchy set out above. Hydrogeological characteristics for the Site are assessed in conjunction with the occurrence of SPZ's to assess infiltration suitability. The Site has been screened to determine whether flood risk from groundwater, surface water, fluvial or coastal sources may constrain SuDS. The distance to surface water bodies and sewers has been reviewed gauge whether these provide alternative options.

GeoSmart SuDS Infiltration Suitability Map (SD50)

The GeoSmart SuDS Infiltration Suitability Map (SD50) screens the suitability for infiltration drainage in different parts of the Site and indicates where further assessment is recommended. In producing the SuDS Infiltration Suitability Map (SD50), GeoSmart used data from the British Geological Survey on groundwater levels, geology and permeability to screen for areas where infiltration SuDS may be suitable. The map classifies areas into 3 categories of High, Medium and Low suitability for infiltration SuDS. This can then be used in conjunction with additional data on Site constraints to give recommendations for SuDS design and further investigation.

The primary constraint on infiltration potential is the minimum permeability of the underlying material and in some cases the range in permeability may be considerable, ranging down to low. The map classifies these areas as moderate infiltration suitability requiring further investigation. In cases where the thickness of the receiving permeable horizon is less than 1.5 meters then additional Site investigation is recommended. If the Site is at risk of groundwater flooding for up to the 1% annual occurrence the map classifies these areas as moderate infiltration suitability requiring further investigation.

The GeoSmart SuDS Infiltration Suitability Map (SD50) is a national screening tool for infiltration SuDS techniques but a Site specific assessment should be used before final detailed design is undertaken. Further information on the GeoSmart SuDS Infiltration Suitability Map (SD50) is available at geosmartinfo.co.uk

How is the suitability to discharge to sewers and watercourses calculated?

The suitability to discharge to discharge to sewers and watercourses has been calculated using the distance from the Site to both. For example, where the Site is within 50m of a surface water body. Discharge to surface water is potentially appropriate subject to land access arrangements and a feasibility assessment. Where the Site is within 50m of a sewer, discharge to sewer is potentially appropriate subject to land access arrangements and a feasibility assessment. The utility company should be contacted to agree connection feasibility and sewer capacity.

Further information relating to sewers available in the area can be found in Appendix A in Section 12 of this report.

What is a Source Protection Zone?

The Environment Agency have defined Source Protection Zones (SPZs) for 2000 groundwater sources such as wells, boreholes and springs used for public drinking water supply. These zones show the risk of contamination from any activities that might cause pollution in the area. The closer the activity, the greater the risk. The maps show three main zones (inner, outer and total catchment) and a fourth zone of special interest, which is occasionally applied. The zones are used to set up pollution prevention measures in areas which are at a higher risk. The shape and size of a zone depends on the condition of the ground, how the groundwater is removed, and other environmental factors. Inner zone (Zone 1) is defined as the 50 day travel time from any point below the water table to the source (minimum radius of 50 metres). Outer zone (Zone 2) is defined by a 400 day travel time. Total catchment (Zone 3) is defined as the area around a source within which all groundwater recharge is presumed to be discharged at the source.

How was surface water runoff estimated from the site?

In accordance with The SuDS Manual (C753) (CIRIA, 2015), the Greenfield runoff from the Site has been calculated using the IoH124 method and is assumed representative of the runoff generated on the undeveloped surfaces that are affected by the proposed development. The method used for calculating the runoff complies with the NPPF (DGLC, 2014). For the impermeable surfaces, it has been assumed that 100% runoff will occur (calculations provided in Appendix A). Rainfall data is derived from the Flood Estimation Handbook (FEH) CD-ROM, developed by NERC (2009). Only areas affected by the proposed development are

considered in the flow and volume calculations. Permeable areas that remain unchanged are not included in the calculations as it is assumed these will not be actively drained and attenuated.

What is the peak discharge rate?

An estimation of peak runoff flow rate and volume is required to calculate infiltration, storage and discharge requirements. The peak discharge rate is the maximum flow rate at which surface water runoff leaves the Site during a particular storm event, without considering the impact of any mitigation such as storage, infiltration or flow control. Proposed discharge rates (with mitigation) should be no greater than existing rates for all corresponding storm events. If all drainage is to infiltration there will be no discharge off Site. Discharging all flow from Site at the existing 1 in 100 event would increase flood risk during smaller events. Flow restriction is generally required to limit the final discharge from Site during all events as a basic minimum to the green field QBAR rate. A more complex flow restriction which varies the final discharge rate from the Site depending on the storm event will reduce the volume of storage required on Site. Drainage to infiltration SuDS is subtracted from the total discharge off Site to achieve a beneficial net affect.

What is the total discharge volume?

The total discharge volume is calculated on the basis of the surface water runoff that has the potential to leave the Site as a result of the assumed 6 hour duration design storm event. The runoff is related to the underlying soil conditions, impermeable cover, rainfall intensity and duration of the storm event. The total volume generated by the current Site is compared to the potential total volume from the developed Site (not taking into consideration any mitigation). The difference provides the minimum total volume that will need to be stored and infiltrated on Site or released at a controlled rate. Guidance indicates that the total discharge volume should never exceed the runoff volume from the development Site prior to redevelopment for that event and should be as close as is reasonably practicable to the Greenfield runoff volume.

19. Background SuDS information

SuDS control surface water runoff close to where it falls. SuDS are designed to replicate, as closely as possible, the natural drainage from the Site before development to ensure that the flood risk downstream does not increase as a result of the Site being developed, and that the Site will have satisfactory drainage under current and likely future climatic conditions. SuDS provide opportunities to reduce the causes and impacts of flooding; remove pollutants from urban runoff at source; and combine water management with green space with benefits for amenity, recreation and wildlife. Government planning policy and planning decisions now include a presumption in favour of SuDS being used for all development Sites, unless they can be shown to be inappropriate.

For general information on SuDS see our website: <http://geosmartinfo.co.uk/>

Infiltration SuDS

Government policy for England is to introduce sustainable drainage systems (SuDS) via conditions in planning approvals. Guidance indicates that capturing rainfall runoff on Site and infiltrating it into the ground (infiltration SuDS) is the preferred method for managing surface water without increasing flood risk downstream.

The greatest benefit to general flood risk is if all runoff is infiltrated on Site, however, this may not be feasible due to physical and economic constraints in which case infiltration may be considered as a part of an integrated drainage solution. The final design capacity for an infiltration SuDS system depends on the Site constraints and the requirements of the individual Planning Authority and the Lead Local Flood Authority.

The capacity of the ground to receive infiltration depends on the nature, thickness and permeability of the underlying material and the depth to the high groundwater table. The final proportion of the Site drained by infiltration will depend on topography, outfall levels and a suitable drainage gradient. It is important to note that, even if the whole Site cannot be drained by infiltration, the use of partial infiltration is encouraged, with the remainder of runoff discharged via other SuDS systems.

Types of infiltration SuDS

Infiltration components include infiltration trenches, soakaways, swales and infiltration basins without outlets, rain gardens and permeable pavements. These are used to capture surface water runoff and allow it to infiltrate (soak) and filter through to the subsoil layer, before returning it to the water table below.

An infiltration trench is usually filled with permeable granular material and is designed to promote infiltration of surface water to the ground. An infiltration basin is a dry basin or depression designed to promote infiltration of surface water runoff into the ground. Soakaways are the most common type of infiltration device in the UK where drainage is often connected to over-sized square or rectangular, rubble-filled voids sited beneath lawns. According to the guidance in Building Research Establishment (BRE) Digest 365 (2007) a soakaway must be able to discharge 50% of the runoff generated during a 1 in 10 year storm event within 24 hours in readiness for subsequent storm flow. This is the basic threshold criteria for a soakaway design and the internal surface area of the proposed soakaway design

options should be calculated on this basis by taking into account the soil infiltration rate for the Site.

Developers need to ensure their design takes account of the construction, operation and maintenance requirements of both surface and subsurface components, allowing for any machinery access required.

SuDS maintenance and adoption

Regular maintenance is essential to ensure effective operation of the soakaway(s) over the intended lifespan of the proposed development. A maintenance schedule for SuDS is required. Sewerage undertakers or Local Authorities may adopt SuDS and will require maintenance issues to be dealt with in accordance with their Management Plan. If the SuDS will not be adopted other provision is required with associated financial implications. Maintenance is a long-term obligation requiring the upkeep of all elements of the SuDS, including mechanical components (e.g. pumps), as well as inspections, regular maintenance and repair.

Additional background SuDS information can be found on our website: <http://geosmartinfo.co.uk/>

20. References and glossary

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JBA, 2014. Hinckley and Bosworth Borough Council, Blaby District Council and Oadby and Wigston Borough Council Joint Strategic Flood Risk Assessment. Accessed from: [file:///C:/Users/JLA/Downloads/1_Joint_Strategic_Flood_Risk_Assessment_Oct_2014%20\(2\).pdf](file:///C:/Users/JLA/Downloads/1_Joint_Strategic_Flood_Risk_Assessment_Oct_2014%20(2).pdf) on 10/12/2018.

Glossary³

Attenuation	Reduction of peak flow and increased duration of a flow event.
Combined sewer	A sewer designed to carry foul sewage and surface water in the same pipe.
Detention basin	A vegetated depression, normally is dry except after storm events, constructed to store water temporarily to attenuate flows. May allow infiltration of water to the ground.
Evapotranspiration	The process by which the Earth's surface or soil loses moisture by evaporation of water and by uptake and then transpiration from plants.
FEH	Flood Estimation Handbook, produced by Centre for Ecology and Hydrology, Wallingford (formerly the Institute of Hydrology).
Filter drain or trench	A linear drain consisting of a trench filled with a permeable material, often with a perforated pipe in the base of the trench to assist drainage, to store and conduct water, but may also be designed to permit infiltration.
First flush	The initial runoff from a site or catchment following the start of a rainfall event. As runoff travels over a catchment it will collect or dissolve pollutants, and the "first flush" portion of the flow may be the most contaminated as a result. This is especially the case for intense storms and in small or more uniform catchments. In larger or more complex catchments pollution.
Flood plain	Land adjacent to a watercourse that would be subject to repeated flooding under natural conditions (see Environment Agency's Policy and practice for the protection of flood plains for a fuller definition).
Greenfield runoff	This is the surface water runoff regime from a site before development, or the existing site conditions for brownfield redevelopment sites.
Impermeable surface	An artificial non-porous surface that generates a surface water runoff after rainfall.
Permeability	A measure of the ease with which a fluid can flow through a porous medium. It depends on the physical properties of the medium, for example grain size, porosity and pore shape.
Runoff	Water flow over the ground surface to the drainage system. This occurs if the ground is impermeable, is saturated or if rainfall is particularly intense.
Sewerage undertaker	This is a collective term relating to the statutory undertaking of water companies that are responsible for sewerage and sewage

	disposal including surface water from roofs and yards of premises.
Soakaway	A subsurface structure into which surface water is conveyed to allow infiltration into the ground.
Treatment	Improving the quality of water by physical, chemical and/or biological means.

