



Flood Risk Assessment and Drainage Strategy In support of Agricultural Development at

Danefold Farm
Littleworth Lane
Partridge Green
West Sussex
RH18 8NA

Luke Shaw
May 2025
Revision [B]
Job No: 6126



Flood Risk Assessment & Drainage Strategy At Danefold Farm, Littleworth Lane West Sussex, RH13 8NA

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Flood Risk Assessment & Drainage Strategy
At Danefold Farm, Littleworth Lane
West Sussex, RH13 8NA

Amendments

Revision	Date	Description
0	28 th May 2025	Planning Issue
A	15 th September 2025	Updated CV Value for calculations and increase in pipe size from 225mm to 300mm to prevent the flooding in the 1 in 100 year + 45% climate change, 15-minute event.
B	22 nd October 2025	Surface water flood risk section updated

References

Reference	Title
A	CIRIA Publication 753 – The SUDS Manual (2015)
B	Sewers for Adoption 7 th Edition (Wrc 2012)
C	Part H of the Building Regulations (2015)
D	The Soakaway Design Guide (KCC 2000)
E	Water. People. Places. A guide for master planning sustainable drainage in developments (2013)
F	Planning Practice Guidance (2016)



Flood Risk Assessment & Drainage Strategy At Danefold Farm, Littleworth Lane West Sussex, RH13 8NA

Introduction

This Flood Risk Assessment and Drainage Strategy has been prepared in support of a planning application for the relocation of an existing farmyard manure store, the construction of one new silage clamp, and the development of a new slurry lagoon.

This document aims to identify any areas at risk of flooding and provide appropriate mitigation measures where necessary. It also outlines the proposed surface water drainage methods. A Location Plan and the layout of the proposed scheme are included in the appendices.

Due to the area of development being over 1 Hectare, the site is subject to a formal Flood Risk Assessment (FRA), which is to be submitted and approved by the Local Planning Authority in consultation with the Statutory Consultees.

Development Description and Location

The development proposal is for the relocation of an existing farmyard manure store, along with the construction of one new silage clamp and a new slurry lagoon.

The development works are situated on Danefold Farm, Littleworth Lane, which is located within the planning district of Horsham.

The location of the proposed site is at grid reference 518830, 122093 as shown in the location plans in the appendices.

Development Classification

The flood risk vulnerability classification for this type of development in this location is considered as Less Vulnerable which is defined in Table 2 of the Technical Guidance to the National Planning Policy Framework.

Less Vulnerable - *Land and buildings used for agriculture and forestry.*

Sequential Test

As set out in the National Planning Policy Framework, the aim of the Sequential Test is to direct new development to areas with the lowest probability of flooding. The starting point to the Sequential Test is the Flood Zones, which can be seen in the appendices. The map key clearly shows Zones 2 and 3, whereas Zone 1 is the remainder of the land not hatched.

These flood zones refer to the probability of river and coastal flooding, ignoring the presence of any existing flood defences.

The Strategic Flood Risk Assessments and Surface Water Management Plans for Horsham District Council, refines the information on the probability of flooding and also takes into account other sources of flooding which have been assessed in more detail further into this flood risk assessment.

The proposed development is situated within Zone 1 and is classified as Less Vulnerable in accordance with Table 2 of the Technical Guidance to the National Planning Policy Framework.

Following an assessment of Table 3 of the Technical Guidance to the National Planning Policy Framework, it states that development in this situation, it is Appropriate Development, as seen in the table below:

Table 3: Flood risk vulnerability and flood zone 'compatibility'

Flood risk vulnerability classification (see table 2)		Essential infrastructure	Water compatible	Highly vulnerable	More vulnerable	Less vulnerable
Flood zone (see table 1)	Zone 1	✓	✓	✓	✓	✓
	Zone 2	✓	✓	Exception Test required	✓	✓
	Zone 3a	Exception Test required	✓	✗	Exception Test required	✓
	Zone 3b functional floodplain	Exception Test required	✓	✗	✗	✗

Key: ✓ Development is appropriate.
✗ Development should not be permitted.



Flood Risk Assessment & Drainage Strategy At Danefold Farm, Littleworth Lane West Sussex, RH13 8NA

If the application of the Sequential Test is not possible to comply with, a site-specific flood risk assessment must demonstrate that the development will be safe for its lifetime taking account of the vulnerability of its users, without increasing flood risk elsewhere, and, where possible, will reduce flood risk overall.

Given that the proposed development site is located entirely within Flood Zone 1, which is classified as having the lowest probability of flooding, the application is automatically satisfies the Sequential Test.

Definition of the Flood Hazard

For the preparation of this Flood Risk Assessment it is necessary to consider all of the potential sources of flooding and how this may affect the site. A checklist has been provided below to help identify these areas which can be discussed in greater detail in this section.

Possible Source of Flooding	Applicable to this Site?
Fluvial Flooding from nearby rivers or streams	☒
Coastal Flooding	☒
Surface Water Runoff from the Site, Adjacent or Nearby Land	☒
Flooding from Surface Water Sewers	☒
Flooding from Foul Water Sewers	☒
Flooding from Reservoirs	☒
Flooding from Groundwater	☒
Flooding from other Sources	☒

Flood maps for planning have been checked which show the development site to be in Flood Zone 1. There is therefore a very low probability of flooding from nearby rivers or the sea, less than 0.1% (1 in 1000 year) annually.



Flood Risk Assessment & Drainage Strategy At Danefold Farm, Littleworth Lane West Sussex, RH13 8NA

Surface water flooding maps have been checked (also contained in the appendices) which shows a low chance of Surface water flooding, which travels overland from the track to the East.

Following a review of the surface water flood maps in conjunction with the site's topographical survey, it is evident that surface water overland flow paths follows a natural low point in the landscape. The proposed slurry pit is located outside of this flow path and, as such, will not contribute to an increase in flood risk either during construction or upon completion.

When checking the flood maps for planning in relation to reservoir flooding, there are no risks to this proposed development.

Local geotechnical mapping has confirmed that the site is underlain by the Weald Clay Formation. Borehole records indicate that groundwater was encountered at a depth of approximately 35 metres below ground level. Based on this information, groundwater flooding is not considered to pose a risk to the development site.

There are no other sources on or off site that are thought to be a flood risk at this site.

Probability

The proposed development is situated within Zone 1 which can be seen in the Flood Map for Planning, contained in the appendices.

The District Council for the area have prepared a Strategic Flood Risk Assessment which refines the information provided by the Environment Agency and gives an overview of the flood risk in the district.

Based on the Information provided in both the Flood Maps for Planning and the Strategic Flood Risk Assessment, the probability of a flood event may be taken as Zone 1 – Low Probability, as it has less than a 1 in 1000 annual probability or greater of river flooding, ignoring the presence of existing flood defences.



Flood Risk Assessment & Drainage Strategy At Danefold Farm, Littleworth Lane West Sussex, RH13 8NA

Climate Change

More recent guidelines have been published by the Environment Agency for new flood risk assessments, which suggests regional climate changes and appropriate freeboard levels for new residential dwellings. This is for an agricultural application, so climate change allowances has only been applied to rainfall calculations in this instance.

Development Proposals

The rainfall on the impermeable areas of the silage clamp and manure storage will be collected via heavy duty linear drains and will direct the water through a series of catchpits before discharging to the slurry lagoon. The slurry lagoon will also act as an impermeable area, thus generating it's own surface water accumulation. This will be an enclosed system and not connected to any on or off-site discharge points. The dirty water will periodically be drained from the underground wastewater storage tank and used for spreading over the fields, in line with DEFRA Guidance. Water levels in the slurry lagoon will be able to drain to the dirty water overflow tank where it will be collected. This will need regular monitoring to ensure storm capacity is not being compromised, therefore, a high-level alarm is proposed for the underground storage tank, to alert the farm management team that the tank needs to be emptied ready for the next storm. In any case, the tank should have a regularly scheduled check and also checked after any significant rainfall event.

Flood Risk Management Measures

In order to effectively manage any site-specific flood risk, it may be necessary to introduce mitigation measures to help eliminate or reduce the impact of potential flooding. There are various methods and systems available to protect any new buildings from flooding. However, as this development is for agricultural development and consists of one new silage clamp and slurry lagoon, specific flood risk management measures are not required, other than following the WSCC guidance for surface water management.



Flood Risk Assessment & Drainage Strategy At Danefold Farm, Littleworth Lane West Sussex, RH13 8NA

Off Site Impacts

There are no foreseen adverse residual impacts to neighbouring properties or the surrounding area in relation to flood risk as a result of the proposed development scheme.

Residual Risks

There are no additional residual flood risks to the property following the implementation of the new scheme.

Drainage Strategy

This Drainage Strategy has been developed in support of a planning application for the relocation of an existing farmyard manure store, the construction of a new silage clamp, and the construction of a new slurry lagoon.

The aim of the Drainage Strategy is to incorporate and adopt Best Management Practices (BMP's) for Sustainable Urban Drainage Systems (SUD's) (where appropriate) in accordance with Site Specific Technical Reports and Published Documents referenced in Page (ii). This document also aims to identify the methods of drainage available for the Surface Water Drainage.

A layout of the proposed scheme can be found in the appendices of this document.

Development Description and Location

The development proposals are for the relocation of an existing farmyard manure store, the construction of one new silage clamp, and a new slurry lagoon.

The development works are situated on Danefold Farm, Littleworth Lane, which is located within the planning district of Horsham.

The location of the proposed site is at grid reference 518830, 122093 as shown in the location plans in the appendices.



Flood Risk Assessment & Drainage Strategy At Danefold Farm, Littleworth Lane West Sussex, RH13 8NA

Existing Drainage

The site is currently undeveloped farmland and is therefore assumed to have no existing drainage infrastructure. This will need to be confirmed on-site prior to construction.

Site Geology

The site is underlain by the Weald Clay Formation which is typically described by the British Geological Survey as Dark grey thinly-bedded mudstones (shales) and mudstones with subordinate siltstones, fine- to medium-grained sandstones, including calcareous sandstone, shelly limestones and clay ironstones.

Typically, Weald Clay is deemed as unsuitable for infiltration, therefore, no soakage testing has been undertaken at this site for the benefit of clean roof water. Any “dirty water” associated with the proposals, being the runoff from the silage clamp and manure storage must be stored and disposed of in line with DEFRA Farming guidance publications.

Ground Water

Local geotechnical mapping has been checked, which confirms the site is underlain by Weald Clay. The nearby surrounding borehole records have been checked, which do not indicate that the groundwater is close to the surface, therefore, the site is unlikely be affected by groundwater emergence.

Topography

The land at the application site slopes down from the Southeast to Northwest. Levels on the Southeastern boundary are around 37.500mAOD, with levels on the Northwest boundary around 29.500mAOD.



Flood Risk Assessment & Drainage Strategy At Danefold Farm, Littleworth Lane West Sussex, RH13 8NA

Design Objective

The objective of the design will be to;

- a) Retain the quantity of surface water runoff leaving the impermeable areas for all storms, up to and including the 1 in 100 year return period + 45% climate change until it can be disposed of in line with DEFRA guidance.

Development Drainage Proposals

Surface Water Drainage

The rainfall on the impermeable areas of the silage clamp and manure storage will be collected via heavy duty linear drains and will direct the water through a series of catchpits before discharging to the slurry lagoon. The slurry lagoon will also act as an impermeable area, thus generating its own surface water accumulation. This will be an enclosed system and not connected to any on or off-site discharge points. The dirty water will periodically be drained from the underground wastewater storage tank and used for spreading over the fields, in line with DEFRA Guidance. Water levels in the slurry lagoon will be able to drain to the dirty water overflow tank where it will be collected. This will need regular monitoring to ensure storm capacity is not being compromised, therefore, a high-level alarm is proposed for the underground storage tank, to alert the farm management team that the tank needs to be emptied ready for the next storm. In any case, the tank should have a regularly scheduled check and also checked after any significant rainfall event.

It is not intended that the proposed development drainage will be offered for adoption to any of the statutory authorities, however, the surface water calculations for the proposed development will be in accordance with the requirements set out in the Water, People, Places – A guide for master planning sustainable drainage into developments.

There is no infiltration proposed for this development as the water associated with the proposals must be stored and disposed of in line with DEFRA Farming guidance publications, therefore, no soakage testing has been undertaken at this site.



Flood Risk Assessment & Drainage Strategy At Danefold Farm, Littleworth Lane West Sussex, RH13 8NA

All surface water accumulation generated by the new proposals are directed down to the slurry lagoon and the simulated storm is entirely contained within the lagoon and will be allowed to be drained down in accordance with the farm management schedules and DEFRA guidance.