3 The terms included in this glossary have been taken from CIRIA (2015) guidance.

21. Appendices

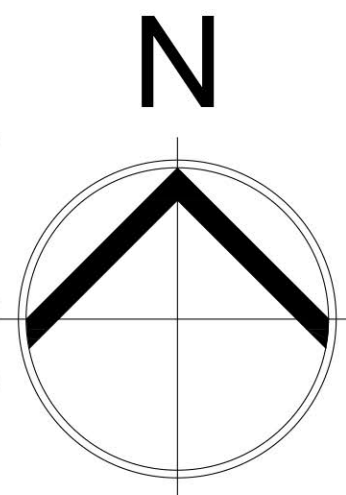
Appendix A

Site plans (layout and topography)



The Builder is to check and verify all buildings and site dimensions, levels and sewer invert levels prior to commencement of work.
Do not scale off this drawing, work to figured dimensions only.
This drawing must be read and checked with all structural and relevant specialist drawings.
The Builder is to comply in all respects with the current Building Regulations and latest Codes of Practice.
Copyright of this drawing and of work executed from it remain the property of Ritchie & Ritchie Architects LLP

Plot	Beds	sq.m.	sq.ft.
1	3	114.5	1232
2	3	114.5	1232
3	3	114.5	1232
4	3	114.5	1232
5	3	114.5	1232
6	3	74.8	805
7	3	74.8	805
8	3	83.1	895
9	3	83.1	895
10	3	83.1	895
11	3	114.5	1232
12	3	114.5	1232
13	3	114.5	1232
14	3	114.5	1232
Total		1398	15046



Revisions		
No.	Description	Date

Mr P. Collis,
Hinckley Reservoir, Hinckley

New Residential Development



Ritchie & Ritchie Architects LLP
The Manor House, Lichfield Street, Tamworth,
Staffordshire, B79 7QF
+44 (0)1827 62251
www.randrarchitects.co.uk

Site Plan

Scale	Date	Drawn	Job	Drawing
1:500 A1	Dec 2018	IDR	7698	150



SURVEY NOTES
Survey related to OS Grid Base (OSGB36 15)
All levels related to OS Datum (OSGB36 15)
No physical entry to sewers have been undertaken. All pipe sizes are measured/estimated from the ground. These should be checked with local authority records or on site prior to commencement of works.
Boundaries shown are physical feature and do not represent legally conveyed ownership.
This survey should only be used for its original purpose. Optimal Surveys Ltd accept no responsibility for this survey if applied to any other party other than the specified client.

Abbreviations			
BH	Bore Hole	GY	Gully Grate
BL	Bed Level	GV	Gas Valve
BO	Bottom	IC	Inspection Cover
BT	BT Box	IL	Invert Level
BU	Bush	KO	Kerb Outlet
BK	Box (Utilities)	LP	Lamp Post
ChA	Channel line	MH	Manhole
CL	Cover Level	MP	Marker Post
CD	Column	NB	Name Board
DK	Drop Kerb	PB	Post Box
DR	Drain	PM	Parking Meter
EDO	Edging Line	PD	Post
EP	Electric Pole	RE	Road Eye
ER	Earth Rod	RP	Reflector Post
FH	Fire Hydrant	RS	Road Sign
FL	Floor Level	SC	Stop Cock
SI	Sign Post	SV	Stop Valve
TAC	Tactile Paving	TC	Telecom Cover
TH	Tree Pit	TL	Traffic Light
ToW	Top of Wall	TP	Telegraph Pole
UC	Unknown Cover	TV	Cable TV Cover
UK	Unknown Tree	VL	Valve
UTL	Unsure To Lift	WB	Waste Bin
VP	Vent Pipe	WL	Water Level
WM	Water Meter		

Symbols	
Col	Column
Control Station	
Fence types	
B/W	Barbed Wire
C/B	Close Boarded
C/L	Chain Link
C/P	Chestnut Paling
I/R	Iron Rolling
Pan	Panel Fence
P/R	Post & Rail
P/W	Post & Wire

Features	
Fences	C/B 1.6m
Walls	Wall 1.2m
Hedges	Hedge 1.2m
Overhead Line	Overhead Line
indicative position of cables.	

Services	
Drainage ditches, connections and invert levels have been established by unobtrusive methods and any critical dimensions/connections should be verified.	
Foul Sewers	FW MH
Storm Sewers	SW MH

Services and detail may not have been identified if obstructed or not reasonably visible at the time of survey.
Pipe position and alignment is indicative only.

Trees	
Trees are drawn to scale on the survey, descriptions should only be used as a guide.	
Deciduous	
Coniferous	

All dimensions are in metres unless otherwise stated.
All critical dimensions and measurements should be based on the original digital data and verified by Optimal Surveys. Any errors or discrepancies should be notified to Optimal Surveys immediately.
DO NOT SCALE FROM PAPER DRAWINGS

REV	DATE	AMENDMENT

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DATE: 26.06.18	SCALE: 1:200 @ A0

E-MAIL : info@optimalsurveys.co.uk



1 HAMES CLOSE, ROTHLEY, LEICESTER, LE7 7NZ
TEL: 07841023319 07841023170

PROJECT:
SEVERN TRENT RESERVOIR, HINKLEY

TITLE:
TOPOGRAPHICAL SURVEY

DRAWING No. CS.OPS.001	REV ...
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Appendix B

Rainfall runoff calculations

Developed site run-off calculation sheet																			
1 in 1 year				1 in 30 year								1 in 100 year							
Proposed impermeable area		0.269 ha		Proposed impermeable area		0.269 ha						Proposed impermeable area		0.269 ha					
CC Factor		40%		CC Factor		40%						CC Factor		40%					
Total volume for surfaces during 6 hour event		65.22 m³		Total volume for surfaces during 6 hour event		138.52 m³						Total volume for surfaces during 6 hour event		174.63 m³					
Total volume for 6 hour event inc CC		91.31 m³		Total volume for 6 hour event inc CC		193.93 m³						Total volume for 6 hour event inc CC		244.49 m³					
Total volume for 6 hour event exc CC		65.22 m³		Total volume for 6 hour event exc CC		138.52 m³						Total volume for 6 hour event exc CC		174.63 m³					
Duration		Rainfall 1 yr event	Run-off rate 1 yr event	Run-off rate 1 yr cc event	Duration		Rainfall 30 yr event	Run-off volume 30 yr event	Run-off volume 30 yr cc event			Duration		Rainfall 100 yr event	Run-off volume 100 yr event	Run-off volume 100 yr cc event			
hours	mm	m³	m³		hours	mm	m³	m³		Outflow at 5 l/s	inflow from rain	Diff (storage required)	hours	mm	m³	m³	Outflow at 5 l/s	inflow from rain	Diff (storage required)
0.25	7.40	19.87	27.82		0.25	19.81	53.19	74.47		4.50	53.19	48.69	0.25	24.02	64.49	90.29	4.50	90.29	59.99
0.5	9.43	25.32	35.45		0.5	25.89	69.51	97.32		9.00	69.51	60.51	0.5	31.59	84.82	118.75	9.00	118.75	75.82
0.75	10.73	28.81	40.33		0.75	29.54	79.31	111.04		13.50	79.31	65.81	0.75	36.10	96.93	135.70	13.50	135.70	83.43
1	11.63	31.23	43.72		1	32.16	86.35	120.89		18.00	86.35	68.35	1	39.50	106.06	148.48	18.00	148.48	88.06
2	16.06	43.12	60.37		2	39.36	105.68	147.95		36.00	105.68	69.68	2	48.29	129.66	181.52	36.00	181.52	93.66
3	18.98	50.96	71.35		3	43.85	117.74	164.83		54.00	117.74	63.74	3	54.29	145.77	204.08	54.00	204.08	91.77
4	21.17	56.84	79.58		4	47.09	126.44	177.01		72.00	126.44	54.44	4	58.77	157.80	220.92	72.00	220.92	85.80
5	22.88	61.43	86.01		5	49.59	133.15	186.41		90.00	133.15	43.15	5	62.24	167.11	233.96	90.00	233.96	77.11
6	24.29	65.22	91.31		6	51.59	138.52	193.93		108.00	138.52	30.52	6	65.04	174.63	244.49	108.00	244.49	66.63
8	26.51	71.18	99.65		8	54.55	146.47	205.05		144.00	146.47	2.47	8	69.25	185.94	260.31	144.00	260.31	41.94
10	28.21	75.74	106.04		10	56.74	152.35	213.29		180.00	152.35	-27.65	10	72.32	194.18	271.85	180.00	271.85	14.18
12	29.59	79.45	111.23		12	58.46	156.97	219.75		216.00	156.97	-59.03	12	74.70	200.57	280.80	216.00	280.80	-15.43
16	31.72	85.17	119.24		16	61.07	163.97	229.56		288.00	163.97	-124.03	16	78.11	209.73	293.62	288.00	293.62	-78.27
20	33.39	89.65	125.51		20	63.05	169.29	237.00		360.00	169.29	-190.71	20	80.64	216.52	303.13	360.00	303.13	-143.48
24	34.79	93.41	130.78		24	64.71	173.75	243.24		432.00	173.75	-258.25	24	82.70	222.05	310.87	432.00	310.87	-209.95
28	36.01	96.69	135.36		28	66.21	177.77	248.88		504.00	177.77	-326.23	28	84.38	226.56	317.18	504.00	317.18	-277.44
32	37.11	99.64	139.50		32	67.61	181.53	254.15		576.00	181.53	-394.47	32	85.88	230.59	322.82	576.00	322.82	-345.41
36	38.13	102.38	143.33		36	68.91	185.02	259.03		648.00	185.02	-462.98	36	87.25	234.27	327.97	648.00	327.97	-413.73
40	39.08	104.93	146.90		40	70.15	188.35	263.69		720.00	188.35	-531.65	40	88.52	237.68	332.75	720.00	332.75	-482.32
44	39.99	107.37	150.32		44	71.33	191.52	268.13		792.00	191.52	-600.48	44	89.72	240.90	337.26	792.00	337.26	-551.10
48	40.86	109.71	153.59		48	72.46	194.56	272.38		864.00	194.56	-669.44	48	90.86	243.96	341.54	864.00	341.54	-620.04

Greenfield Site Run-Off Calculations using the loH124 method

Greenfield peak run-off rate (QBAR):

Parameters	Input	Units	Comments
Area	50	ha	mimimum 50ha
SAAR	647	mm	FEH CD ROM (NERC, 2009)
SPR	0.47	N/A	Soil run-off coefficient
Region	4	N/A	Region on Hydrological area map

QBAR

$$Q_{\text{BAR(rural)}} = 1.08 \text{AREA}^{0.89} \text{SAAR}^{1.17} \text{SPR}^{2.17}$$

Where:

$Q_{\text{BAR(rural)}}$	is the mean annual flood (a return period of 2.3 years) in l/s
AREA	is the area of the catchment in km ² (minimum of 0.5km ²)
SAAR	is the standard average rainfall for the period 1941 to 1970 in mm
SPR	is the soil run-off coefficient

$Q_{\text{BAR(rural)}}$ can be factored by the UK Flood Studies Report regional growth curves to produce peak flood flows for any return period.

$Q_{\text{BAR(rural)}}$	=	220.15	l/s for 50ha site
Divided by 50 to scale down	=	4.40	l/s/ha
Actual Area of the entire Site	=	0.45	ha

Return Periods (Growth curves obtained from DEFRA report)

Return Period		Growth Factor	Peak site run-off rate	
			l/s/ha	(l/s)
1	$Q_{\text{BAR(rural)}} \times$	0.85	3.74	1.698
2	$Q_{\text{BAR(rural)}} \times$	0.89	3.92	1.78
5	$Q_{\text{BAR(rural)}} \times$	1.23	5.42	2.46
10	$Q_{\text{BAR(rural)}} \times$	1.49	6.56	2.98
25	$Q_{\text{BAR(rural)}} \times$	1.87	8.23	3.74
30	$Q_{\text{BAR(rural)}} \times$	1.92	8.45	3.836
50	$Q_{\text{BAR(rural)}} \times$	2.2	9.69	4.40
100	$Q_{\text{BAR(rural)}} \times$	2.57	11.32	5.14
200	$Q_{\text{BAR(rural)}} \times$	2.98	13.12	5.95

Greenfield total run-off volume:

= actual area of the entire site x SPR x 6 hour rainfall depth

Return Period	6 hour rainfall (mm) from FEH CD-ROM	Area (ha)	SPR	Total run-off (m ³)
2.3 (QBAR)	25.65	0.45	0.47	54.7
1	24.29	0.45	0.47	51.8
10	38.35	0.45	0.47	81.8
30	51.59	0.45	0.47	110.0
100	65.04	0.45	0.47	138.7

Summary				
Entire site area:	0.454 ha			
Climate Change Factor	40%			
	Current	Proposed		
Permeable Surface (ha)	0.030		0.185	
Impermeable Surface (ha)	0.424		0.269	
1 in 1 year				
Greenfield run-off volume total:	51.81 m³			
RUN-OFF During a 1 in 1 year 6 hour event:	Greenfield Site	Current Development	Proposed Development	Proposed Development +CC
From permeable surfaces (using GF total run-off) (m³)	51.81	3.42	21.15	29.62
From impermeable surfaces (m³)		102.94	65.22	91.31
TOTAL run-off produced from Site (m³)	51.81	106.37	86.37	120.92
Difference between greenfield site and proposed +cc development (m³):				69.12
				133%
Difference between current and proposed +cc development (m³):				14.56
				14%
Peak Greenfield run-off rate that must not be exceeded in the run-off from the proposed development (l/s):				1.70
1 in 10 year				
Greenfield run-off volume total:	81.80 m³			
RUN-OFF During a 1 in 1 year 6 hour event:	Greenfield Site	Current Development	Proposed Development	Proposed Development +CC
From permeable surfaces (using GF total run-off) (m³)	81.80	5.41	33.40	46.76
From impermeable surfaces (m³)		156.93	99.43	139.20
TOTAL run-off produced from Site (m³)	81.80	162.34	132.82	185.95
Difference between greenfield site and proposed +cc development (m³):				104.16
				127%
Difference between current and proposed +cc development (m³):				23.61
				15%
Peak Greenfield run-off rate that must not be exceeded in the run-off from the proposed development (l/s):				2.98
1 in 30 year				
Greenfield run-off volume total:	110.03 m³			
RUN-OFF During a 1 in 30 year 6 hour event:	Greenfield Site	Current Development	Proposed Development	Proposed Development +CC
From permeable surfaces (using GF total run-off) (m³)	110.03	7.27	44.93	62.90
From impermeable surfaces (m³)		218.64	138.52	193.93
TOTAL run-off produced from Site (m³)	110.03	225.91	183.45	256.83
Difference between greenfield site and proposed +cc development (m³):				146.79
				133%
Difference between current and proposed +cc development (m³):				30.92
				14%
Peak Greenfield run-off rate that must not be exceeded in the run-off from the proposed development (l/s):				3.84
1 in 100 year				
Greenfield run-off volume total:	138.72 m³			
RUN-OFF During a 1 in 100 year 6 hour event:	Greenfield Site	Current Development	Proposed Development	Proposed Development +CC
From permeable surfaces (using GF total run-off) (m³)	138.72	9.17	56.64	79.30
From impermeable surfaces (m³)		275.64	174.63	244.49
TOTAL run-off produced from Site (m³)	138.72	284.81	231.28	323.79
Difference between greenfield site and proposed +cc development (m³):				185.07
				133%
Difference between current and proposed +cc development (m³):				38.98
				14%
Peak Greenfield run-off rate that must not be exceeded in the run-off from the proposed development (l/s):				5.14

Appendix C

Regulated Drainage and Water Search

Regulated Drainage & Water Search



Search Details

Prepared for: GeoSmart

Matter: 6626.06.01

Client address: Suite 9-11, Old Bank Buildings, Bellstone, Shrewsbury, SY1 1HU

Property:

Hinckley DSR, Highfields Road, Hinckley, LE10 1UT

Water Company:

Severn Trent Water Ltd

Date Returned:
10/12/2018

Property type:
Residential

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Summary for Conveyancers

This summary identifies matters revealed which you may wish to highlight to your client or investigate further. It is intended as a snapshot of the information contained in the search, should in no way be considered legal advice, and should be taken in context with the full search information and with your client's planned use and enjoyment of the property.



Maps

1.1	Where relevant, please include a copy of an extract from the public sewer map	Map Provided
1.2	Where relevant, please include a copy of an extract from the map of waterworks	Map Provided



Drainage

2.1	Does foul water from the property drain to the public sewer?	See report
2.2	Does surface water from the property drain to the public sewer?	See report
2.3	Is a surface water drainage charge payable?	Refer to Vendor
2.4	Does the public sewer map indicate any public sewer, disposal main or lateral drain within the boundaries of the property?	Yes
2.4.1	Does the public sewer map indicate any public sewage pumping station within the boundaries of the property?	No
2.5	Does the public sewer map indicate any public sewer within 30.48 metres (100 feet) of any buildings within the property?	Yes
2.5.1	Does the public sewer map indicate any public pumping station within 50 metres (164.04 feet) of any buildings within the property?	Insured
2.6	Are any sewers or lateral drains serving, or which are proposed to serve the property, the subject of an existing adoption agreement or an application for such an agreement?	No
2.7	Has any Sewerage Undertaker approved or been consulted about any plans to erect a building or extension on the property over or in the vicinity of a public sewer, disposal main or drain?	No
2.8	Is any building which is, or forms part of the property, at risk of internal flooding due to overloaded public sewers?	Insured
2.9	Please state the distance from the property to the nearest boundary of the nearest sewage treatment works	Insured



Water

3.1	Is the property connected to mains water supply?	See report
3.2	Are there any water mains, resource mains or discharge pipes within the boundaries of the property?	Yes
3.3	Is any water main or service pipe serving, or which is proposed to serve the property, the subject of an existing adoption agreement or an application for such an agreement?	No
3.4	Is this property at risk of receiving low water pressure or flow?	Insured
3.5	What is the classification of the water supply for the property?	See report
3.6	Please include details of the location of any water meter serving the property	See report



Charging

4.1.1	Who is responsible for providing the sewerage services for the property?	Severn Trent Water
4.1.2	Who is responsible for providing the water services for the property?	Severn Trent Water
4.2	Who bills the property for sewerage services?	Severn Trent Water
4.3	Who bills the property for water services?	Severn Trent Water
4.4	What is the current basis for charging for sewerage and/or water services at the property?	See report
4.5	Will the basis for charging for sewerage and water services at the property change as a consequence of a change of occupation?	Insured



Question 1.1

Where relevant, please include a copy of an extract from the public sewer map

A copy of an extract from the public sewer map is included in which the location of the property is identified



Guidance Notes:

Pipes that are shown on the public sewer map as sewers, disposal mains or lateral drains are defined as those for which a Sewerage Undertaker holds statutory responsibility under the Water Industry Act 1991. A Sewerage Undertaker is not generally responsible for rivers, water courses, ponds, culverts or highway drains. If any of these are shown on the copy extract they are shown for information only. Sewers or lateral drains indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are not an 'as constructed' record. It is recommended that these details are checked with the developer, if any. Please note that following the private sewer transfer on 1 October 2011 there may be additional public assets other than those shown on the public sewer map.

Question 1.2

Where relevant, please include a copy of an extract from the map of waterworks

A copy of an extract from the map of waterworks is included in which the location of the property is identified

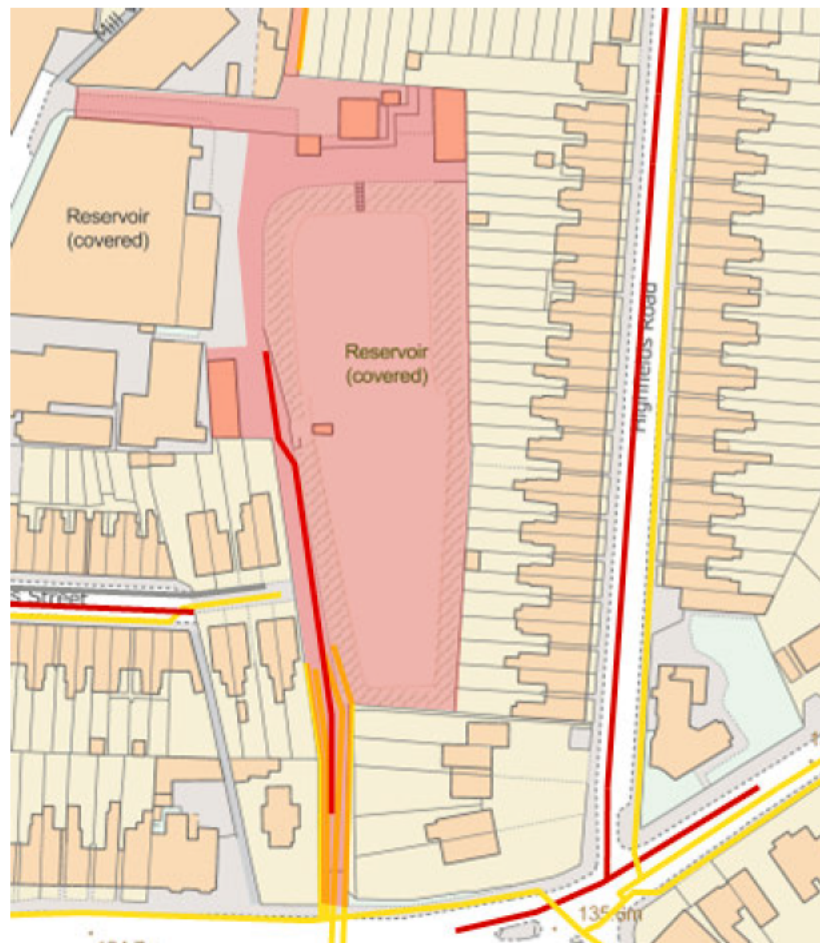


Guidance Notes:

Pipes that are shown on the map of waterworks as water mains, resource mains or discharge pipes are defined as those for which a Water Undertaker holds statutory responsibility under the Water Industry Act 1991. Water Undertakers are not responsible for private water mains or private service pipes connecting the property to the public water main and do not hold details of these. These may pass through land outside of the control of the seller, or may be shared with adjacent properties. The buyer may wish to investigate whether separate rights or easements are needed for their inspection, repair or renewal. The extract of the map of waterworks shows water mains in the vicinity of the property. It should be possible to estimate the likely length and route of any private water supply pipe connecting the property to the public water network.



Public Sewer & Water Map



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 Public Combined Sewer	 Public Foul Sewer
 Public Surface Water Sewer	 Abandoned Public Sewer
 Water Pipes	 Sewer Publicly Maintained under Section 24 Public Health Act 1936
 Section 104 Surface Water Sewer	 Section 104 Foul Sewer
 Decommissioned Water	 Public Sewage Pumping Station

This map is provided by InfoTrack Ltd, trading as STL and must be used in conjunction with the search results attached. Please note, the boundary may have been adjusted from the plan provided so that it reflects the National Polygon dataset provided by the Land Registry. This dataset covers all registered titles (freehold and leasehold) in England and Wales and shows the indicative shape and position of each boundary. The information shown on the map is based on data obtained from various sources but the position of any water company apparatus must be regarded as approximate. Service pipes, private sewers and drains are generally not shown. This map should not be used for detailed design of any proposed works and users of this map are strongly advised to commission their own survey of the area before carrying out any works to establish the actual position of all apparatus.



Question 2.1

Does foul water from the property drain to the public sewer?

This enquiry appears to relate to a plot of land, recently built property or new development. It is recommended that drainage proposals are checked with the developer.



Guidance Notes:

The above answer is inferred from the proximity of a public sewer as indicated on the enclosed map. If the inference is wrong, the attached Information Accuracy Indemnity covers an adverse entry. For confirmation, please refer to billing information, form TA6 or the Property Details Questionnaire which confirms connection to mains drainage. Sewerage Undertakers are not responsible for private drains and private sewers that connect the property to the public sewerage system, and do not hold details of these. The property owner will normally have sole responsibility for private drains serving the property and may have shared responsibility with other users if the property is served by a private sewer which also serves other properties if not connected to the public sewerage system. These may pass through land outside of the control of the seller and the buyer may wish to investigate whether separate rights or easements are needed for their inspection, repair or renewal. An extract from the public sewer map is enclosed. This will show known public sewers and lateral drains in the vicinity of the property and it should be possible to estimate the likely length and route of any private drains and/or private sewers connecting the property to the public sewerage system. If foul water does not drain to the public sewerage system the property may have private facilities in the form of a septic tank, cesspit or other type of treatment plant.