This design strategy caters for up to and including the 1 in 100 year return period + 45% climate change, whilst assessing the effects of a 1 in 2 year, 1 in 30 year, 1 in 100 year and with the uplift of 45% increase of the same return period in accordance with WSCC guidance.

All calculations have been undertaken with Causeway Flow Software using FEH Point Data integrated into the drainage model. These calculations and sections are contained within the appendices.

Foul Water Drainage

There are no specific domestic wastewater facilities associated with this application, therefore foul water drainage design does not need to be included in this document.

Residual Flood Risk

This development has been formally assessed against flood risk earlier in this report. This Drainage strategy takes the principles identified within the FRA, to incorporate them within the detailed design, focusing on reduction and mitigation of flood risk for both on and off site.

Surface Water Drainage systems have been designed to cater for and up to the 1 in 100-year return period, plus 45% climate change, retaining the surface water on site in accordance with LLFA requirements and Industry Guidance.



Flood Risk Assessment & Drainage Strategy At Danefold Farm, Littleworth Lane West Sussex, RH13 8NA

Conclusion

Roads & Sewers for Planning & Design Ltd (RSPD) have been requested to provide a Flood Risk Assessment and Drainage Strategy in support of a planning application for the relocation of an existing farmyard manure store, the construction of one new silage clamp, and a new slurry lagoon, located at Danefold Farm, Littleworth Lane, Partridge Green, West Sussex, RH13 8NA.

This document aims to identify any flood risk areas, offering suggested mitigation where appropriate and also outline the methods of drainage available for the Surface Water Drainage. A Location Plan and layout of the proposed scheme can be found in the appendices of this document.

Due to the area of development being over 1 Hectare, the site is subject to a formal Flood Risk Assessment (FRA), which is to be submitted and approved by the Local Planning Authority in consultation with the Statutory Consultees.

The flood risk vulnerability classification for this type of development in this location is considered as Less Vulnerable which is defined in Table 2 of the Technical Guidance to the National Planning Policy Framework.

Based on the Information provided in both the Flood Maps for Planning and the Strategic Flood Risk Assessment, the probability of a flood event may be taken as Zone 1 – Low Probability, as it has less than a 1 in 1000 annual probability or greater of river flooding, ignoring the presence of existing flood defences.

In order to effectively manage any site-specific flood risk, it may be necessary to introduce mitigation measures to help eliminate or reduce the impact of potential flooding. However, as this development is for agricultural development and consists of a new silage clamps and slurry lagoon, where there are no foreseen flood risks, specific flood risk management measures are not required, other than following the guidance for surface water management in the design process.

There are no foreseen adverse residual impacts to neighbouring properties or the surrounding area in relation to flood risk as a result of the proposed development scheme.



Flood Risk Assessment & Drainage Strategy
At Danefold Farm, Littleworth Lane
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On the basis of the findings of this report, it is recommended that no objections should be raised to the development proposals on the grounds of flood risk.

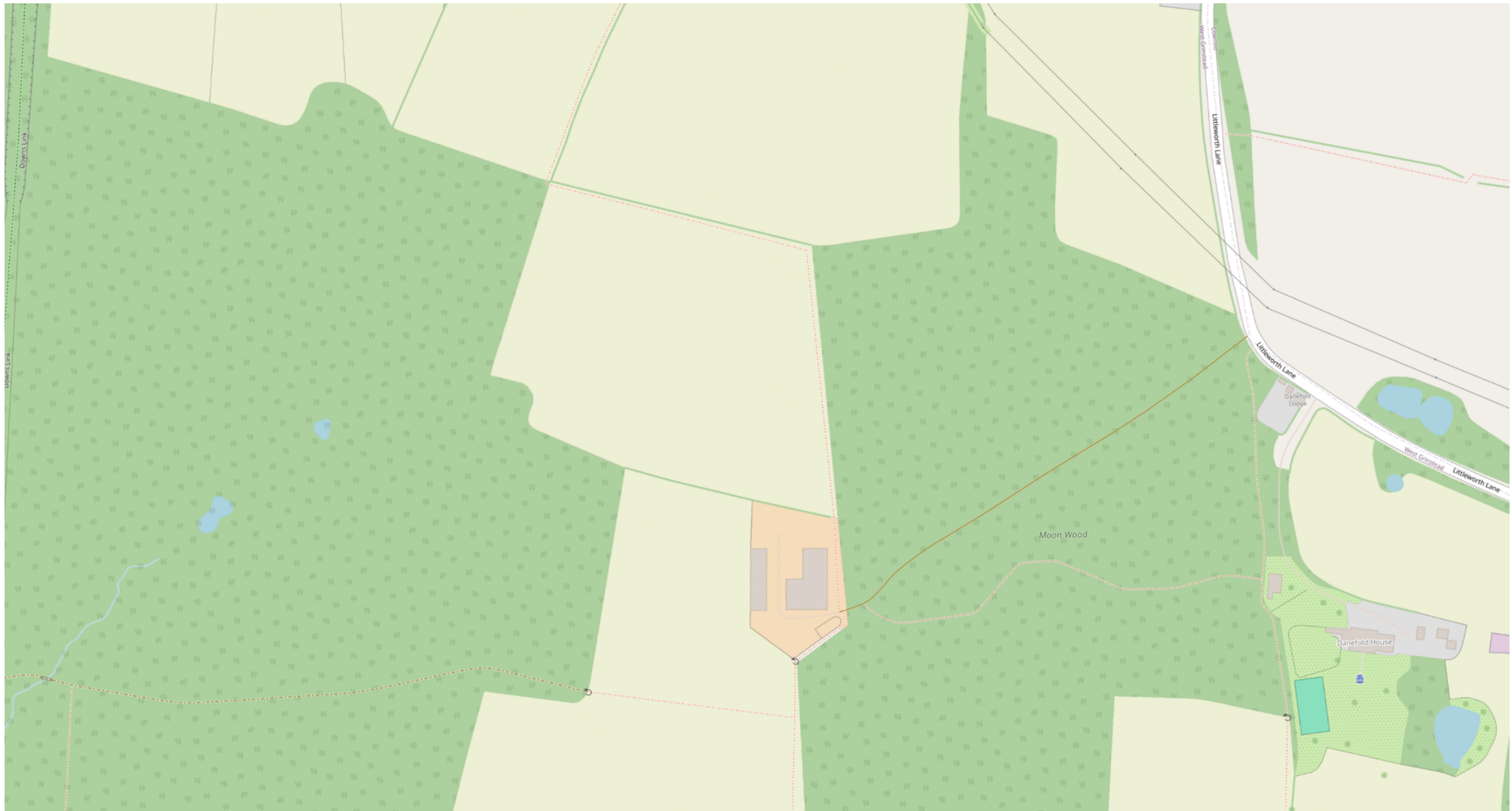


Flood Risk Assessment & Drainage Strategy At Danefold Farm, Littleworth Lane West Sussex, RH13 8NA

Appendices

- Site Location Plan
- Flood Maps for Planning
- Fluvial Flood Maps
- Surface Water Flood Maps
- Reservoir Flood Maps
- Geoindex Map
- SPZ Plan
- Groundwater Zones
- Sewer Asset Plan
- Danefold Farm Site Plan
- Danefold Farm Topographical Survey
- RSPD 6126-01 Drainage Design
- RSPD 6126 FLOW Calculations

Danefold Farm



Flood map for planning

Your reference
Unspecified

Location (easting/northing)
518806/122113

Created
19 May 2025 09:36

Your selected location is in flood zone 1, an area with a low probability of flooding.

You will need to do a flood risk assessment if your site is **any of the following**:

- bigger than 1 hectare (ha)
- in an area with critical drainage problems as notified by the Environment Agency
- identified as being at increased flood risk in future by the local authority's strategic flood risk assessment
- at risk from other sources of flooding (such as surface water or reservoirs) and its development would increase the vulnerability of its use (such as constructing an office on an undeveloped site or converting a shop to a dwelling)

Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

Flood risk data is covered by the Open Government Licence which sets out the terms and conditions for using government data. <https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3>

Use of the address and mapping data is subject to Ordnance Survey public viewing terms under Crown copyright and database rights 2025 AC0000807064. <https://flood-map-for-planning.service.gov.uk/os-terms>



Flood map for planning

Your reference

Unspecified

Location (easting/northing)

518806/122113

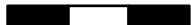
Scale

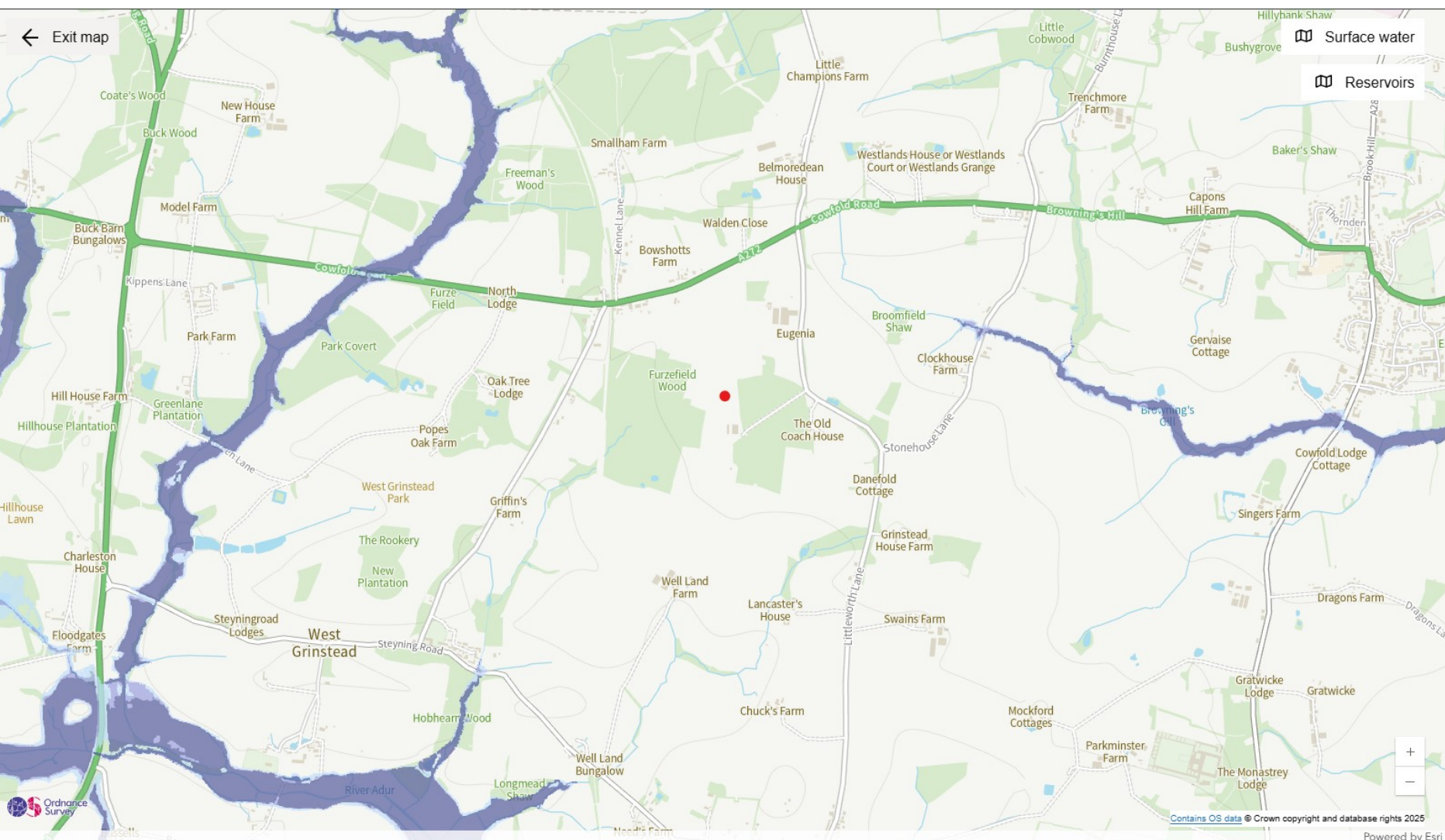
1:2,500

Created

19 May 2025 09:36

-  Selected area
-  Flood zone 3
-  Flood zone 2
-  Flood zone 1
-  Flood defence
-  Main river
-  Water storage area


0 20 40 60m



Rivers and sea map

Yearly chance of flooding

☒ Extent

- ☒ High chance
More than 3.3% chance each year
- ☐ Medium chance
Between 1% and 3.3% chance each year
- ☐ Low chance
Between 0.1% and 1% chance each year
- ☐ Very low chance
Less than 0.1% chance each year