Question 2.2

Does surface water from the property drain to the public sewer?

This enquiry appears to relate to a plot of land, recently built property or new development. It is recommended that drainage proposals are checked with the developer.



Guidance Notes:

The above answer is inferred from the proximity of a public sewer as indicated on the enclosed map. If the inference is wrong, the attached Information Accuracy Indemnity covers an adverse entry. For confirmation, please refer to billing information, form TA6 or the Property Details Questionnaire which confirms connection to mains drainage. Sewerage Undertakers are not responsible for private drains and private sewers that connect the property to the public sewerage system, and do not hold details of these. The property owner will normally have sole responsibility for private drains serving the property and may have shared responsibility with other users if the property is served by a private sewer which also serves other properties. These may pass through land outside of the control of the seller and the buyer may wish to investigate whether separate rights or easements are needed for their inspection, repair or renewal. In some cases, Sewerage Undertaker records do not distinguish between foul and surface water connections to the public sewerage system. If on inspection the buyer finds that the property is not connected for surface water drainage, the property may be eligible for a rebate of the surface water drainage charge. Details can be obtained from the Water Company. An extract from the public sewer map is enclosed. This will show known public sewers and lateral drains in the vicinity of the property and it should be possible to estimate the likely length and route of any private drains and/or private sewers connecting the property to the public sewerage system. If surface water does not drain to a public sewer the property may have private facilities in the form of a soakaway or private connection to a watercourse. Please note, the property may drain to a Sustainable Urban Drainage System (SuDs), please refer to the Local Authority Search for further information.



Question 2.3

Is a surface water drainage charge payable?

Please refer to vendor or pre-contract documents and/or your own survey of the property



Guidance Notes:

Where surface water charges are payable but upon inspection the property owner believes that surface water does not drain to the public sewerage system, an application can be made to the Water Company to end surface water charges.

Question 2.4

Does the public sewer map indicate any public sewer, disposal main or lateral drain within the boundaries of the property?

The public sewer map indicates that there are public sewers, disposal mains or lateral drains within the boundaries of the property. Please note, it has not always been a requirement for such public sewers, disposal mains or lateral drains to be recorded on the public sewer map. It is therefore possible for unidentified sewers, disposal mains or lateral drains to exist within the boundaries of the property. However on 1 October 2011 private sewers were transferred into public ownership. There may therefore be additional public sewers, disposal mains or lateral drains which are not recorded on the public sewer map but which may prevent or restrict development of the property.



Guidance Notes:

The approximate boundary of the property has been determined by reference to the plan provided. The presence of a public sewer, disposal main or lateral drain running within the boundary of the property may restrict further development. The Sewerage Undertaker has a statutory right of access to carry out work on its assets, subject to notice. This may result in employees of the Company or its contractors needing to enter the property to carry out work. Any private sewers or lateral drains which are indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are considered to be not an 'as constructed' record. It is recommended these details are checked with the developer.

Question 2.4.1

Does the public sewer map indicate any public sewage pumping station within the boundaries of the property?

The public sewer map included indicates that there is no public sewage pumping station within the boundaries of the property.



Guidance Notes:

The presence of a public sewage pumping station running within the boundary of the property may restrict further development. The company has a statutory right of access to carry out work on its assets subject to notice. Please note that private pumping stations built prior to 1 July 2011 which serve more than one property and pump to the existing public sewer are eligible for transfer into public ownership as of 1 October 2016. Pumping stations installed after 1 July 2011 remain the responsibility of the homeowner unless they are the subject of an adoption agreement. Please note that the Water Company may not have been made aware of all the pumping stations which meet the adoption obligation criteria and therefore there may be pumping stations not recorded on the public sewer map.



Question 2.5

Does the public sewer map indicate any public sewer within 30.48 metres (100 feet) of any buildings within the property?

The public sewer map indicates that there is a public sewer within 30.48 metres (100 feet) of a building within the property. On 1 October 2011 private sewers were transferred into public ownership, there may therefore be additional lateral drains and/or public sewers which are not recorded on the public sewer map but are within 30.48 metres (100 feet) of a building within the property.



Guidance Notes:

Any private sewers or lateral drains which are indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are not an 'as constructed' record. It is recommended these details be checked with the developer. The presence of a public sewer within 30.48 metres (100 feet) of any buildings within the property can result in the Local Authority requiring a property to be connected to the public sewer. The measure is estimated using the map provided and the water company records, between the building(s) within the boundary of the property and the nearest public sewer.

Question 2.5.1

Does the public sewer map indicate any public pumping station within 50 metres (164.04 feet) of any buildings within the property?

Not answered - This information is not available, if an answer had been available which was adverse at the date of this report the Information Accuracy Indemnity attached would apply.



Guidance Notes:

The presence of a public sewage pumping station running within the boundary of the property may restrict further development. The company has a statutory right of access to carry out work on its assets subject to notice. Please note that private pumping stations built prior to 1 July 2011 which serve more than one property and pump to the existing public sewer are eligible for transfer into public ownership as of 1 October 2016. Pumping stations installed after 1 July 2011 will remain the responsibility of the homeowner unless they are the subject of an adoption agreement. Please note that the Water Company may not have been made aware of all the pumping stations which meet the adoption obligation criteria and therefore there may be pumping stations not recorded on the public sewer map.



Question 2.6

Are any sewers or lateral drains serving, or which are proposed to serve the property, the subject of an existing adoption agreement or an application for such an agreement?

Records indicate that sewers serving the property are not the subject of an existing adoption agreement or an application for such an agreement.



Guidance Notes:

On 1 October 2011 all foul Section 104 sewers laid before 1 July 2011 were transferred into public ownership, excluding those that discharge to a privately owned sewage treatment or collection facility. All surface Section 104 sewers that do not discharge to a public watercourse were also transferred. Water Companies' mapping records are currently being reviewed and updated and may not yet reflect this change, therefore there may be additional public sewers, disposal mains or lateral drains which are not yet recorded on the public sewer map or public sewers that still show as Section 104 sewers.

Question 2.7

Has any Sewerage Undertaker approved or been consulted about any plans to erect a building or extension on the property over or in the vicinity of a public sewer, disposal main or drain?

There are no records in relation to any approval or consultation about plans to erect a building or extension on the property over or in the vicinity of a public sewer, disposal main or drain. However please note the sewerage undertaker might not be aware of a building or extension on the property over or in the vicinity of a public sewer, disposal main or drain. The attached Information Accuracy Indemnity covers adverse entries at the date of this report where data is not available.



Guidance Notes:

Buildings or extensions erected over a public sewer, disposal main or lateral drain in contravention of building controls or which conflict with the provisions of the Water Industry Act 1991 may have to be removed or altered. On 1 October 2011 the majority of private sewers, disposal mains and lateral drains, connected to the public network as of 1 July 2011, transferred to public ownership. Therefore there may be formerly private sewers and lateral drains that have been built over, however the sewerage undertaker may not have approved or been consulted about any plans to erect a building or extension on the property or in the vicinity of these. Please also refer to vendor or pre-contract documents and/or your own survey of the property.



Question 2.8

Is any building which is, or forms part of the property, at risk of internal flooding due to overloaded public sewers?

Not answered - If an answer had been available which was adverse at the date of this report the Information Accuracy Indemnity attached would apply.



Guidance Notes:

A sewer is 'overloaded' when the flow from a storm is unable to pass through it due to a permanent problem (eg. flat gradient, small diameter). Flooding as a result of temporary problems such as blockage, siltation, collapses and equipment or operational failures are excluded. 'Internal flooding' from public sewers is defined as flooding which enters a building or passes below a suspended floor. For reporting purposes, buildings are restricted to those normally occupied and used for residential, public, commercial, business or industrial purposes. 'At Risk' properties are those that the Water Company is required to include in the Regulatory Register that is reported annually to the Director General of Water Services. These are defined as properties that have suffered, or are likely to suffer, internal flooding from public foul, combined or surface water sewers due to overloading of the sewerage system more frequently than the relevant reference period (either once or twice in ten years) as determined by the Company's reporting procedure. Flooding as a result of storm events proven to be exceptional and beyond the reference period of one in ten years are not included on the At Risk register. Properties may be at risk of flooding but not included on the Register where flooding incidents have not been reported to the Company. Public sewers are defined as those for which the company holds statutory responsibility under the Water Industry Act 1991. It should be noted that flooding can occur from private sewers and drains which are not the responsibility of the Company and therefore would be excluded from the report.

Question 2.9

Please state the distance from the property to the nearest boundary of the nearest sewage treatment works

Not answered - If an answer had been available which was adverse at the date of this report the Information Accuracy Indemnity attached would apply.



Guidance Notes:

The nearest sewage treatment works will not always be the sewage treatment works serving the catchment within which the property is situated.

Question 3.1

Is the property connected to mains water supply?

This enquiry appears to relate to a plot of land, recently built property or new development. It is recommended that connection status is checked with the developer.



Guidance Notes:

The above answer is inferred from the proximity of a public water main as indicated on the enclosed map. If the inference is wrong, the attached Information Accuracy Indemnity covers an adverse entry. For confirmation, please refer to billing information, form TA6 or the Property Details Questionnaire which confirms connection to mains water, and information regarding whether a water meter is installed. Details of private supplies are not kept by the Water Undertaker. We recommend the situation is checked with the current owner of the property.



Question 3.2

Are there any water mains, resource mains or discharge pipes within the boundaries of the property?

The map of waterworks does indicate water mains, resource mains or discharge pipes within the boundaries of the property.



Guidance Notes:

The approximate boundary of the property has been determined by reference to the plan provided. The presence of public water main, resource main or discharge pipe within the boundary of the property may restrict further development within it. Water Undertakers have a statutory right of access to carry out work on their assets, subject to notice. This may result in employees of the Company or its contractors needing to enter the property to carry out work.

Question 3.3

Is any water main or service pipe serving, or which is proposed to serve the property, the subject of an existing adoption agreement or an application for such an agreement?

Records indicate that water mains or service pipes serving the property are not the subject of an existing adoption agreement or an application for such an agreement.



Guidance Notes:

Where the property is part of a very recent or ongoing development and the water mains and service pipes are not the subject of an adoption application, buyers should consult with the developer to confirm that the Water Undertaker will be asked to provide a water supply to the development or to ascertain the extent of any private water supply system for which they will hold maintenance and renewal liabilities.

Question 3.4

Is this property at risk of receiving low water pressure or flow?

Not answered - If an answer had been available which was adverse at the date of this report the Information Accuracy Indemnity attached would apply.



Guidance Notes:

'Low water pressure' means water pressure below the regulatory reference level which is the minimum pressure when demand on the system is not abnormal.



Question 3.5

What is the classification of the water supply for the property?

To check the average water hardness of water supplied to the property please visit <https://www.stwater.co.uk/my-supply/water-quality/about-your-water/water-quality-information>



Guidance Notes:

The hardness of water depends on the amount of calcium in it - the more it contains the harder the water is. There is no UK or European standard set for the hardness of drinking water. More information on water hardness can be found on the Drinking Water Inspectorates' website: <http://www.dwi.gov.uk>
If the property is in a hard water area, you may wish to refer to the vendor or pre-contract documents and/or your own survey of the property to establish if a water softener has been installed.

Question 3.6

Please include details of the location of any water meter serving the property

Please refer to vendor or pre-contract documents and / or your own survey of the property. For further information regarding the water meter serving this property please contact:

Severn Trent Water Ltd
PO Box 5310
Coventry
CV3 6DS
Tel: 08457 500 500
www.stwater.co.uk

Question 4.1.1

Who is responsible for providing the sewerage services for the property?

Please refer to vendor or pre-contract documents and / or your own survey of the property. The Sewerage Undertakers for the area are:

Severn Trent Water Ltd
PO Box 5310
Coventry
CV3 6DS
Tel: 08457 500 500
www.stwater.co.uk



Question 4.1.2

Who is responsible for providing the water services for the property?

Please refer to vendor or pre-contract documents and / or your own survey of the property. The Water Undertakers for the area are:

Severn Trent Water Ltd
PO Box 5310
Coventry
CV3 6DS
Tel: 08457 500 500
www.stwater.co.uk

Question 4.2

Who bills the property for sewerage services?

Severn Trent Water Ltd
PO Box 5310
Coventry
CV3 6DS
Tel: 08457 500 500
www.stwater.co.uk

Question 4.3

Who bills the property for water services?

Severn Trent Water Ltd
PO Box 5310
Coventry
CV3 6DS
Tel: 08457 500 500
www.stwater.co.uk



Question 4.4

What is the current basis for charging for sewerage and/or water services at the property?

Water and sewerage companies' full charges are set out in their charges schemes which are available from the company free of charge upon request.



Guidance Notes:

The Water Industry Act 1991 Section 150, The Water Resale Order 2001 provides protection for people who buy their water or sewerage services from a person or company instead of directly from a water or sewerage company.

The average household bill is, by definition, an average across all customers. Readings taken from a water meter are used to calculate metered sewerage charges, the volume charge for sewerage services is usually based on a percentage of total water supplied. To view the above information in full please visit the Office of Water Services (OFWAT) Website: <http://www.ofwat.gov.uk> Water and Sewerage Companies full charges are set out in their charges schemes which are available from the Company free of charge upon request.

Question 4.5

Will the basis for charging for sewerage and water services at the property change as a consequence of a change of occupation?

Not answered - If an answer had been available which was adverse at the date of this report the Information Accuracy Indemnity attached would apply.



Guidance Notes:

The Company may install a meter at the premises where a buyer makes a change of use of the property or where the occupier uses water for watering the garden, other than by hand (this includes the use of sprinklers) or automatically replenishing a pond or swimming pool with a capacity greater than 10,000 litres.



Glossary

'the 1991 Act' means the Water Industry Act 1991[61]

'the 2000 Regulations' means the Water Supply (Water Quality) Regulations 2000[62]

'adoption agreement' means an agreement made or to be made under Section 51A(1) or 104(1) of the 1991 Act[64]

'discharge pipe' means a pipe which discharges are made or are to be made under Section 165(1) of the 1991 Act

'disposal main' means (subject to section 219(2) of the 1991 Act) any outfall pipe or other pipe which - (a) is a pipe for the conveyance of effluent to or from any sewerage disposal works, whether of a Sewerage Undertaker or of any other person; and (b) is not a public sewer

'drain' means (subject to Section 219(2) of the 1991 Act) a drain used for the drainage of one building or of any buildings or yards appurtenant to buildings within the same curtilage

'lateral drain' means - (a) that part of a drain which runs from the curtilage of a building (or buildings or yards within the same curtilage) to the sewer with which the drain communicates or is to communicate; or (b) (if different and the context so requires) the part of a drain identified in a declaration of vesting made under Section 102 of the 1991 Act or in an agreement made under Section 104 of that Act[65]

'map of waterworks' means the map made available under Section 198(3) of the 1991 Act[67] in relation to the information specified in subsection (1A)

'private sewer' means a pipe or pipes which drain foul or surface water, or both, from premises, and are not vested in a Sewerage Undertaker

'public sewer' means, subject to Section 106(1A) of the 1991 Act[68], a sewer for the time being vested in a Sewerage Undertaker in its capacity as such, whether vested in that Undertaker - (a) by virtue of a scheme under Schedule 2 to the Water Act 1989[69]; (b) by virtue of a scheme under Schedule 2 to the 1991 Act[70]; (c) under Section 179 of the 1991 Act[71]; or (d) otherwise; 'public sewer map' means the map made available under Section 199(5) of the 1991 Act[72]

'resource main' means (subject to Section 219(2) of the 1991 Act) any pipe, not being a trunk main, which is or is to be used for the purpose of - (a) conveying water from one source of supply to another, from a source of supply to a regulating reservoir or from a regulating reservoir to a source of supply; or (b) giving or taking a supply of water in bulk

'sewerage services' includes the collection and disposal of foul and surface water and any other services which are required to be provided by a Sewerage Undertaker for the purpose of carrying out its functions

'Sewerage Undertaker' means the company appointed to be the Sewerage Undertaker under Section 6(1) of the 1991 Act for the area in which the property is or will be situated

'surface water' includes water from roofs and other impermeable surfaces within the curtilage of the property

'water main' means (subject to Section 219(2) of the 1991 Act) any pipe, not being a pipe for the time being vested in a person other than the Water Undertaker, which is used or to be used by a Water Undertaker or licensed water supplier for the purpose of making a general supply of water available to customers or potential customers of the Undertaker or supplier, as distinct from for the purpose of providing a supply to particular customers

'water meter' means any apparatus for measuring or showing the volume of water supplied to, or of effluent discharged from any premises

'water supplier' means the company supplying water in the water supply zone, whether a Water Undertaker or licensed water supplier

'water supply zone' in relation to a calendar year, means the names and areas designated by a Water Undertaker within its area of supply that are to be its water supply zones for that year

'Water Undertaker' means the company appointed to be the Water Undertaker under Section 6(1) of the 1991 Act for the area in which the property is or will be situated. In this Report, references to a pipe, including references to a main, a drain or a sewer, shall include references to a tunnel or conduit which serves or is to serve as the pipe in question and to any accessories for the pipe.



Information for Buyers

This section is a guide to the content of the regulated drainage and water search result. It should be read in association with the main report. This information should not be considered as legal advice and you should check with your conveyancer if you have any concerns about the search results.

Map of Public Sewers/Waterworks

- | | |
|---|--|
|  What is a Map of Public Sewers or Map of Waterworks? | Water companies maintain maps of sewers and water pipes for which they are responsible. Most but not all sewer and water pipes within an individual property boundary are the property owner's responsibility. |
|---|--|

Sewer & Water Maintenance

- | | |
|---|--|
|  Are all Sewer & Water Pipes publicly maintained? | <p>Sewer & Water Pipes can be either publicly or privately maintained. If they are publicly maintained, the local Sewerage or Water undertaker is responsible for repairs and maintenance. As from 1 October 2011 most lateral drains (see glossary) are now owned and maintained by the sewerage undertaker.</p> <p>Sewerage Undertakers are not responsible for any private drains and private sewers that connect the property to the public sewerage system, and do not hold details of these.</p> <p>The property owner will normally have sole responsibility for private drains and water pipes serving the property.</p> |
|---|--|

Sewers

- | | |
|---|---|
|  What is a Foul Water Sewer? | Foul sewers/drains take foul sewage (waste from toilets, bathrooms and kitchens etc) away from your property. |
|  What is a Surface Water Sewer? | <p>Surface water sewers/drains take surface water (rainwater) away from your property (includes water from roofs and other impermeable surfaces within the curtilage of the property).</p> <p>In some cases, Sewerage Undertaker records do not distinguish between foul and surface water connections to the public sewerage system. If on inspection the buyer finds that the property is not connected for surface water drainage, the property may be eligible for a rebate of the surface water drainage charge. Details can be obtained from the Water Company.</p> |
|  What is a Combined Sewer? | Combined sewers carry both foul sewage and surface water away from your property. |



Adoption Agreement

- i** What does it mean if a sewer is subject to a Section 104 adoption agreement?
- With new developments, the developer will typically lay new sewers which are 'subject to adoption'. Purchasers of new homes will want to know whether or not the property will eventually be connected to a public sewer. The adoption of private sewers and drains by the Sewerage Undertaker is subject to the developer complying with the terms of the adoption agreement made under the provisions of Section 104 of the Water Industry Act 1991. For newly built properties, where the property is part of a very recent or on-going development and the sewers are not the subject of an adoption application, buyers should consult with the developers to ascertain the extent of private drains & sewers for which they will hold maintenance & renewal liabilities.
- i** Why do I need to know if there is a public foul sewer within 30.48 metres (100 feet) of any buildings within the property?
- If foul water from the property does not drain to a public sewer, the presence of a public foul sewer within 30.48 metres (100 feet) of any buildings within the property can result in the local authority requiring the property to be connected to a public sewer if the existing arrangements are unsatisfactory.

Water Pipes

- i** What are Water Pipes?
- Water pipes (water mains, resource mains or discharge pipes) supply clean water to a property. The pipework can be either publicly or privately maintained. Water Undertakers are not responsible for private water mains or private service pipes connecting the property to the public water main and do not hold details of these. These may pass through land outside of the control of the seller, or may be shared with adjacent properties. The buyer may wish to investigate whether separate rights or easements are needed for their inspection, repair or renewal. If the property is not connected to mains water supply we recommend the situation is checked with the current owner of the property. Details of private supplies are not kept by the Water Undertaker.
- i** What does it mean if there are public water pipes or public sewers within the boundary of the property?
- The presence of public water pipes or public sewers within the boundary of the property may restrict further development. The Water and/or Sewerage Undertaker also has a statutory right of access to carry out work on its assets, subject to notice. This may result in employees of the Water Company or Sewer Undertaker or its contractors needing to enter the property to carry out work. The approximate boundary of the property has been determined by reference to the plan provided.

Information

- i** What is meant by the Private Sewer Transfer?
- On 1 October 2011, the responsibility for many private sewers and lateral drains, which drain to a public sewer and may be located both within and beyond the property boundary, transferred to the water and sewerage companies.
- The water and sewerage companies are currently undertaking an exercise to map these new public sewers and lateral drains. In the meantime however there may be additional public assets not shown on the public sewer map enclosed herein.
- For further information visit:
- <http://www.ofwat.gov.uk/households/supply-and-standards/supply-pipes/>
- The following diagram illustrate an example of the impact of the new drainage arrangements:



Sustainable Urban Drainage System (SuDS)

- i** What are Sustainable Urban Drainage Systems (SuDS)?
- Sustainable Urban Drainage System (SuDS) are designed to drain surface water from a property or site in a natural more sustainable way, than through conventional networks of pipes and sewers, to local watercourses. SuDS slow down surface water run-off and reduce the risk of flooding, particularly during heavy rain. They also improve water quality and reduce the risk of pollution that can happen when foul sewers are overwhelmed by surface water, leading to dirty water being released into rivers.

Unanswered Questions

- i** Why are certain questions not answered within this report?
- This report is compiled using publicly available information (as defined by the Water Industry Act 1991). Where data is not publicly available, we provide an insurance policy (see attached). Where we infer certain answers (Q2.1, 2.2 and 3.1) we refer you to alternative sources of information, including billing information, form TA6 or the Property Details Questionnaire which confirms connection to mains drainage, if a septic tank is installed, and information regarding whether a water meter is installed. If both our inference and the form TA6, the Property Details Questionnaire or billing information are incorrect, then our insurance policy would apply.



Regulated Drainage & Water Search Information Accuracy Indemnity Block Policy

POLICY SUMMARY

Policy Type

Regulated Drainage & Water Search Information Accuracy Policy

Policy Term

In Perpetuity from the Policy Date

The Insurer

Stewart Title Limited

Insurer's Address

6 Henrietta Street, London, WC2E 8PS

To the Policyholder. We assume the need to purchase this policy has resulted from legal advice provided to you. You should read this summary in conjunction with the full policy wording to ensure you are fully aware of the terms and conditions of the cover.

To the Intermediary. We recommend this document is provided to the Insured before the conclusion of the insurance contract.

SIGNIFICANT CONDITIONS OR EXCLUSIONS UNDER THIS POLICY

Full details of conditions and exclusions are detailed in the policy, but we would draw your attention to the following:

You, or anyone acting on your behalf, must not:

1. disclose the existence of this policy to any third party other than prospective purchasers, lenders, lessees and their legal advisers without our prior written consent
2. take or fail to take action which results in a Claim as this may prejudice your position and void the policy
3. take any steps to settle a Claim without our prior written consent.