☐ Depth

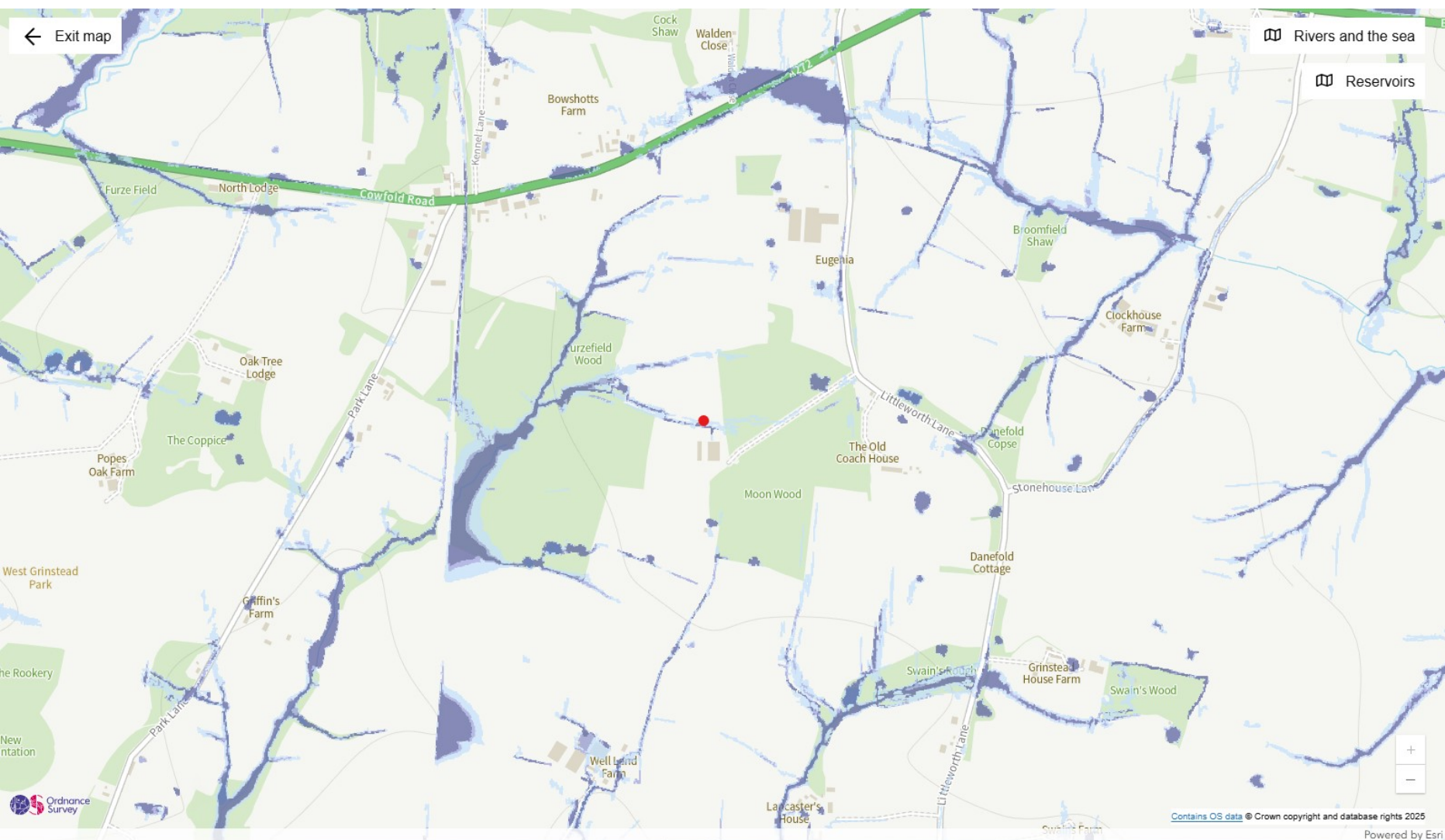
Yearly chance of flooding between 2036 and 2069

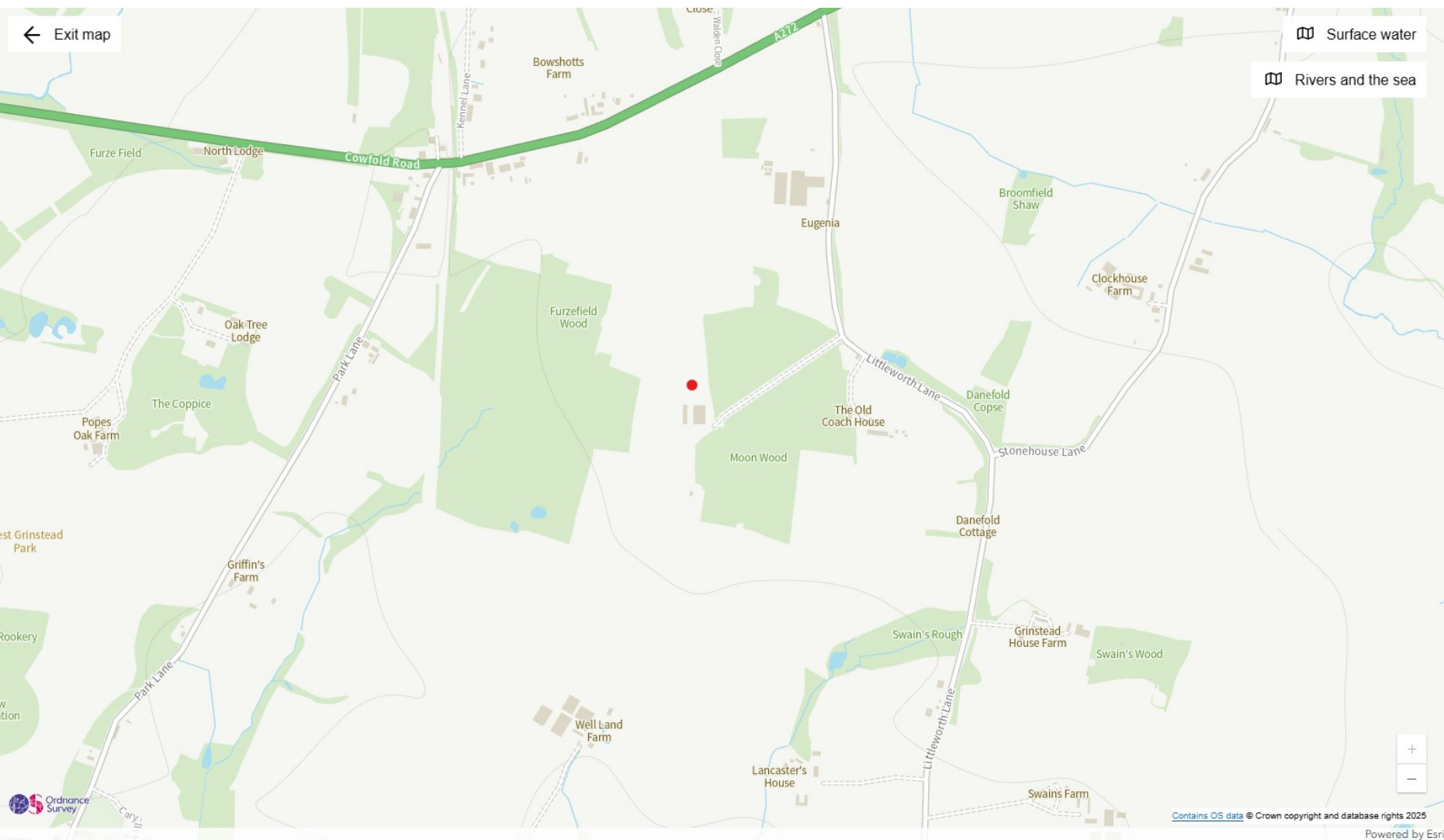
☐ Extent

☐ Depth

Map details

- ☒ Show flooding





Reservoirs map

Extent

- ☐ When river levels are normal
- ☐ When there is also flooding from rivers

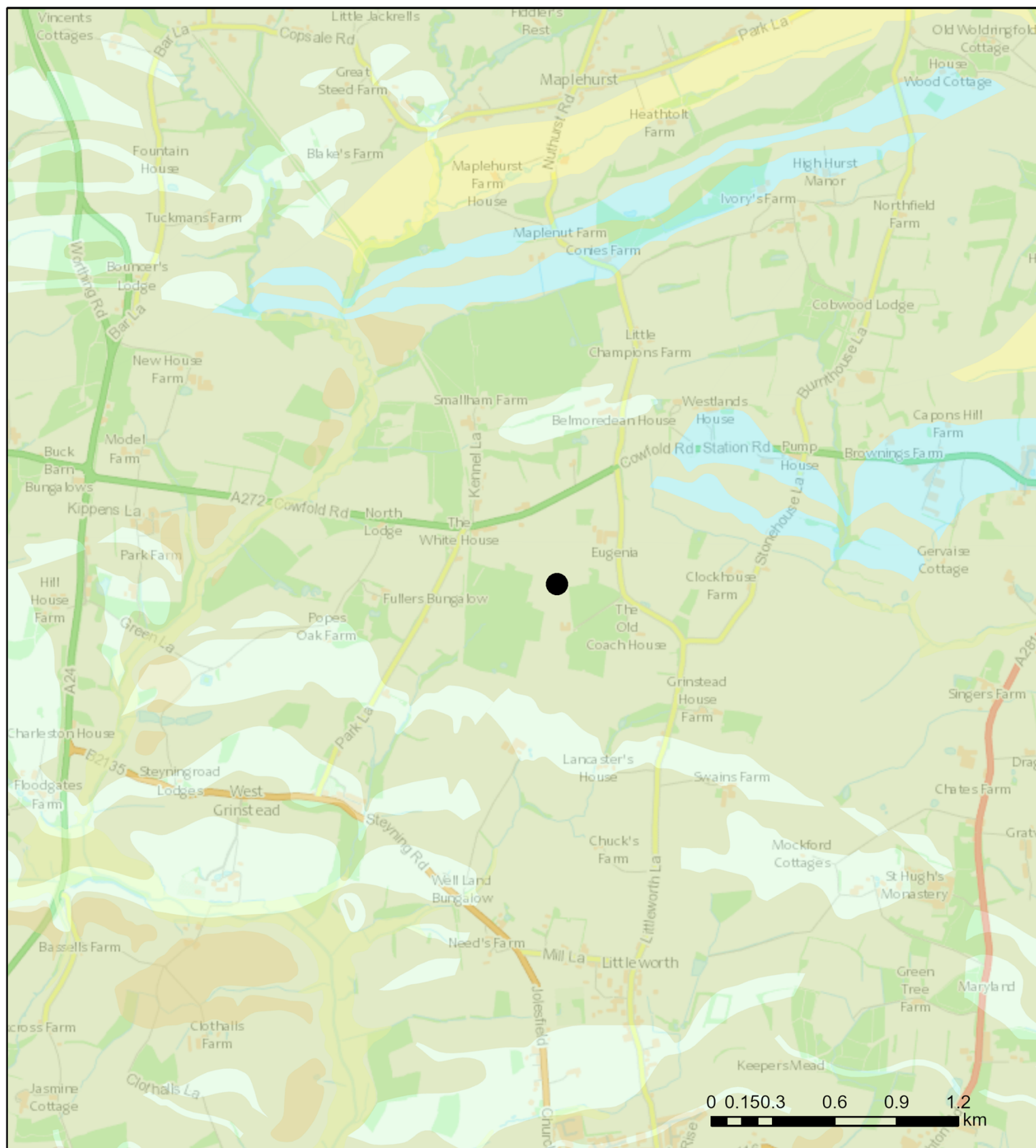
Map details

- ☒ Show flooding

GeoIndex Report



British
Geological
Survey



Contains OS data © Crown Copyright and database right 2020

GeoIndex Onshore Data Sources: NERC, Natural England, English Heritage and Ordnance Survey

Map Key

Superficial deposits 1:50,000 scale

-  [ALLUVIUM - CLAY, SILT, SAND AND GRAVEL](#)
-  [HEAD - CLAY, SILT, SAND AND GRAVEL](#)
-  [RIVER TERRACE DEPOSITS, 1 \(ADUR\) - SAND AND GRAVEL](#)
-  [RIVER TERRACE DEPOSITS, 2 \(ADUR\) - SAND AND GRAVEL](#)
-  [RIVER TERRACE DEPOSITS, 3 \(ADUR\) - SAND AND GRAVEL](#)