UPDATING THE COVER

Requests to increase or extend cover can be considered. We are not permitted to provide advice or recommend how you proceed as you will need to make your own choice about this, with guidance from your intermediary.

RIGHTS TO CANCEL POLICY

This policy can be cancelled by contacting us within 14 days of the policy date, provided all interested parties (such as lenders holding a mortgage or charge on the Property) consent to cancellation. If you wish to cancel this policy, please write (quoting your policy number) to 'The Underwriting Manager' at the Insurer's Address.

HOW TO CLAIM

Please write (quoting your policy number) to 'The Claims Counsel' at the Insurer's Address or by email to ukclaims@stewart.com. You must provide details to us of any potential Claim without delay, please read the full Claims conditions within the policy.

COMPLAINTS

Any complaint should be raised in the first instance with our General Counsel by

- Writing to the General Counsel at the Insurer's Address
- Telephoning 0207 010 7820

Details of our complaints handling procedure are available by contacting our General Counsel

If we are unable to resolve your complaint to your satisfaction, you may have the right to refer your complaint to the Financial Ombudsman Service at Exchange Tower, London E14 9SR. The Financial Ombudsman Service website address is www.financial-ombudsman.org.uk/

THE FINANCIAL SERVICES COMPENSATION SCHEME (FSCS)

We are covered by the FSCS. You may be entitled to compensation from the scheme if we cannot meet our obligations. This will depend on the type of business and the circumstances of the Claim.

Further information about compensation scheme arrangements is available from the FSCS who can be contacted at Financial Services Compensation Scheme, 10th Floor, Beaufort House, 15 St Botolph Street, London EC3A 7QU. The FSCS website may be viewed at www.fscs.org.uk

BASIS OF COVER

The Insured has paid or agreed to pay the Premium for this indemnity cover.

The Insured agrees to comply with the terms and conditions of the policy. Failure by the Insured to comply can lead to invalidation of the policy in whole or in part or reduce the amount of any Claim subsequently made.

Signed for and on behalf of Stewart Title Limited

CEO, Stewart Title Limited

Authorised Signatory



POLICY SCHEDULE

Policy Number

155853

Policy Date

As referred to on the bordereau per Property

Policy Term

In Perpetuity from the Policy Date

Property

Each property or parcel of land which is noted on the bordereau

Limit of Indemnity

See Additional Policy Clause(s) section below

Premium

See Additional Policy Clause(s) section below

THE INSURED

The party purchasing the Property at the Policy Date and any bank, building society or other similar lending institution holding a mortgage or charge on the Property ('the Lender') whether as a result of the purchase or as the result of the owner of the Property remortgaging it to the Lender

THE INSURER

Stewart Title Limited - (Company Reg 2770166), 6 Henrietta Street, Covent Garden, London, WC2E 8PS

THE DEFECT

The Insured has been provided with a Regulated Drainage & Water Search ('the Search') by the Organisation which may contain an Adverse Entry which materially affects the market value of the Property.

INSURED USE

Continued use of the Property for residential or commercial uses as in existence at the Policy Date

EXCLUSION(S)

Any Claim arising from or relating to:

- i. any matter revealed in any other searches made available to the Insured or anyone acting on the Insured's behalf prior to the Policy Date
- ii. any matter otherwise known to the Insured or anyone acting on the Insured's behalf prior to the Policy Date
- iii. consequential loss
- iv. environmental or contamination matters (including but not limited to the Environmental Protection Act 1990
- v. any matter where the Insured or their legal advisors have not followed or acted upon the guidance notes provided in the Search

ADDITIONAL POLICY CLAUSE(S)

Definitions:

Adverse Entry - Any matter or matters which would have been disclosed in the Search and which were in existence on or before the Policy Date which adversely affect the market value of the Property but which were not disclosed in the Search due to:

- i. the absence in the Search of answers to questions 2.5.1, 2.7, 2.8, 2.9, 3.3, 3.4 and 4.5 and/or
- ii. incorrect information being given to the Organisation by the statutory authority or authorities responsible for maintaining the registers forming the subject matter of the Search and/or
- iii. incorrect information being given by the Organisation to the Insured in respect of Questions 2.1, 2.2, 2.4.1 and 3.1 where the Organisation has interpreted data obtained from the statutory authority or authorities responsible for maintaining the registers but that interpretation is incorrect due to the negligence of, or an error by, the Organisation.

Organisation - InfoTrack Ltd, trading as STL

Regulated Search - A search requested by or on behalf of the Insured in the course of a purchase or remortgage transaction relating to the Property in response to which the Organisation in accordance with the Council of Property Search Organisations' 'Search Code' has undertaken enquiries and provided a report upon which the Insured relies.

LIMIT OF INDEMNITY

(Up to £ per Property)

£ 2,000,000.00

PREMIUM

(£ inclusive of IPT)

£0.75



MEMORANDUM OF ENDORSEMENT for Seller Cover

Definitions

The definitions referred to below shall be read as being in addition to those given or where repeated for the purpose of the cover provided to the seller under this Policy as an alternative to those in the Policy the Seller of the Property who has requested and paid for the Regulated Search in order to enable the sale of the Property to the Buyer;

Seller:

the Seller of the Property who has requested and paid for the Regulated Search in order to enable the sale of the Property to the Buyer;

Buyer:

the person(s), corporate or incorporate body, named as Buyer in the exchanged contract for the purchase of the Property on whose behalf a Regulated Search has been undertaken or who relies upon a Regulated Search carried out on behalf of the seller of the Property by the Organisation and who has subsequently purchased the Property following receipt of the Regulated Search.

Completion Date:

the date upon which the sale of the Property to the Buyer completed

Offer Price:

the lower of (i) the price agreed between the Seller and the Buyer for the sale of the Property prior to the Completion Date (ii) the highest valuation of the Property obtained by the Seller from an estate agent prior to marketing the property with the estate agent.

Sale Price:

the price actually paid by the Buyer to the Seller for the Property on the Completion Date as detailed in the exchanged contract.

Seller Cover

The cover under this Policy will be extended to provide the additional cover referred to below namely that:

The Seller shall have cover starting on the Completion Date for the matters referred to in sub paragraph (ii) under the definition of Adverse Entry in this policy by revealing an Adverse Entry which should not have been revealed ('the Error') and which is the sole and direct cause of the Buyer renegotiating the Offer Price of the Property to the Sale Price and as a result of which renegotiation the Seller has suffered loss.

Exclusions

The Company shall be not liable to indemnify the Seller for any Error:

1. not disclosed in the Search
2. in respect of any matter of which the Seller or his legal representative had Knowledge as at the date that contracts are exchanged with the Buyer for the purchase of the Property.
3. Any Adverse Entry which arises after the Effective Date
4. The cover for the Seller shall not apply where the transaction is a remortgage or the Property is used for commercial purposes

Conditions

All conditions referred to in the Policy shall apply.



This policy document and the bordereau form the basis of the Insured's policy and the contract between the Insured and the Insurer. Please read the documents and keep them safe.

COVER

In the event there is an Adverse Entry affecting the Property on the Policy Date directly arising from the Search which materially affects the market value of the Property as detailed in the Defect ("Claim") the Insurer will indemnify the Insured against:

- a. The cost of remedying the Adverse Entry (including but not limited to the provision of a further indemnity policy to cover the specific risk(s) revealed by the Adverse Entry) and/or any sums paid pursuant to any voluntary settlement or compromise of a Claim with the prior written consent of the Insurer or any final order, decision, judgment or permanent injunction awarded against the Insured to free the Property from the Claim
- b. Reduction in the market value of the Property used in accordance with the Insured Use the market value being the average of the estimates of two independent Valuers of the market value of the Property as defined from time to time in the guidelines issued by the Royal Institute of Chartered Surveyors at the date of a final order, decision, judgment or permanent injunction awarded against the Insured, or where the Insurer otherwise accepts liability, and being the difference between the market value of the Property as at the Policy Date on the assumption the Adverse Entry is unenforceable and the market value of the Property as at the Policy Date to the extent the Adverse Entry is held to be enforceable
- c. Any shortfall in the amount required to discharge the outstanding debt under the mortgage or charge where the Insured is a mortgagee and exercises its rights under the mortgage or charge, or where the Insurer otherwise accepts liability
- d. Any damages or compensation (including costs and expenses) awarded against the Insured in any proceedings brought against the Insured or agreed in any voluntary settlement or compromise of a Claim with the prior written consent of the Insurer
- e. All other costs and expenses incurred by the Insured with the prior written consent of the Insurer including the costs of the Insurer in defending or settling the Claim on the Insured's behalf

GENERAL PROVISIONS

- a. Any act or omission by the Insured, or anyone acting on the Insured's behalf, which in whole or in part induces a Claim under the policy may prejudice the Insured's position and could invalidate the policy in whole or in part or reduce the amount of any Claim.
- b. The Insurers liability under this policy will not exceed the Limit of Indemnity (as increased by the Inflation Provision if applicable).
- c. This policy shall be governed by and construed in accordance with the law of England and Wales and is subject to the jurisdiction of the courts of England and Wales.
- d. The policy and any endorsement issued in respect of it are one contract and shall be read together.
- e. The Insured will not be entitled to abandon the Property to the Insurer.
- f. Your information may be used for the purposes of insurance administration by the Insurer, its associated companies, by reinsurers and your intermediary. It may be disclosed to regulatory bodies for the purposes of monitoring and/or enforcing the Insurer's compliance with any regulatory rules/codes.
- g. Your information may also be used for offering renewal, research and statistical purposes and crime prevention. It may be transferred to any country, including countries outside the European Economic Area for any of these purposes and for systems administration. Where this happens, we will ensure that anyone to whom we pass your information agrees to treat your information with the same level of protection as if we were dealing with it.
- h. If you give us information about another person, in doing so you confirm that they have given you permission to provide it to us to be able to process their personal data (including any sensitive personal data) and also that you have told them who we are and what we will use their data for, as set out in this notice.
- i. In the case of personal data, with limited exceptions, and on payment of the appropriate fee, you have the right to access and if necessary rectify information held about you.

NON-INVALIDATION

The interest in this policy of any Insured will not be invalidated by a breach of the policy terms or conditions by any other party unless:

- a. Such party acted on the Insured's behalf or with the Insured's knowledge and consent
- b. Where the Insured is a successor in title, they had knowledge of a breach of the policy terms or conditions or of previous non-disclosure or misrepresentation to the Insurer.

IMPORTANT CONDITIONS

In respect of each Property:

- a. In deciding to accept this policy in exchange for the Premium and in setting the terms and premium, the Insurer has relied on the assumptions made being correct and any information given by the Insured (or anyone acting on the Insured's behalf). The Insured must ensure that, when answering any questions asked by the Insurer, any information provided is accurate and complete and the Insurer is informed of any assumptions which cannot be met.
- b. If the Insured deliberately or recklessly provides the Insurer with false or misleading information, the Insurer may treat this policy as if it never existed and decline all claims.
- c. If the Insured provides the Insurer with false or misleading information carelessly, the Insurer may:
 - a. treat this policy as if it had never existed, and refuse to pay all claims and return the premium paid. However, the Insurer may only do so if it would not otherwise have provided the Insured with insurance cover at all;
 - b. amend the terms of this insurance, and apply the amended terms as if they were already in place, if a claim has been adversely affected by the Insured's carelessness;
 - c. reduce the amount the Insurer will pay on a claim in the proportion the premium the Insured has paid bears to the premium the Insurer would have charged for the policy; or
 - d. take a similar proportionate action.The Insurer, or anyone acting on the Insurer's behalf, will write to the Insured if the Insurer intends to treat this policy as if it had never existed, or amend the terms of the policy.
- d. If the Insured becomes aware that the information given to the Insurer is inaccurate, the Insured must inform the Insurer as soon as practicable.
- e. The Insured (or anyone acting on the Insured's behalf) shall not at any time disclose the existence of this policy to any third party other than bona fide prospective purchasers, their lenders, lessees and respective legal advisers without the Insurers written consent
- f. The Insured shall not discuss the Defect with any party without the Insurer's written consent, who, it is reasonable to believe can as a result of the discussion make a Claim.
- g. A bordereau is provided to the Insurer by the Policyholder in Excel format setting out the address of the Property, the Limit of Indemnity (being the purchase price of the Property) and the Policy Date (being the date of exchange of contracts for the purchase of the Property by the Insured) and that the bordereau is sent to the Insurer at the Insurer's Address within 14 days of the month end following the Policy Date and payment for all properties listed on the bordereau paid either by cheque payable to Stewart Title Limited or by BACS to HSBC Bank Plc, 16 King Street, Covent Garden, London WC2E 8JF Account Name: Stewart Title Premium Collection Account, Sort Code 40-04-09, Account Number: 32024225 Reference:



In respect of Conditions 5, 6 and 7 above where the Insured fails to comply with these conditions the Insurer's liability under this policy may be limited to the extent the Insurer is compromised by any breach of these conditions

COMPLAINTS PROCEDURE

Any complaint should be raised in the first instance with our General Counsel by

- Writing to the General Counsel at the Insurer's Address
- Telephoning 0207 010 7820

Details of our complaints handling procedure are available by contacting our General Counsel.