Bedrock geology 1:50,000 scale

-  [HORSHAM STONE MEMBER - SANDSTONE](#)
-  [WEALD CLAY FORMATION - SANDSTONE](#)
-  [WEALD CLAY FORMATION - MUDSTONE](#)
-  [UPPER TUNBRIDGE WELLS SAND - SANDSTONE AND SILTSTONE, INTERBEDDED](#)
-  [UPPER TUNBRIDGE WELLS SAND - SANDSTONE AND MUDSTONE](#)
-  [LOWER TUNBRIDGE WELLS SAND - SANDSTONE, SILTSTONE AND MUDSTONE](#)
-  [CUCKFIELD STONE BED - SANDSTONE, CALCAREOUS](#)
-  [WEALD CLAY FORMATION - CLAY-IRONSTONE](#)
-  [WADHURST CLAY FORMATION - MUDSTONE](#)
-  [LOWER GRINSTEAD CLAY - MUDSTONE](#)
-  [UPPER GRINSTEAD CLAY - MUDSTONE](#)
-  [UPPER TUNBRIDGE WELLS SAND - MUDSTONE](#)
-  [ARDINGLY SANDSTONE MEMBER - SANDSTONE](#)
-  [WEALD CLAY FORMATION - LIMESTONE](#)

Selection Results

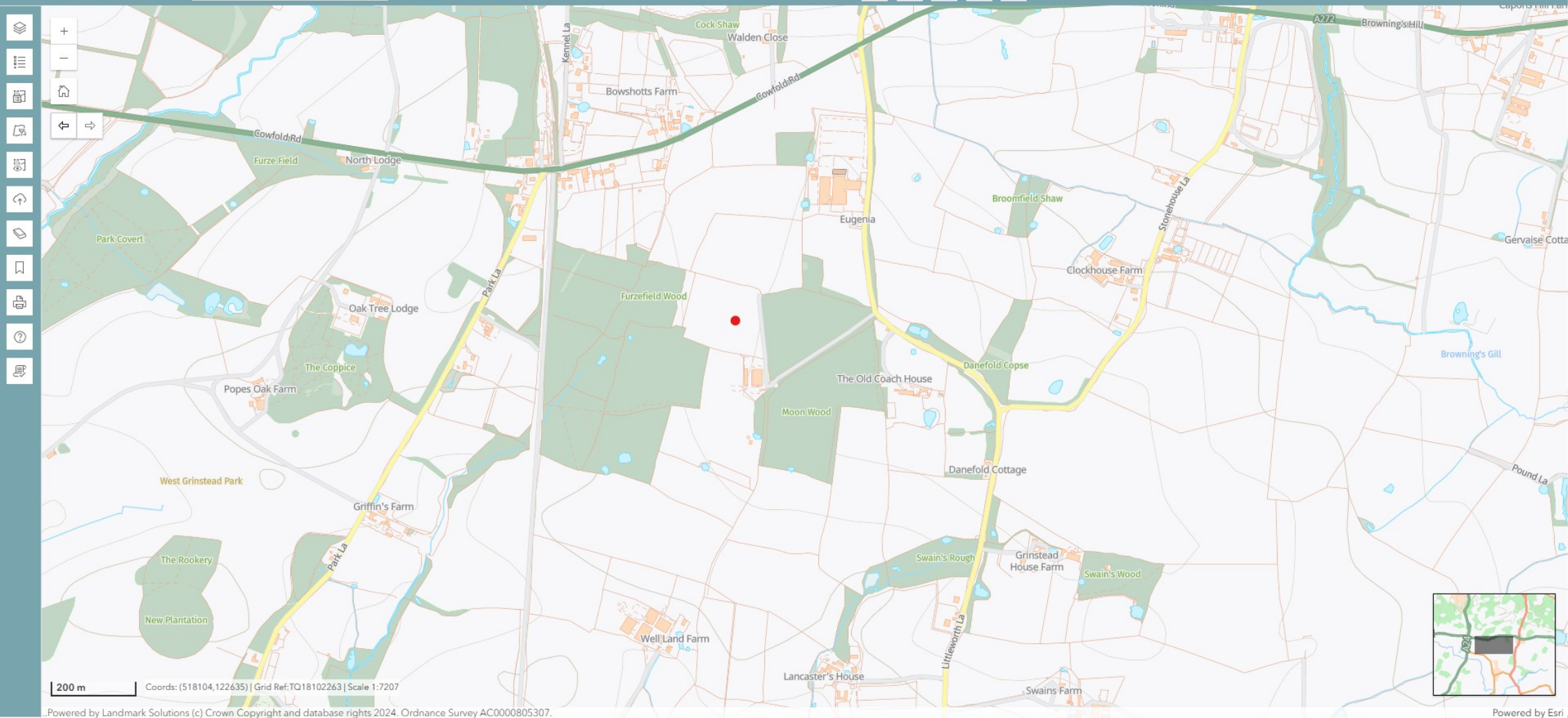
MAGiC

359625,269691 / SO59...



OSGB36

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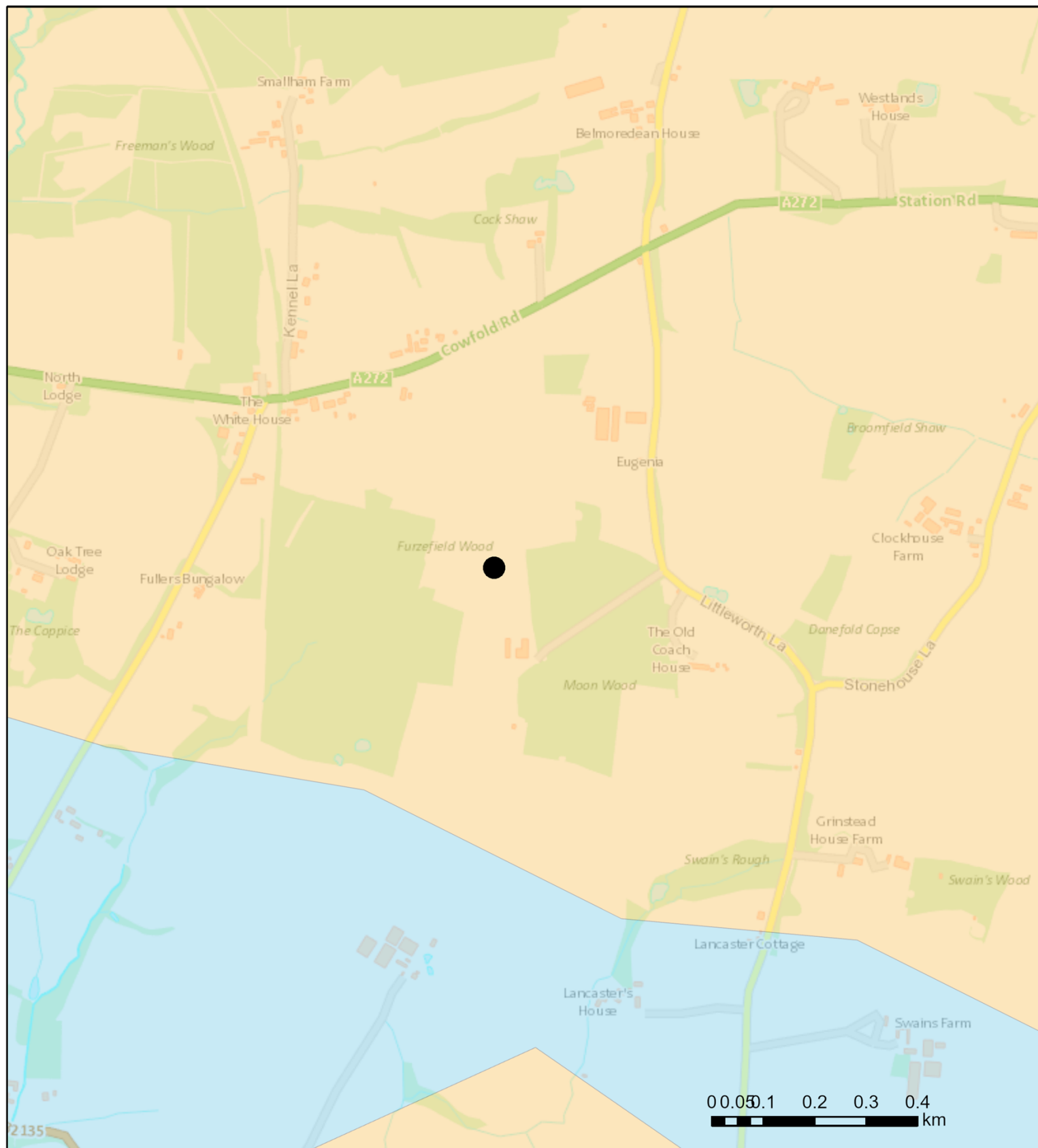
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Powered by Esri

Groundwater Zones



British
Geological
Survey



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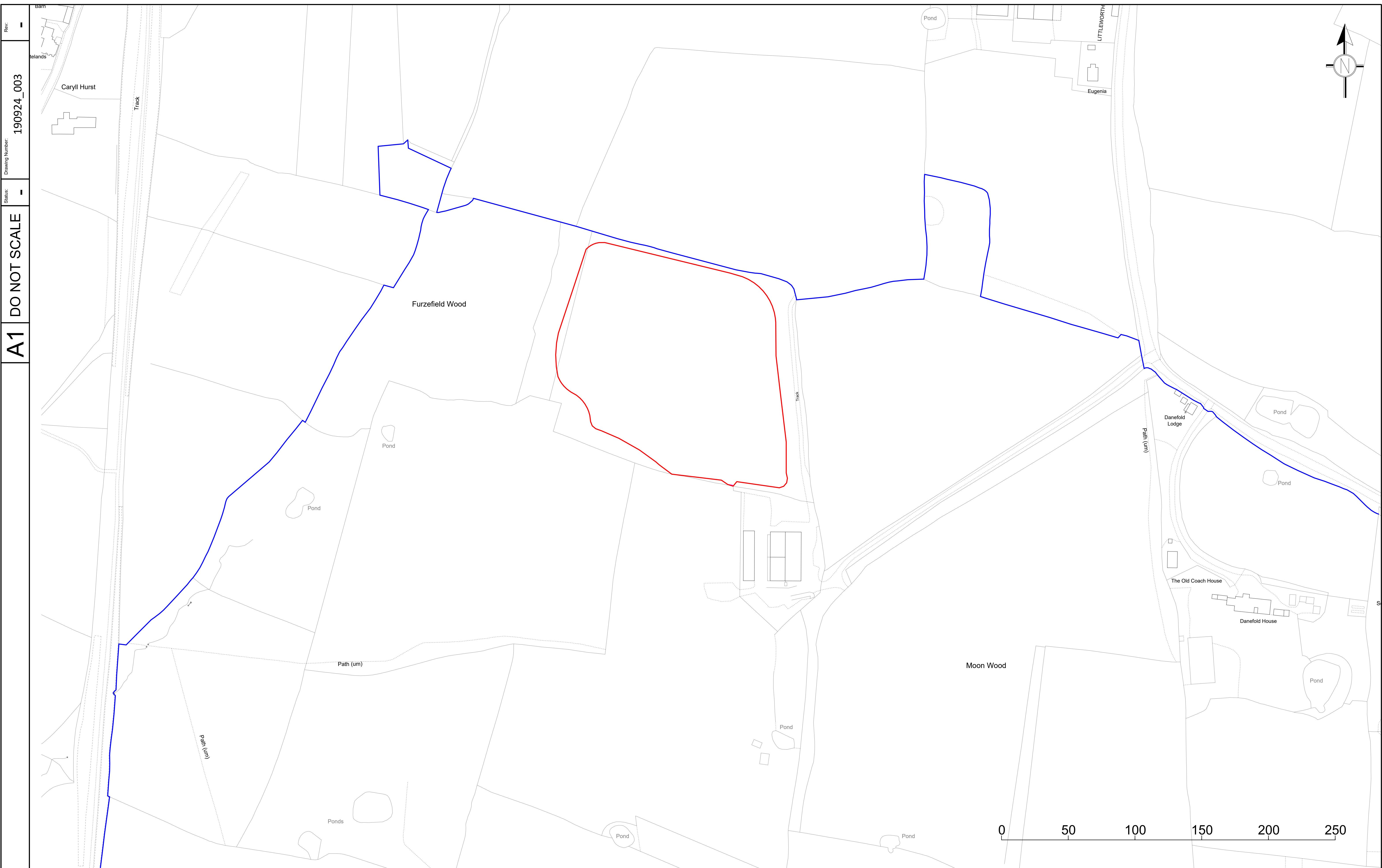
GeoIndex Onshore Data Sources: NERC, Natural England, English Heritage and Ordnance Survey