If we are unable to resolve your complaint to your satisfaction, you may have the right to refer your complaint to the Financial Ombudsman Service at Exchange Tower, London E14 9SR. The Financial Ombudsman Service website is www.financial-ombudsman.org.uk

The existence, and your use of, this complaints process is without prejudice to your other rights under this policy and your rights in law.

RIGHT TO CANCEL POLICY

This Policy can be cancelled by contacting us within 14 days of the policy date, provided all interested parties (such as lenders holding a mortgage or charge on the Property) consent to cancellation. If you wish to cancel this policy, please write (quoting your policy number) to 'The Underwriting Manager' at the Insurer's Address.

We may at our discretion charge you for the time that you have been on cover including Insurance Premium Tax. Any refund of premium will be made to the party who paid the premium.

CLAIMS CONDITIONS

On becoming aware of any potential or actual Claim, the Insured will:

- provide written notice and details to the Insurer at the Insurer's Address immediately of all known facts including all communications, correspondence and all court documents.
- not admit any liability whatsoever or take steps to compromise or settle the Claim, without the written consent of the Insurer.
- provide all information and assistance that the Insurer and/or any party professional or otherwise acting on the Insurer's behalf require at the Insured's own expense doing everything reasonably practicable with the Insurer's prior written consent to minimise any loss.

The Insured will not make any

- admission, promise of payment or indemnity
- application to a court, Upper Tribunal (Land Chamber) or the Land Registry without the written consent of the Insurer

DEALING WITH THE CLAIM

- In dealing with the Claim the Insurer will at its discretion and cost be entitled to (whether or not the Insurer is liable under this policy):
 - take or defend proceedings in any court or tribunal in the name of the Insured in any proceedings including the right to abandon or submit to judgment
 - exercise, in the name of the Insured, any rights or remedies available to the Insured in any proceedings including the right to abandon or submit to judgment
 - compromise, settle or compound the Claim and deal in such manner as it thinks fit
 - pay at any time to the Insured the amount of the Limit of Indemnity (as increased by the Inflation Provision if applicable) or any lesser amount for which the Claim can be settled and then relinquish control of and have no further involvement with the Claim.
- The Insurer shall be under no obligation to pay the proceeds of any Claim paid under this Policy to any party other than the Insured and that the proceeds of any Claim shall be incapable of assignment.
- If, at the time of the Claim, there is other insurance (whether incepted by the Insured or any other party) under which the Insured may be entitled to make a Claim, either wholly or partly in respect of the same interest or risk covered by this policy, the Insurer will not be liable to pay or contribute more than their rateable proportion of the Claim.
- If the Insured shall make any Claim knowing the same to be false or fraudulent, as regards amount or otherwise, this policy shall become void and the Claim shall be forfeited.
- The Insurer will be entitled to all rights and defences it may have in respect of a Claim notified by any Insured against any successor to that Insured.
- Where the Insurer and the Insured cannot agree to the amount to be paid under this policy the matter shall be referred to an arbitrator to be appointed by the parties (or in default of agreement, in accordance with the law in force at the time). The making of an award by the arbitrator shall be a condition precedent to any right of action against the Insurer. The Insured will afford to the Insurer every reasonable assistance in this respect.
- If the Insurer agrees or is obliged to make any payment to or on behalf of an Insured because of the risk insured by this policy the Insurer will immediately be subrogated to any rights which the Insured may have in relation to that risk.

THE FINANCIAL SERVICES COMPENSATION SCHEME (FSCS)

We are covered by the FSCS. You may be entitled to compensation from the scheme if we cannot meet our obligations. This will depend on the type of business and the circumstances of the Claim.

Further information about the compensation scheme arrangements is available from the FSCS who can be contacted at Financial Services Compensation Scheme, 10th Floor, Beaufort House, 15 St Botolph Street, EC3A 7QU. The FSCS website may be viewed at www.fscs.org.uk

Stewart Title Limited is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. Registered in England and Wales No: 2770166. Registered office address: 6 Henrietta Street, London, UK, WC2E 8PS.



Important Consumer Protection Information

This search has been produced by InfoTrack Ltd, trading as STL, Orion Gate, 1st Floor, Guildford Road, Woking, Surrey, GU22 7NJ (tel: 01483 715355, fax: 01483 221854, email: helpdesk@infotrack.co.uk or visit www.infotrack.co.uk) which is registered with the Property Codes Compliance Board (PCCB) as a subscriber to the Search Code. The PCCB independently monitors how registered search firms maintain compliance with the Code.

The Search Code

- provides protection for homebuyers, sellers, estate agents, conveyancers and mortgage lenders who rely on the information included in property search reports undertaken by subscribers on residential and commercial property within the UK
- sets out minimum standards which firms compiling and selling search reports have to meet
- promotes the best practice and quality standards within the industry for the benefit of consumers and property professionals
- enables consumers and property professionals to have confidence in firms which subscribe to the code, their products and services. By giving you this information, the search firm is confirming that they keep to the principles of the Code. This provides important protection for you

The Code's core principles

Firms which subscribe to the Search Code will:

- display the Code logo prominently on their search reports
- act with integrity and carry out work with due skill, care and diligence
- at all times maintain adequate and appropriate insurance to protect consumers
- conduct business in an honest, fair and professional manner
- handle complaints speedily and fairly
- ensure that all search services comply with the law, registration rules and standards
- monitor their compliance with the Code

Complaints

If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award compensation of up to £5,000 to you if he finds that you have suffered actual financial loss and/or aggravation, distress or inconvenience as a result of your search provider failing to keep to the Code.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPOs or to the PCCB.

TPOs Contact Details:

The Property Ombudsman scheme
Milford House
43-55 Milford Street
Salisbury
Wiltshire
SP1 2BP

Tel: 01722 333306 / Fax: 01722 332296

Web: www.tpos.co.uk / Email: admin@tpos.co.uk

You can get more information about the PCCB from www.propertycodes.org.uk

Please ask your search provider if you would like a copy of the Search Code.



STL Internal Complaints Procedure

STL has a formal internal complaints procedure for handling complaints speedily and fairly. If you wish to make a complaint, we will:

1. acknowledge your complaint within 5 working days of receipt
2. normally deal with it fully and provide a final response, in writing, within 20 working days of receipt
3. keep you informed by letter, telephone or email, as you prefer, if we need more time
4. provide a final response, in writing, at the latest within 40 working days of receipt
5. liaise, at your request, with anyone acting formally on your behalf

Complaints should be sent to: Julia Nightingale, Compliance Officer, InfoTrack Ltd, trading as STL, Orion Gate, 1st Floor, Guildford Road, Woking, Surrey GU22 7NJ / Tel: 0207 186 8090 / Email: helpdesk@infotrack.co.uk / www.infotrack.co.uk

If you are not satisfied with our final response, or if we exceed the above timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs) - Tel: 01722 333306 / Email: admin@tpos.co.uk. We will co-operate with TPOs during an investigation and comply with any decision the Ombudsman makes.

Revised 24 September 2018



STL Terms and Conditions

1 Definitions

In these Terms the following words shall have the following meanings:

- 1.1 "Client" means the seller, buyer, lender or lessee (or potential seller, buyer, lender or lessee) in respect of the Property who is the intended recipient of the Report.
- 1.2 "Code" means the Code of Practice for Search Compilers and Retailers as updated from time to time.
- 1.3 "Company" means a company registered at Companies House in respect of which STL has been instructed to provide a Service.
- 1.4 "Consumer" means any person acting for purposes other than their trade, business or profession.
- 1.5 "Intellectual Property Rights" means copyright, patent, design right (registered or unregistered), service or trade mark (registered or unregistered), database right, or other data right, moral right or know how or any other intellectual property right.
- 1.6 "Literature" means STL's brochures, price lists and advertisements in any type of media, including the content of the Website.
- 1.7 "Order" means the request for Services by You.
- 1.8 "Property" means an address or location for which STL is engaged to provide a Service.
- 1.9 "Report" means the report prepared by STL in respect of the Property or the Order.
- 1.10 "Service(s)" means the supply of services by STL to You including but not limited to property searches, reports and photographs, company searches, trade marks and domain name searches and other services from time to time and includes our instructions to a Supplier, on your behalf and the dissemination of the information subsequently provided by the Suppliers.
- 1.11 "Supplier" means any organisation or third party who provides data or information of any form to STL for the purposes of providing the Services.
- 1.12 "Terms" means these terms and conditions of business.
- 1.13 "VAT" means value added tax under the Value Added Tax Act 1994 and any similar replacement or additional tax.
- 1.14 "Website" means our website located at www.stlgroup.co.uk
- 1.15 "We", "Us", "Our" and "STL" are references to InfoTrack Limited, trading as STL, a company incorporated in England and Wales with registered number 09474590 and whose registered office is situated at 10 John Street, London, United Kingdom, WC1N 2EB. VAT number GB 228530612.
- 1.16 "You" and "Your" are references to the individual, company, partnership or organisation who accesses the Website or places an Order.

2 Agreement

- 2.1 The agreement between You and STL shall come into existence when STL accepts your completed Order by either sending you written confirmation or starting to provide you with the relevant Services ("Agreement"). Please read and check your Order before it is submitted so that any errors can be identified and corrected.
- 2.2 These Terms may be varied from time to time. The Terms in force at the time of the Agreement, in conjunction with any relevant Supplier terms and conditions (where STL is placing orders for searches as Your agent), shall govern the Agreement to the exclusion of all other terms and conditions. You should print a copy of these Terms for future reference.
- 2.3 By submitting an Order, you shall be deemed to have accepted these Terms and You agree to be bound by these Terms when You place any Order.
- 2.4 These Terms together with the Literature and Order comprise the whole agreement relating to the supply of the Services to You by STL.

- 2.5 If You are not a Consumer You acknowledge that You have not relied upon any representations save insofar as the same have been expressly incorporated in these Terms and You agree that you shall have no remedy in respect of any misrepresentation (other than fraudulent misrepresentation) which has not become a term of these Terms.

- 2.6 If You are a Consumer then, while We accept responsibility for statements and representations made by Our duly authorised agents, please ensure You ask for any variations from these Terms to be confirmed in writing.

3 Services

- 3.1 STL shall use reasonable care and skill in providing the Services to You and shall use only established and trusted suppliers where obtaining information or data from third parties in accordance with the Code.
- 3.2 We reserve the right to make any changes to the Services described in our Literature to conform with any applicable statutory requirements or any non-material changes which we reasonably deem appropriate in our sole discretion.
- 3.3 Our Services are provided solely for Your use, or the use of Your Clients on whose behalf You have commissioned the Services, and shall not be used or relied upon by any other party, without Our written consent.
- 3.4 You hereby agree that We will start performing the Services as soon as possible, following the formation of the Agreement, which is likely to be before the end of the fourteen working day period set out in clause 5.3.