Map Key

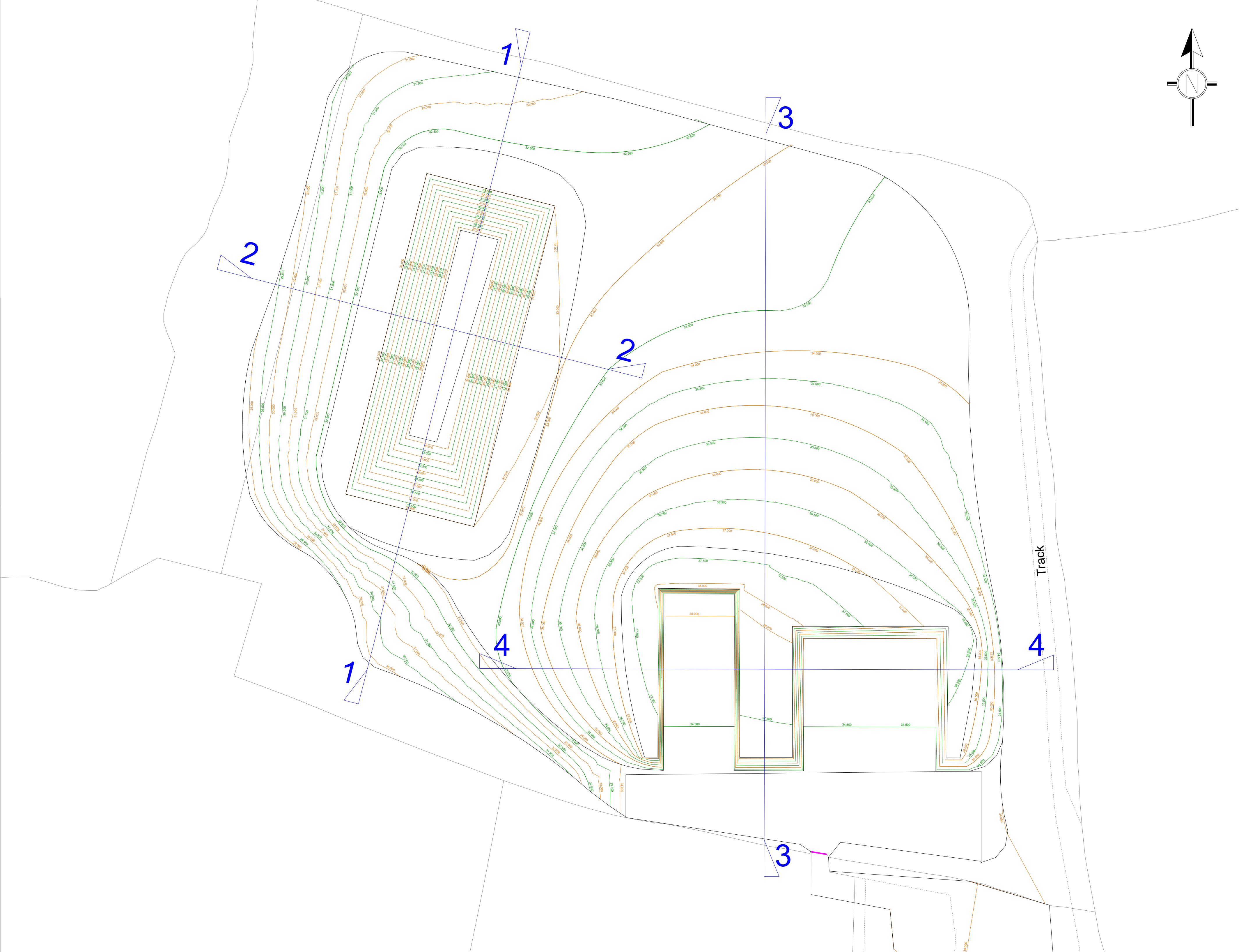
Hydrogeology 1:625,000 scale

- Aquifers with significant intergranular flow
-  Highly productive aquifer
 -  Moderately productive aquifer
 -  Low productivity aquifer
- Aquifers in which flow is virtually all through fractures and other discontinuities
-  Highly productive aquifer
 -  Moderately productive aquifer
 -  Low productivity aquifer
 -  Rocks with essentially no groundwater

Selection Results



						NOTES: 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT INFORMATION ISSUED BY OTHERS FOR THIS PROJECT AND THE SPECIFICATION. 2. DO NOT SCALE FROM THIS DRAWING. 3. FOR SETTING OUT DIMENSIONS AND LEVELS REFER TO RELEVANT DRAWINGS AND THOSE BY OTHERS.		Client: DANEFOLD FARMS		Drawing Title: LOCATION PLAN				
								Project: DANEFOLD FARM		Sheet Size: A1	Original Scale: 1:1250	Designed/Drawn: RC Date 19.09.24	Checked: MJF Date 19.09.24	Authorised: MJF Date 19.09.24
REV		DESCRIPTION				BY	DATE	CHK'D	AUTH	Status: -	Drawing Number: 190924_003			Rev: -

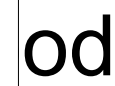


SECTION 1	
PROPOSED	
SURVEY	
CHAINAGE	2.800 5.000 7.500 14.000 15.000 15.000 17.000 20.000 22.500 25.000 27.000 32.500 35.000 35.000 37.000 37.000 40.000 42.500 45.000 47.500 50.000 52.500 55.000 57.500 60.000 62.500 65.000 67.500 70.000 72.500 75.000 77.500 80.000 82.500 85.000 87.500 90.000 92.500 95.000 97.500 100.000 102.500 105.000 107.500 110.000 112.500 115.000 117.500 120.000 122.500 125.000 127.500 130.000 132.500 135.000 137.500 140.000 142.500 145.000

SECTION 2	
PROPOSED	
SURVEY	
CHAINAGE	2.800 5.000 10.000 12.500 15.000 17.500 20.000 22.500 25.000 27.500 30.000 32.500 35.000 37.500 40.000 42.500 45.000 47.500 50.000 52.500 55.000 57.500 60.000 62.500 65.000 67.500 70.000 72.500 75.000 77.500 80.000 82.500 85.000 87.500 90.000 92.500 95.000 97.500 100.000 102.500 105.000 107.500 110.000 112.500 115.000 117.500 120.000 122.500 125.000 127.500 130.000 132.500 135.000 137.500 140.000 142.500 145.000

SECTION 3	
PROPOSED	
SURVEY	
CHAINAGE	2.800 5.000 7.500 10.000 12.500 15.000 17.500 20.000 22.500 25.000 27.500 30.000 32.500 35.000 37.500 40.000 42.500 45.000 47.500 50.000 52.500 55.000 57.500 60.000 62.500 65.000 67.500 70.000 72.500 75.000 77.500 80.000 82.500 85.000 87.500 90.000 92.500 95.000 97.500 100.000 102.500 105.000 107.500 110.000 112.500 115.000 117.500 120.000 122.500 125.000 127.500 130.000 132.500 135.000 137.500 140.000 142.500 145.000

SECTION 4	
PROPOSED	
SURVEY	
CHAINAGE	2.800 5.000 7.500 10.000 12.500 15.000 17.500 20.000 22.500 25.000 27.500 30.000 32.500 35.000 37.500 40.000 42.500 45.000 47.500 50.000 52.500 55.000 57.500 60.000 62.500 65.000 67.500 70.000 72.500 75.000 77.500 80.000 82.500 85.000 87.500 90.000 92.500 95.000 97.500 100.000 102.500 105.000 107.500 110.000 112.500 115.000 117.500 120.000 122.500 125.000 127.500 130.000 132.500 135.000 137.500 140.000 142.500 145.000



General Notes

KEY:

- | | |
|--|------------------------------|
| | Application Site Boundary |
| | Surface Water Drain |
| | Foul Water Drain |
| | Linear Drain |
| | Pipe Protection |
| | SW Rising Main |
| | FW Rising Main |
| | French Drain/Perforated Pipe |
| | Surface Catch Pit/Manhole |
| | Foul Water Manhole |
| | Surface Water Soakaway |
| | Gully & Lead |
| | Premier Tech GRP Cesspool |
| | Retaining Wall |
| | Spot Levels |
| | Direction of Flow |
| | Embankment |
| | Brick Headwall |

FOR
PLANNING

Rev A	Pipe Upsized from Ø225 to Ø300	15/09/25
No.	Revision/Issue	Date



Project Name and Address

DANEFOLD FARM,
LITTLEWORTH LANE,
WEST SUSSEX.

Description

DRAINAGE STRATEGY

Project 6126	Sheet 01
Date 20/05/2025	
Scale 1:500 @ A1	

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	2	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	0.75
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	0.350
CV	1.000	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Adoptable Manhole Type

Max Width (mm)	Diameter (mm)	Max Width (mm)	Diameter (mm)	Max Width (mm)	Diameter (mm)	Max Width (mm)	Diameter (mm)
374	1200	499	1350	749	1500	900	1800

>900 Link+900 mm

Max Depth (m)	Diameter (mm)	Max Depth (m)	Diameter (mm)
1.500	1050	99.999	1200

Circular Link Type

Template	Freeform Carrier	Barrels	1	Follow Ground	x
Shape	Circular	Auto Increment (mm)	75		

Available Diameters (mm)

100 | 150

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
S1	0.154	5.00	34.000	600	518800.840	122042.780	0.575
S2			34.250	600	518780.000	122062.870	1.250
S3			33.000	600	518765.750	122099.220	0.850
SLURRY PIT	0.225	5.00	33.000	1200	518758.910	122142.540	1.000
INLET			33.000	1200	518763.940	122103.890	0.925

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	S1	S2	28.947	0.600	33.425	33.000	0.425	68.1	300	5.25	50.0
1.001	S2	S3	39.043	0.600	33.000	32.150	0.850	45.9	300	5.53	50.0
1.002	S3	INLET	5.008	0.600	32.150	32.075	0.075	66.8	300	5.58	50.0
1.003	INLET	SLURRY PIT	38.976	0.600	32.075	32.000	0.075	519.7	300	6.53	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	1.907	134.8	27.8	0.275	0.950	0.154	0.0	92	1.515
1.001	2.325	164.4	27.8	0.950	0.550	0.154	0.0	83	1.744
1.002	1.926	136.2	27.8	0.550	0.625	0.154	0.0	92	1.525
1.003	0.683	48.3	27.8	0.625	0.700	0.154	0.0	164	0.707

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	28.947	68.1	300	Circular	34.000	33.425	0.275	34.250	33.000	0.950
1.001	39.043	45.9	300	Circular	34.250	33.000	0.950	33.000	32.150	0.550
1.002	5.008	66.8	300	Circular	33.000	32.150	0.550	33.000	32.075	0.625
1.003	38.976	519.7	300	Circular	33.000	32.075	0.625	33.000	32.000	0.700

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	S1	600	Manhole	Adoptable	S2	600	Manhole	Adoptable
1.001	S2	600	Manhole	Adoptable	S3	600	Manhole	Adoptable
1.002	S3	600	Manhole	Adoptable	INLET	1200	Manhole	Adoptable
1.003	INLET	1200	Manhole	Adoptable	SLURRY PIT	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S1	518800.840	122042.780	34.000	0.575	600				
						0	1.000	33.425	300
S2	518780.000	122062.870	34.250	1.250	600		1	1.000	33.000
						0	1.001	33.000	300
S3	518765.750	122099.220	33.000	0.850	600		1	1.001	32.150
						0	1.002	32.150	300
SLURRY PIT	518758.910	122142.540	33.000	1.000	1200		1	1.003	32.000
									300

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
INLET	518763.940	122103.890	33.000	0.925	1200		1	1.002	32.075	300
							0	1.003	32.075	300

Simulation Settings

Rainfall Methodology	FSR	Summer CV	1.000	Additional Storage (m³/ha)	20.0
Rainfall Events	Singular	Winter CV	1.000	Starting Level (m)	
FSR Region	England and Wales	Analysis Speed	Detailed	Check Discharge Rate(s)	x
M5-60 (mm)	20.000	Skip Steady State	x	Check Discharge Volume	x
Ratio-R	0.400	Drain Down Time (mins)	240		

Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440 | 2160 | 2880

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0	100	0	0	0
30	35	0	0	100	45	0	0

Node SLURRY PIT Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	32.000
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	0

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	1846.0	0.0	1.000	2250.0	0.0

Other (defaults)

Entry Loss (manhole)	0.250	Entry Loss (junction)	0.000	Apply Recommended Losses	x
Exit Loss (manhole)	0.250	Exit Loss (junction)	0.000	Flood Risk (m)	0.300

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 15 minute summer	141.566	40.058	2 year 2880 minute winter	2.360	0.941
2 year 15 minute winter	99.345	40.058	30 year +35% CC 15 minute summer	362.754	102.647
2 year 30 minute summer	91.753	25.963	30 year +35% CC 15 minute winter	254.564	102.647
2 year 30 minute winter	64.388	25.963	30 year +35% CC 30 minute summer	236.154	66.823
2 year 60 minute summer	61.301	16.200	30 year +35% CC 30 minute winter	165.722	66.823
2 year 60 minute winter	40.727	16.200	30 year +35% CC 60 minute summer	157.395	41.595
2 year 120 minute summer	37.449	9.897	30 year +35% CC 60 minute winter	104.570	41.595
2 year 120 minute winter	24.880	9.897	30 year +35% CC 120 minute summer	95.091	25.130
2 year 180 minute summer	28.672	7.378	30 year +35% CC 120 minute winter	63.176	25.130
2 year 180 minute winter	18.637	7.378	30 year +35% CC 180 minute summer	71.952	18.516
2 year 240 minute summer	22.636	5.982	30 year +35% CC 180 minute winter	46.771	18.516
2 year 240 minute winter	15.039	5.982	30 year +35% CC 240 minute summer	56.165	14.843
2 year 360 minute summer	17.235	4.435	30 year +35% CC 240 minute winter	37.315	14.843
2 year 360 minute winter	11.203	4.435	30 year +35% CC 360 minute summer	42.149	10.846
2 year 480 minute summer	13.550	3.581	30 year +35% CC 360 minute winter	27.398	10.846
2 year 480 minute winter	9.003	3.581	30 year +35% CC 480 minute summer	32.837	8.678
2 year 600 minute summer	11.088	3.033	30 year +35% CC 480 minute winter	21.816	8.678
2 year 600 minute winter	7.576	3.033	30 year +35% CC 600 minute summer	26.670	7.295
2 year 720 minute summer	9.878	2.647	30 year +35% CC 600 minute winter	18.223	7.295
2 year 720 minute winter	6.639	2.647	30 year +35% CC 720 minute summer	23.611	6.328
2 year 960 minute summer	8.113	2.136	30 year +35% CC 720 minute winter	15.868	6.328
2 year 960 minute winter	5.374	2.136	30 year +35% CC 960 minute summer	19.190	5.053
2 year 1440 minute summer	5.891	1.579	30 year +35% CC 960 minute winter	12.712	5.053
2 year 1440 minute winter	3.959	1.579	30 year +35% CC 1440 minute summer	13.717	3.676
2 year 2160 minute summer	4.223	1.167	30 year +35% CC 1440 minute winter	9.219	3.676
2 year 2160 minute winter	2.909	1.167	30 year +35% CC 2160 minute summer	9.666	2.671
2 year 2880 minute summer	3.512	0.941	30 year +35% CC 2160 minute winter	6.660	2.671

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
30 year +35% CC 2880 minute summer	7.941	2.128	100 year 2880 minute winter	4.954	1.975
30 year +35% CC 2880 minute winter	5.337	2.128	100 year +45% CC 15 minute summer	505.670	143.087
100 year 15 minute summer	348.738	98.681	100 year +45% CC 15 minute winter	354.856	143.087
100 year 15 minute winter	244.728	98.681	100 year +45% CC 30 minute summer	332.000	93.944
100 year 30 minute summer	228.965	64.789	100 year +45% CC 30 minute winter	232.982	93.944
100 year 30 minute winter	160.677	64.789	100 year +45% CC 60 minute summer	222.268	58.739
100 year 60 minute summer	153.288	40.510	100 year +45% CC 60 minute winter	147.669	58.739
100 year 60 minute winter	101.841	40.510	100 year +45% CC 120 minute summer	134.215	35.469
100 year 120 minute summer	92.562	24.461	100 year +45% CC 120 minute winter	89.169	35.469
100 year 120 minute winter	61.496	24.461	100 year +45% CC 180 minute summer	101.219	26.047
100 year 180 minute summer	69.806	17.964	100 year +45% CC 180 minute winter	65.795	26.047
100 year 180 minute winter	45.376	17.964	100 year +45% CC 240 minute summer	78.690	20.795
100 year 240 minute summer	54.269	14.342	100 year +45% CC 240 minute winter	52.280	20.795
100 year 240 minute winter	36.055	14.342	100 year +45% CC 360 minute summer	58.701	15.106
100 year 360 minute summer	40.484	10.418	100 year +45% CC 360 minute winter	38.157	15.106
100 year 360 minute winter	26.315	10.418	100 year +45% CC 480 minute summer	45.550	12.038
100 year 480 minute summer	31.414	8.302	100 year +45% CC 480 minute winter	30.262	12.038
100 year 480 minute winter	20.871	8.302	100 year +45% CC 600 minute summer	36.875	10.086
100 year 600 minute summer	25.431	6.956	100 year +45% CC 600 minute winter	25.195	10.086
100 year 600 minute winter	17.376	6.956	100 year +45% CC 720 minute summer	32.556	8.725
100 year 720 minute summer	22.452	6.017	100 year +45% CC 720 minute winter	21.879	8.725
100 year 720 minute winter	15.089	6.017	100 year +45% CC 960 minute summer	26.340	6.936
100 year 960 minute summer	18.166	4.784	100 year +45% CC 960 minute winter	17.448	6.936
100 year 960 minute winter	12.033	4.784	100 year +45% CC 1440 minute summer	18.700	5.012
100 year 1440 minute summer	12.896	3.456	100 year +45% CC 1440 minute winter	12.567	5.012
100 year 1440 minute winter	8.667	3.456	100 year +45% CC 2160 minute summer	13.081	3.615
100 year 2160 minute summer	9.021	2.493	100 year +45% CC 2160 minute winter	9.013	3.615
100 year 2160 minute winter	6.216	2.493	100 year +45% CC 2880 minute summer	10.688	2.864
100 year 2880 minute summer	7.371	1.975	100 year +45% CC 2880 minute winter	7.183	2.864

Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	10	33.535	0.110	35.6	0.6223	0.0000	OK
15 minute summer	S2	11	33.093	0.093	35.2	0.0263	0.0000	OK
15 minute summer	S3	11	32.290	0.140	34.8	0.0395	0.0000	OK
15 minute summer	SLURRY PIT	11	32.144	0.144	84.5	0.0000	0.0000	OK
15 minute summer	INLET	11	32.266	0.191	35.0	0.2157	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S1	1.000	S2	35.2	1.675	0.261	0.6085	
15 minute summer	S2	1.001	S3	34.8	1.423	0.212	0.9893	
15 minute summer	S3	1.002	INLET	35.0	0.887	0.257	0.1987	
15 minute summer	INLET	1.003	SLURRY PIT	34.9	0.865	0.722	1.5701	15.4

Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	10	33.621	0.196	91.1	1.1031	0.0000	OK
15 minute summer	S2	10	33.156	0.156	90.1	0.0442	0.0000	OK
15 minute summer	S3	11	32.597	0.447	89.5	0.1264	0.0000	SURCHARGED
15 minute summer	SLURRY PIT	11	32.233	0.233	216.7	0.0000	0.0000	OK
15 minute summer	INLET	11	32.522	0.447	89.2	0.5060	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S1	1.000	S2	90.1	2.101	0.669	1.2404	
15 minute summer	S2	1.001	S3	89.5	1.622	0.544	2.0981	
15 minute summer	S3	1.002	INLET	89.2	1.267	0.655	0.3527	
15 minute summer	INLET	1.003	SLURRY PIT	89.4	1.302	1.852	2.5158	39.4

Results for 100 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	10	33.615	0.190	87.6	1.0736	0.0000	OK
15 minute summer	S2	10	33.153	0.153	86.7	0.0432	0.0000	OK
15 minute summer	S3	11	32.568	0.418	86.0	0.1184	0.0000	SURCHARGED
15 minute summer	SLURRY PIT	11	32.229	0.229	208.2	0.0000	0.0000	OK
15 minute summer	INLET	11	32.499	0.424	85.8	0.4801	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S1	1.000	S2	86.7	2.084	0.643	1.2031	
15 minute summer	S2	1.001	S3	86.0	1.614	0.523	2.0771	
15 minute summer	S3	1.002	INLET	85.8	1.218	0.630	0.3527	
15 minute summer	INLET	1.003	SLURRY PIT	85.9	1.258	1.781	2.4951	37.9

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	11	33.718	0.293	127.1	1.6499	0.0000	OK
15 minute summer	S2	12	33.350	0.350	124.8	0.0989	0.0000	SURCHARGED
15 minute summer	S3	11	32.847	0.697	117.5	0.1973	0.0000	FLOOD RISK
15 minute summer	SLURRY PIT	11	32.261	0.261	297.6	0.0000	0.0000	OK
15 minute summer	INLET	11	32.725	0.650	115.0	0.7348	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S1	1.000	S2	124.8	2.126	0.926	2.0318	
15 minute summer	S2	1.001	S3	117.5	1.684	0.715	2.7494	
15 minute summer	S3	1.002	INLET	115.0	1.634	0.845	0.3527	
15 minute summer	INLET	1.003	SLURRY PIT	115.8	1.650	2.399	2.6393	55.1

Results for 2 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	10	33.535	0.110	35.6	0.6223	0.0000	OK
15 minute summer	S2	11	33.093	0.093	35.2	0.0263	0.0000	OK
15 minute summer	S3	11	32.290	0.140	34.8	0.0395	0.0000	OK
15 minute summer	SLURRY PIT	11	32.144	0.144	84.5	0.0000	0.0000	OK
15 minute summer	INLET	11	32.266	0.191	35.0	0.2157	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S1	1.000	S2	35.2	1.675	0.261	0.6085	
15 minute summer	S2	1.001	S3	34.8	1.423	0.212	0.9893	
15 minute summer	S3	1.002	INLET	35.0	0.887	0.257	0.1987	
15 minute summer	INLET	1.003	SLURRY PIT	34.9	0.865	0.722	1.5701	15.4

Results for 2 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	33.531	0.106	33.4	0.6000	0.0000	OK
15 minute winter	S2	11	33.090	0.090	32.9	0.0254	0.0000	OK
15 minute winter	S3	11	32.283	0.133	32.5	0.0376	0.0000	OK
15 minute winter	SLURRY PIT	11	32.138	0.138	78.6	0.0000	0.0000	OK
15 minute winter	INLET	11	32.258	0.183	32.7	0.2070	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S1	1.000	S2	32.9	1.646	0.244	0.5787	
15 minute winter	S2	1.001	S3	32.5	1.398	0.198	0.9319	
15 minute winter	S3	1.002	INLET	32.7	0.877	0.240	0.1880	
15 minute winter	INLET	1.003	SLURRY PIT	32.5	0.848	0.674	1.4962	15.4

Results for 2 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S1	18	33.529	0.104	31.7	0.5863	0.0000	OK
30 minute summer	S2	18	33.089	0.089	31.7	0.0251	0.0000	OK
30 minute summer	S3	18	32.279	0.129	31.7	0.0365	0.0000	OK
30 minute summer	SLURRY PIT	19	32.136	0.136	76.8	0.0000	0.0000	OK
30 minute summer	INLET	19	32.253	0.178	31.4	0.2017	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S1	1.000	S2	31.7	1.628	0.235	0.5647	
30 minute summer	S2	1.001	S3	31.7	1.391	0.193	0.9031	
30 minute summer	S3	1.002	INLET	31.4	0.869	0.230	0.1808	
30 minute summer	INLET	1.003	SLURRY PIT	31.5	0.842	0.652	1.4560	20.0

Results for 2 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S1	18	33.518	0.093	25.6	0.5224	0.0000	OK
30 minute winter	S2	18	33.079	0.079	25.6	0.0225	0.0000	OK
30 minute winter	S3	18	32.261	0.111	25.6	0.0315	0.0000	OK
30 minute winter	SLURRY PIT	19	32.122	0.122	62.3	0.0000	0.0000	OK
30 minute winter	INLET	19	32.233	0.158	25.4	0.1786	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	S1	1.000	S2	25.6	1.537	0.190	0.4829	
30 minute winter	S2	1.001	S3	25.6	1.335	0.156	0.7540	
30 minute winter	S3	1.002	INLET	25.4	0.835	0.187	0.1531	
30 minute winter	INLET	1.003	SLURRY PIT	25.5	0.792	0.529	1.2561	20.0