4 Price and Payment

- 4.1 The price payable for the Services shall be in pounds sterling inclusive of VAT as set out in the Literature or Order, as applicable.
- 4.2 Payment is due in full from You within 30 days of the date of Our invoice (or as otherwise contracted). We will invoice You following the provision of the Service(s) or as otherwise notified to You at the point of order or as set out in the Literature.
- 4.3 STL reserves the right to amend its prices from time to time and the Services will be charged at the price applicable at the date on which an Order is submitted.
- 4.4 If You fail to pay Our invoice on or before the due date, STL may charge You interest on the late payment at the prevailing statutory rate pursuant to the Late Payment of Commercial Debts (Interest) Act 1998 until the outstanding payment is made in full.

5 Cancellation of Services

This Term 5 only applies if you are a Consumer.

- 5.1 If you are a Consumer, you have a legal right to cancel the Agreement under the Consumer Contracts (Information, Cancellation and Additional Charges) Regulations 2013, during the period set out in Term 5.3.
- 5.2 This cancellation right does not apply:
 - 5.2.1 in the case of goods made to Your specifications, where these are personalised goods or by reason of their nature cannot be returned; or
 - 5.2.2 where We have started work on the Services with Your agreement (given in Term 3.4).
- 5.3 As a Consumer Your right to cancel the Agreement starts on the date the Agreement is formed. You have fourteen working days to cancel the Agreement. If you cancel the Agreement within this period, and the exceptions set out in Term 5.2 do not apply, then You will receive a full refund of any price paid by You. The refund will be processed as soon as possible, and in any case within 30 days of the day on which you gave us notice of cancellation. You will not be liable for any further payment to us in respect of the Agreement.
- 5.4 To cancel the Agreement You must contact Us in writing at our registered office address by sending an email to info@stlgroup.co.uk



- 5.5 Following cancellation of the Agreement (save for cancellation in accordance with Term 5.3) You will remain liable for any costs, expenses and disbursements incurred by Us prior to receiving written notice of cancellation. Such costs, expenses and disbursements shall be invoiced and payable in accordance with Term 4.2.
- 6 Termination**
- 6.1 STL may suspend or terminate any agreement with You without any liability to You with immediate effect if at any time:
- 6.1.1 You fail to make any payment due in accordance with Term 4;
- 6.1.2 If You repeatedly breach or commit or cause to be committed a material breach of these Terms; or
- 6.1.3 You commit a breach and You fail to remedy the breach within 7 days of receipt of a written notice to do so.
- 6.2 If an Agreement is terminated under this Term 6 and You have made an advance payment We will refund You a reasonable proportion of the balance as determined exclusively by Us having regard to the value of Services already provided to You.
- 7 Events Beyond Our Control**
- 7.1 We reserve the right without notice or liability to You, to defer the date of performance (by a period equivalent to the period during which the Services could not be performed) or to cancel the provision of the Services or reduce the volume of the Services ordered by You if we are prevented from or delayed in the carrying on of Our business due to circumstances beyond Our reasonable control provided that, if the event in question continues for a continuous period in excess of 60 days, You shall be entitled to give notice in writing to us to terminate the Order.
- 8 Warranties and Limitation of Liability**
- 8.1 Subject to Term 9 and Term 10 (as applicable), We provide warranties and accept liability only to the extent stated in this Term 8.
- 8.2 We do not exclude or restrict our liability for death or personal injury caused by our own negligence or any other liability the exclusion of which is expressly prohibited by law.
- 8.3 Unless otherwise indicated on the front page of the Report, We confirm that any individuals within Our business who conducted any searches has not knowingly had any personal or business relationship with any individual involved in the sale of or dealings with the Property.
- 8.4 In providing the Services You acknowledge and accept that:-
- 8.4.1 STL's only obligation is to exercise reasonable care and skill in providing the Services in accordance with the Code.
- 8.4.2 The Services do not include any information relating to the value or worth of the Property or the Company.
- 8.4.3 STL cannot warrant or guarantee that the Website or any website linked to or from the Website will be uninterrupted or error free or free of viruses or other harmful components and furthermore STL cannot warrant the performance of any linked internet service not operated by STL. Accordingly STL shall not be liable for any damage or loss whatsoever caused: by any virus, including damage to Your computer equipment, software, data or other property resulting from Your access to, use of or browsing of the Website; or as a result of downloading any material, data, text, images, video or audio from the Website; or by the contents of or Your access to, any website linked to the Website; or for inaccuracies or typographical errors of information or on the Website.
- 8.4.4 STL shall use reasonable endeavours to provide the Services within the timescale set out in the Literature.
- 8.4.5 Any services other than our Services, which are advertised in the Literature are for information only, and We are not responsible for any such services which You may use as a result of our recommendation or otherwise. Any such third party services may be subject to the terms and conditions of the relevant third party service provider.
- 8.5 In connection with the Report You undertake to make a reasonable inspection of any results set out therein to satisfy Yourself that there are no defects or failures. In the event that there is a material defect You will notify Us in writing of such defect as soon as possible after its discovery.
- 8.6 Any claim relating to data or information obtained from a Supplier shall in the first instance be made against the Supplier (with such assistance from STL as may reasonably be required) and only if such a claim cannot be made against the Supplier will You make a claim against STL.
- 9 Our Liability if you are a Business**
This Term 9 only applies if you are not contracting as a Consumer
- 9.1 We only supply the Reports for use by You and Your Clients, and You agree not to use the Reports for any re-sale purposes unless You have obtained Our prior written consent.
- 9.2 Nothing in these Terms limits or excludes Our liability for:
- 9.2.1 Death or personal injury caused by Our negligence;
- 9.2.2 Fraud or fraudulent misrepresentation;
- 9.2.3 Any loss or damage sustained as a direct consequence of Our negligence;
- 9.2.4 Breach of the terms implied by section 12 of the Sale of Goods Act 1979 (title and quiet possession); or
- 9.2.5 Defective products under the Consumer Protection Act 1987.
- 9.3 Subject to Term 9.2, We will under no circumstances whatever be liable to You (or any other party entitled to rely on the Report(s)), whether in contract, tort (including negligence), breach of statutory duty, or otherwise, arising under or in connection with the Agreement for:
- 9.3.1 Any loss of profits, sales, business or revenue;
- 9.3.2 Loss or corruption of data, information or software;
- 9.3.3 Loss of business opportunity;
- 9.3.4 Loss of anticipated savings;
- 9.3.5 Loss of goodwill; or
- 9.3.6 Any indirect or consequential loss.
- 9.4 Subject to Term 9.2 and Term 9.3, Our total liability to You in respect of all other losses arising under or in connection with the Contract, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, shall in no circumstances exceed £10 million.
- 9.5 Except as expressly stated in these Terms, We do not give any representation, warranties or undertakings in relation to the Reports. Any representation, condition or warranty which might be implied or incorporated into these Terms by statute, common law or otherwise is excluded to the fullest extent permitted by law. In particular, We will not be responsible for ensuring that the Reports are suitable for Your purposes.
- 10 Our liability if you are a Consumer**
This Term 10 only applies if you are a Consumer.
- 10.1 If We fail to comply with these Terms, We are responsible for loss or damage You suffer that is a foreseeable result of Our breach of these Terms or Our negligence, but We are not responsible for any loss or damage that is not foreseeable. Loss or damage is foreseeable if they were an obvious consequence of Our breach or if they were contemplated by You and us at the time We entered into the Agreement.
- 10.2 We only supply the Reports for private use. You agree not to use the Reports for any commercial, business or re-sale purposes, and We have no liability to You for any loss of profit, loss of business, business interruption, or loss of business opportunity.
- 10.3 We do not in any way exclude or limit Our liability for:
- 10.3.1 Death or personal injury caused by Our negligence;
- 10.3.2 Fraud and fraudulent misrepresentation;
- 10.3.3 Any breach of the terms implied by section 12 of the Sale of Goods Act 1979 (title and quiet possession);



10.3.4 Any breach of the terms implied by sections 13 to 15 of the Sale of Goods Act 1979 (description, satisfactory quality, fitness for purpose and samples); and

10.3.5 Defective products under the Consumer Protection Act 1987.

10.4 We have obtained insurance cover in respect of Our own liability for individual claims not exceeding £10 million per claim. Our liability is therefore limited to £10 million in respect of any single claim, event, or series of related claims or events and You are responsible for making your own arrangements for the insurance of any excess loss.

11 Intellectual Property Rights

11.1 You acknowledge that all Intellectual Property Rights in the Services are and shall remain owned by either STL or our Suppliers and nothing in these Terms purports to transfer, assign or grant any rights to You in respect of the Intellectual Property Rights.

11.2 You agree to indemnify Us against all liabilities, costs, expenses, damages and losses (including but not limited to any direct, indirect or consequential losses and all interest, penalties and legal costs (calculated on a full indemnity basis) and all other professional costs and expenses) arising out of or in connection with any claim for actual or alleged infringement of a third party's Intellectual Property Rights as a result of You including an Ordnance Survey plan within the Order.

12 Insurance

12.1 Our insurers are QBE Insurance (Europe) Ltd whose address is Plantation Place, 30 Fenchurch Street, London, EC3M 3BD. The level of cover provided by them for our Professional Indemnity Insurance is £10 million.

12.2 Our Professional Indemnity Insurance includes cover for errors and omissions in local authority and water company data and records used to compile our search reports.

12.3 Should we cease to trade for any reason, prior to that event, we shall execute run-off insurance cover under our Professional Indemnity Insurance for our past search products and services.

13 Complaints

13.1 Full details of Our Complaints Procedure are set out on Our Website. We will deal with any complaints made by You in accordance with the Complaints Procedure.

13.2 As per Our Complaints Procedure, should you not be satisfied with our final response or we have exceeded the response timescales pursuant to Our Complaints Procedure, you may refer your complaint to The Property Ombudsman Scheme. The Property Ombudsman Scheme's website is www.tpos.co.uk and email address is admin@tpos.co.uk.

13.3 We will co-operate fully with The Property Ombudsman Scheme during an investigation and comply with his final decision.

14 General

14.1 You shall not be entitled to assign the Agreement or any part of it without Our prior written consent.

14.2 We may assign the Agreement or any part of it to any person, firm or company provided that such assignment shall not materially affect Your rights under the Agreement.

14.3 The parties to these Terms do not intend that any term of Our Agreement shall be enforceable by virtue of the Contracts (Rights of Third Parties) Act 1999 by any person that is not a party to these Terms or a permitted assignee.

14.4 Failure or delay by Us in enforcing or partially enforcing any provision of the Agreement will not be construed as a waiver of any of Our rights under the Agreement.

14.5 Any waiver by Us of any breach of, or any default under, any provision of the Agreement by You will not be deemed a waiver of any subsequent breach or default and will in no way affect the other terms of the Agreement.

14.6 If any provision or part of a provision is held to be invalid or unenforceable by any court or other body of competent jurisdiction, that provision or part of that provision shall be deemed severable and the other provisions or the remainder of the relevant provision will continue in full force and effect.

14.7 Unless otherwise stated in these Terms, all notices from You to STL or vice versa must be in writing and sent to STL's registered office address as stipulated in Term 1.15 (or as updated from time to time) or Your address as stipulated in the Order.

14.8 In providing the Services and Reports We will comply with the Code.

14.9 Any personal information which you provide to us will be held in accordance with the Data Protection Act 1998 and other applicable regulations and only used in accordance with Our Privacy Policy (details of which are set out on Our Website).

14.10 The Agreement shall be governed by and construed in accordance with English law and shall be subject to the non-exclusive jurisdiction of the Courts of England and Wales. However, if You are a resident of Northern Ireland you may also bring proceedings in Northern Ireland, and if you are a resident of Scotland you may also bring proceedings in Scotland.

Revised 01 July 2018