Results for 2 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S1	33	33.514	0.089	23.5	0.4991	0.0000	OK
60 minute summer	S2	33	33.076	0.076	23.5	0.0215	0.0000	OK
60 minute summer	S3	33	32.255	0.105	23.5	0.0297	0.0000	OK
60 minute summer	SLURRY PIT	34	32.117	0.117	57.4	0.0000	0.0000	OK
60 minute summer	INLET	34	32.225	0.150	23.4	0.1702	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	S1	1.000	S2	23.5	1.502	0.174	0.4538	
60 minute summer	S2	1.001	S3	23.5	1.316	0.143	0.7022	
60 minute summer	S3	1.002	INLET	23.4	0.821	0.172	0.1431	
60 minute summer	INLET	1.003	SLURRY PIT	23.4	0.773	0.485	1.1829	24.9

Results for 2 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S1	33	33.500	0.075	17.0	0.4213	0.0000	OK
60 minute winter	S2	33	33.065	0.065	17.0	0.0183	0.0000	OK
60 minute winter	S3	33	32.235	0.085	17.0	0.0241	0.0000	OK
60 minute winter	SLURRY PIT	34	32.099	0.099	41.6	0.0000	0.0000	OK
60 minute winter	INLET	34	32.201	0.126	17.0	0.1428	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	S1	1.000	S2	17.0	1.373	0.126	0.3590	
60 minute winter	S2	1.001	S3	17.0	1.239	0.103	0.5377	
60 minute winter	S3	1.002	INLET	17.0	0.767	0.125	0.1115	
60 minute winter	INLET	1.003	SLURRY PIT	17.0	0.705	0.352	0.9414	24.9

Results for 2 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S1	64	33.496	0.071	15.3	0.3990	0.0000	OK
120 minute summer	S2	64	33.061	0.061	15.3	0.0174	0.0000	OK
120 minute summer	S3	64	32.230	0.080	15.3	0.0226	0.0000	OK
120 minute summer	SLURRY PIT	64	32.094	0.094	37.7	0.0000	0.0000	OK
120 minute summer	INLET	64	32.194	0.119	15.3	0.1351	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	S1	1.000	S2	15.3	1.333	0.113	0.3328	
120 minute summer	S2	1.001	S3	15.3	1.214	0.093	0.4944	
120 minute summer	S3	1.002	INLET	15.3	0.750	0.112	0.1030	
120 minute summer	INLET	1.003	SLURRY PIT	15.3	0.682	0.316	0.8744	30.4

Results for 2 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S1	64	33.483	0.058	10.5	0.3294	0.0000	OK
120 minute winter	S2	64	33.051	0.051	10.5	0.0145	0.0000	OK
120 minute winter	S3	64	32.213	0.063	10.5	0.0179	0.0000	OK
120 minute winter	SLURRY PIT	64	32.077	0.077	25.9	0.0000	0.0000	OK
120 minute winter	INLET	64	32.173	0.098	10.5	0.1112	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	S1	1.000	S2	10.5	1.197	0.078	0.2542	
120 minute winter	S2	1.001	S3	10.5	1.127	0.064	0.3648	
120 minute winter	S3	1.002	INLET	10.5	0.689	0.077	0.0772	
120 minute winter	INLET	1.003	SLURRY PIT	10.5	0.613	0.217	0.6695	30.4

Results for 2 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S1	96	33.486	0.061	11.4	0.3433	0.0000	OK
180 minute summer	S2	96	33.053	0.053	11.4	0.0151	0.0000	OK
180 minute summer	S3	96	32.216	0.066	11.4	0.0188	0.0000	OK
180 minute summer	SLURRY PIT	96	32.080	0.080	28.1	0.0000	0.0000	OK
180 minute summer	INLET	96	32.178	0.103	11.4	0.1160	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	S1	1.000	S2	11.4	1.225	0.085	0.2695	
180 minute summer	S2	1.001	S3	11.4	1.146	0.069	0.3895	
180 minute summer	S3	1.002	INLET	11.4	0.702	0.084	0.0821	
180 minute summer	INLET	1.003	SLURRY PIT	11.4	0.628	0.236	0.7103	33.9

Results for 2 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S1	96	33.476	0.051	7.9	0.2860	0.0000	OK
180 minute winter	S2	96	33.044	0.044	7.9	0.0126	0.0000	OK
180 minute winter	S3	96	32.203	0.053	7.9	0.0150	0.0000	OK
180 minute winter	SLURRY PIT	96	32.067	0.067	19.4	0.0000	0.0000	OK
180 minute winter	INLET	96	32.160	0.085	7.9	0.0965	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	S1	1.000	S2	7.9	1.103	0.059	0.2076	
180 minute winter	S2	1.001	S3	7.9	1.063	0.048	0.2908	
180 minute winter	S3	1.002	INLET	7.9	0.644	0.058	0.0623	
180 minute winter	INLET	1.003	SLURRY PIT	7.9	0.564	0.164	0.5476	34.0

Results for 2 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S1	124	33.481	0.056	9.7	0.3158	0.0000	OK
240 minute summer	S2	124	33.049	0.049	9.6	0.0138	0.0000	OK
240 minute summer	S3	124	32.210	0.060	9.6	0.0168	0.0000	OK
240 minute summer	SLURRY PIT	124	32.073	0.073	23.5	0.0000	0.0000	OK
240 minute summer	INLET	124	32.168	0.093	9.5	0.1054	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	S1	1.000	S2	9.6	1.169	0.071	0.2387	
240 minute summer	S2	1.001	S3	9.6	1.108	0.058	0.3380	
240 minute summer	S3	1.002	INLET	9.5	0.674	0.070	0.0714	
240 minute summer	INLET	1.003	SLURRY PIT	9.4	0.594	0.195	0.6191	36.6

Results for 2 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S1	124	33.471	0.046	6.4	0.2574	0.0000	OK
240 minute winter	S2	124	33.040	0.040	6.4	0.0114	0.0000	OK
240 minute winter	S3	124	32.197	0.047	6.4	0.0132	0.0000	OK
240 minute winter	SLURRY PIT	124	32.059	0.059	15.8	0.0000	0.0000	OK
240 minute winter	INLET	124	32.152	0.077	6.4	0.0867	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	S1	1.000	S2	6.4	1.037	0.047	0.1784	
240 minute winter	S2	1.001	S3	6.4	1.016	0.039	0.2454	
240 minute winter	S3	1.002	INLET	6.4	0.611	0.047	0.0530	
240 minute winter	INLET	1.003	SLURRY PIT	6.4	0.531	0.132	0.4686	36.7

Results for 2 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S1	184	33.474	0.049	7.4	0.2760	0.0000	OK
360 minute summer	S2	184	33.043	0.043	7.3	0.0121	0.0000	OK
360 minute summer	S3	184	32.201	0.051	7.3	0.0143	0.0000	OK
360 minute summer	SLURRY PIT	184	32.063	0.063	18.0	0.0000	0.0000	OK
360 minute summer	INLET	184	32.156	0.081	7.2	0.0921	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	S1	1.000	S2	7.3	1.082	0.054	0.1969	
360 minute summer	S2	1.001	S3	7.3	1.047	0.044	0.2728	
360 minute summer	S3	1.002	INLET	7.2	0.632	0.053	0.0583	
360 minute summer	INLET	1.003	SLURRY PIT	7.2	0.549	0.149	0.5114	41.0

Results for 2 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S1	184	33.465	0.040	4.8	0.2238	0.0000	OK
360 minute winter	S2	184	33.035	0.035	4.8	0.0099	0.0000	OK
360 minute winter	S3	184	32.190	0.040	4.8	0.0112	0.0000	OK
360 minute winter	SLURRY PIT	184	32.052	0.052	11.8	0.0000	0.0000	OK
360 minute winter	INLET	184	32.142	0.067	4.8	0.0755	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S1	1.000	S2	4.8	0.952	0.036	0.1457	
360 minute winter	S2	1.001	S3	4.8	0.951	0.029	0.1965	
360 minute winter	S3	1.002	INLET	4.8	0.568	0.035	0.0429	
360 minute winter	INLET	1.003	SLURRY PIT	4.8	0.487	0.099	0.3840	41.0

Results for 2 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S1	248	33.469	0.044	5.8	0.2455	0.0000	OK
480 minute summer	S2	248	33.038	0.038	5.8	0.0109	0.0000	OK
480 minute summer	S3	248	32.194	0.044	5.8	0.0125	0.0000	OK
480 minute summer	SLURRY PIT	248	32.057	0.057	14.3	0.0000	0.0000	OK
480 minute summer	INLET	248	32.148	0.073	5.8	0.0830	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	S1	1.000	S2	5.8	1.008	0.043	0.1668	
480 minute summer	S2	1.001	S3	5.8	0.994	0.035	0.2280	
480 minute summer	S3	1.002	INLET	5.8	0.597	0.043	0.0495	
480 minute summer	INLET	1.003	SLURRY PIT	5.8	0.516	0.120	0.4397	44.2

Results for 2 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S1	248	33.461	0.036	3.9	0.2027	0.0000	OK
480 minute winter	S2	248	33.032	0.032	3.9	0.0090	0.0000	OK
480 minute winter	S3	248	32.185	0.035	3.9	0.0100	0.0000	OK
480 minute winter	SLURRY PIT	248	32.046	0.046	9.5	0.0000	0.0000	OK
480 minute winter	INLET	248	32.136	0.061	3.9	0.0686	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	S1	1.000	S2	3.9	0.896	0.029	0.1263	
480 minute winter	S2	1.001	S3	3.9	0.912	0.024	0.1675	
480 minute winter	S3	1.002	INLET	3.9	0.539	0.029	0.0370	
480 minute winter	INLET	1.003	SLURRY PIT	3.9	0.461	0.081	0.3318	44.2

Results for 2 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S1	315	33.464	0.039	4.7	0.2216	0.0000	OK
600 minute summer	S2	315	33.035	0.035	4.7	0.0098	0.0000	OK
600 minute summer	S3	315	32.189	0.039	4.7	0.0111	0.0000	OK
600 minute summer	SLURRY PIT	315	32.051	0.051	11.6	0.0000	0.0000	OK
600 minute summer	INLET	315	32.141	0.066	4.7	0.0749	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	S1	1.000	S2	4.7	0.946	0.035	0.1438	
600 minute summer	S2	1.001	S3	4.7	0.947	0.029	0.1938	
600 minute summer	S3	1.002	INLET	4.7	0.566	0.035	0.0424	
600 minute summer	INLET	1.003	SLURRY PIT	4.7	0.485	0.097	0.3795	46.3

Results for 2 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S1	315	33.458	0.033	3.2	0.1845	0.0000	OK
600 minute winter	S2	315	33.029	0.029	3.2	0.0082	0.0000	OK
600 minute winter	S3	315	32.182	0.032	3.2	0.0090	0.0000	OK
600 minute winter	SLURRY PIT	315	32.042	0.042	7.9	0.0000	0.0000	OK
600 minute winter	INLET	315	32.130	0.055	3.2	0.0625	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	S1	1.000	S2	3.2	0.844	0.024	0.1098	
600 minute winter	S2	1.001	S3	3.2	0.865	0.019	0.1444	
600 minute winter	S3	1.002	INLET	3.2	0.509	0.023	0.0321	
600 minute winter	INLET	1.003	SLURRY PIT	3.2	0.433	0.066	0.2896	46.8

Results for 2 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S1	375	33.462	0.037	4.2	0.2099	0.0000	OK
720 minute summer	S2	375	33.033	0.033	4.2	0.0093	0.0000	OK
720 minute summer	S3	375	32.187	0.037	4.2	0.0104	0.0000	OK
720 minute summer	SLURRY PIT	375	32.048	0.048	10.4	0.0000	0.0000	OK
720 minute summer	INLET	375	32.138	0.063	4.2	0.0711	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	S1	1.000	S2	4.2	0.915	0.031	0.1329	
720 minute summer	S2	1.001	S3	4.2	0.925	0.026	0.1774	
720 minute summer	S3	1.002	INLET	4.2	0.549	0.031	0.0391	
720 minute summer	INLET	1.003	SLURRY PIT	4.2	0.470	0.087	0.3499	48.6

Results for 2 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S1	375	33.456	0.031	2.8	0.1729	0.0000	OK
720 minute winter	S2	375	33.027	0.027	2.8	0.0077	0.0000	OK
720 minute winter	S3	375	32.180	0.030	2.8	0.0084	0.0000	OK
720 minute winter	SLURRY PIT	375	32.039	0.039	6.9	0.0000	0.0000	OK
720 minute winter	INLET	375	32.127	0.052	2.8	0.0588	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	S1	1.000	S2	2.8	0.811	0.021	0.1000	
720 minute winter	S2	1.001	S3	2.8	0.832	0.017	0.1315	
720 minute winter	S3	1.002	INLET	2.8	0.489	0.021	0.0293	
720 minute winter	INLET	1.003	SLURRY PIT	2.8	0.415	0.058	0.2644	49.1

Results for 2 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S1	495	33.459	0.034	3.5	0.1926	0.0000	OK
960 minute summer	S2	495	33.030	0.030	3.5	0.0085	0.0000	OK
960 minute summer	S3	495	32.183	0.033	3.5	0.0094	0.0000	OK
960 minute summer	SLURRY PIT	495	32.044	0.044	8.6	0.0000	0.0000	OK
960 minute summer	INLET	495	32.133	0.058	3.5	0.0652	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	S1	1.000	S2	3.5	0.868	0.026	0.1170	
960 minute summer	S2	1.001	S3	3.5	0.889	0.021	0.1538	
960 minute summer	S3	1.002	INLET	3.5	0.524	0.026	0.0342	
960 minute summer	INLET	1.003	SLURRY PIT	3.5	0.446	0.073	0.3079	52.6

Results for 2 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S1	495	33.453	0.028	2.3	0.1576	0.0000	OK
960 minute winter	S2	495	33.025	0.025	2.3	0.0070	0.0000	OK
960 minute winter	S3	495	32.177	0.027	2.3	0.0077	0.0000	OK
960 minute winter	SLURRY PIT	495	32.035	0.035	5.7	0.0000	0.0000	OK
960 minute winter	INLET	495	32.122	0.047	2.3	0.0537	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	S1	1.000	S2	2.3	0.768	0.017	0.0872	
960 minute winter	S2	1.001	S3	2.3	0.786	0.014	0.1146	
960 minute winter	S3	1.002	INLET	2.3	0.458	0.017	0.0257	
960 minute winter	INLET	1.003	SLURRY PIT	2.3	0.394	0.048	0.2291	52.9

Results for 2 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S1	750	33.454	0.029	2.5	0.1638	0.0000	OK
1440 minute summer	S2	750	33.026	0.026	2.5	0.0073	0.0000	OK
1440 minute summer	S3	750	32.178	0.028	2.5	0.0080	0.0000	OK
1440 minute summer	SLURRY PIT	750	32.037	0.037	6.2	0.0000	0.0000	OK
1440 minute summer	INLET	750	32.124	0.049	2.5	0.0558	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	S1	1.000	S2	2.5	0.785	0.019	0.0923	
1440 minute summer	S2	1.001	S3	2.5	0.805	0.015	0.1214	
1440 minute summer	S3	1.002	INLET	2.5	0.471	0.018	0.0272	
1440 minute summer	INLET	1.003	SLURRY PIT	2.5	0.403	0.052	0.2434	57.4

Results for 2 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S1	750	33.449	0.024	1.7	0.1364	0.0000	OK
1440 minute winter	S2	750	33.022	0.022	1.7	0.0061	0.0000	OK
1440 minute winter	S3	750	32.174	0.024	1.7	0.0067	0.0000	OK
1440 minute winter	SLURRY PIT	750	32.030	0.030	4.2	0.0000	0.0000	OK
1440 minute winter	INLET	750	32.116	0.041	1.7	0.0468	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	S1	1.000	S2	1.7	0.697	0.013	0.0706	
1440 minute winter	S2	1.001	S3	1.7	0.713	0.010	0.0931	
1440 minute winter	S3	1.002	INLET	1.7	0.416	0.012	0.0210	
1440 minute winter	INLET	1.003	SLURRY PIT	1.7	0.360	0.035	0.1856	57.9

Results for 2 year 2160 minute summer. 2400 minute analysis at 60 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	S1	1140	33.450	0.025	1.8	0.1401	0.0000	OK
2160 minute summer	S2	1140	33.022	0.022	1.8	0.0063	0.0000	OK
2160 minute summer	S3	1140	32.174	0.024	1.8	0.0068	0.0000	OK
2160 minute summer	SLURRY PIT	1140	32.031	0.031	4.4	0.0000	0.0000	OK
2160 minute summer	INLET	1140	32.117	0.042	1.8	0.0481	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	S1	1.000	S2	1.8	0.709	0.013	0.0735	
2160 minute summer	S2	1.001	S3	1.8	0.726	0.011	0.0969	
2160 minute summer	S3	1.002	INLET	1.8	0.424	0.013	0.0218	
2160 minute summer	INLET	1.003	SLURRY PIT	1.8	0.366	0.037	0.1930	65.0

Results for 2 year 2160 minute winter. 2400 minute analysis at 60 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute winter	S1	1080	33.446	0.021	1.2	0.1165	0.0000	OK
2160 minute winter	S2	1080	33.018	0.018	1.2	0.0052	0.0000	OK
2160 minute winter	S3	1080	32.170	0.020	1.2	0.0057	0.0000	OK
2160 minute winter	SLURRY PIT	1080	32.026	0.026	3.0	0.0000	0.0000	OK
2160 minute winter	INLET	1080	32.110	0.035	1.2	0.0400	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute winter	S1	1.000	S2	1.2	0.629	0.009	0.0556	
2160 minute winter	S2	1.001	S3	1.2	0.641	0.007	0.0732	
2160 minute winter	S3	1.002	INLET	1.2	0.370	0.009	0.0166	
2160 minute winter	INLET	1.003	SLURRY PIT	1.2	0.321	0.025	0.1467	63.8

Results for 2 year 2880 minute summer. 3120 minute analysis at 60 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute summer	S1	1500	33.448	0.023	1.5	0.1287	0.0000	OK
2880 minute summer	S2	1500	33.020	0.020	1.5	0.0058	0.0000	OK
2880 minute summer	S3	1500	32.172	0.022	1.5	0.0063	0.0000	OK
2880 minute summer	SLURRY PIT	1500	32.028	0.028	3.7	0.0000	0.0000	OK
2880 minute summer	INLET	1500	32.114	0.039	1.5	0.0443	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	S1	1.000	S2	1.5	0.670	0.011	0.0648	
2880 minute summer	S2	1.001	S3	1.5	0.686	0.009	0.0854	
2880 minute summer	S3	1.002	INLET	1.5	0.399	0.011	0.0193	
2880 minute summer	INLET	1.003	SLURRY PIT	1.5	0.346	0.031	0.1706	68.9

Results for 2 year 2880 minute winter. 3120 minute analysis at 60 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute winter	S1	1440	33.444	0.019	1.0	0.1068	0.0000	OK
2880 minute winter	S2	1440	33.017	0.017	1.0	0.0048	0.0000	OK
2880 minute winter	S3	1440	32.168	0.018	1.0	0.0052	0.0000	OK
2880 minute winter	SLURRY PIT	1440	32.023	0.023	2.5	0.0000	0.0000	OK
2880 minute winter	INLET	1440	32.108	0.033	1.0	0.0371	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute winter	S1	1.000	S2	1.0	0.592	0.007	0.0489	
2880 minute winter	S2	1.001	S3	1.0	0.605	0.006	0.0645	
2880 minute winter	S3	1.002	INLET	1.0	0.348	0.007	0.0148	
2880 minute winter	INLET	1.003	SLURRY PIT	1.0	0.307	0.021	0.1282	69.9

Results for 30 year +35% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	10	33.621	0.196	91.1	1.1031	0.0000	OK
15 minute summer	S2	10	33.156	0.156	90.1	0.0442	0.0000	OK
15 minute summer	S3	11	32.597	0.447	89.5	0.1264	0.0000	SURCHARGED
15 minute summer	SLURRY PIT	11	32.233	0.233	216.7	0.0000	0.0000	OK
15 minute summer	INLET	11	32.522	0.447	89.2	0.5060	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S1	1.000	S2	90.1	2.101	0.669	1.2404	
15 minute summer	S2	1.001	S3	89.5	1.622	0.544	2.0981	
15 minute summer	S3	1.002	INLET	89.2	1.267	0.655	0.3527	
15 minute summer	INLET	1.003	SLURRY PIT	89.4	1.302	1.852	2.5158	39.4

Results for 30 year +35% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	33.612	0.187	85.5	1.0545	0.0000	OK
15 minute winter	S2	10	33.150	0.150	84.3	0.0424	0.0000	OK
15 minute winter	S3	11	32.548	0.398	83.5	0.1128	0.0000	SURCHARGED
15 minute winter	SLURRY PIT	11	32.226	0.226	201.7	0.0000	0.0000	OK
15 minute winter	INLET	11	32.484	0.409	83.3	0.4623	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S1	1.000	S2	84.3	2.071	0.625	1.1774	
15 minute winter	S2	1.001	S3	83.5	1.574	0.508	2.0615	
15 minute winter	S3	1.002	INLET	83.3	1.183	0.612	0.3527	
15 minute winter	INLET	1.003	SLURRY PIT	83.6	1.227	1.732	2.4806	39.5

Results for 30 year +35% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S1	18	33.607	0.182	81.5	1.0258	0.0000	OK
30 minute summer	S2	18	33.148	0.148	81.5	0.0418	0.0000	OK
30 minute summer	S3	18	32.522	0.372	81.5	0.1054	0.0000	SURCHARGED
30 minute summer	SLURRY PIT	19	32.221	0.221	198.4	0.0000	0.0000	OK
30 minute summer	INLET	18	32.462	0.387	80.4	0.4371	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S1	1.000	S2	81.5	2.057	0.605	1.1469	
30 minute summer	S2	1.001	S3	81.5	1.551	0.496	2.0493	
30 minute summer	S3	1.002	INLET	80.4	1.142	0.591	0.3527	
30 minute summer	INLET	1.003	SLURRY PIT	80.3	1.185	1.664	2.4580	51.4

Results for 30 year +35% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S1	18	33.583	0.158	65.8	0.8937	0.0000	OK
30 minute winter	S2	18	33.131	0.131	65.8	0.0370	0.0000	OK
30 minute winter	S3	19	32.409	0.259	65.8	0.0733	0.0000	OK
30 minute winter	SLURRY PIT	19	32.199	0.199	159.8	0.0000	0.0000	OK
30 minute winter	INLET	19	32.380	0.305	64.5	0.3447	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	S1	1.000	S2	65.8	1.959	0.488	0.9730	
30 minute winter	S2	1.001	S3	65.8	1.499	0.400	1.8255	
30 minute winter	S3	1.002	INLET	64.5	0.960	0.474	0.3383	
30 minute winter	INLET	1.003	SLURRY PIT	64.7	1.026	1.342	2.3365	51.4

Results for 30 year +35% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S1	33	33.575	0.150	60.4	0.8479	0.0000	OK
60 minute summer	S2	33	33.125	0.125	60.4	0.0353	0.0000	OK
60 minute summer	S3	34	32.377	0.227	60.4	0.0642	0.0000	OK
60 minute summer	SLURRY PIT	34	32.190	0.190	147.2	0.0000	0.0000	OK
60 minute summer	INLET	34	32.355	0.280	59.6	0.3170	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	S1	1.000	S2	60.4	1.919	0.448	0.9119	
60 minute summer	S2	1.001	S3	60.4	1.484	0.368	1.6482	
60 minute summer	S3	1.002	INLET	59.6	0.952	0.438	0.3146	
60 minute summer	INLET	1.003	SLURRY PIT	59.7	1.007	1.237	2.2522	64.0

Results for 30 year +35% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S1	33	33.549	0.124	43.7	0.7010	0.0000	OK
60 minute winter	S2	33	33.105	0.105	43.7	0.0296	0.0000	OK
60 minute winter	S3	33	32.316	0.166	43.7	0.0470	0.0000	OK
60 minute winter	SLURRY PIT	34	32.161	0.161	107.2	0.0000	0.0000	OK
60 minute winter	INLET	34	32.295	0.220	43.6	0.2483	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	S1	1.000	S2	43.7	1.770	0.324	0.7155	
60 minute winter	S2	1.001	S3	43.7	1.426	0.266	1.2081	
60 minute winter	S3	1.002	INLET	43.6	0.912	0.320	0.2384	
60 minute winter	INLET	1.003	SLURRY PIT	43.6	0.924	0.903	1.8295	64.1

Results for 30 year +35% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S1	64	33.541	0.116	38.9	0.6562	0.0000	OK
120 minute summer	S2	64	33.099	0.099	38.9	0.0279	0.0000	OK
120 minute summer	S3	64	32.302	0.152	38.9	0.0429	0.0000	OK
120 minute summer	SLURRY PIT	64	32.152	0.152	95.7	0.0000	0.0000	OK
120 minute summer	INLET	64	32.279	0.204	38.9	0.2302	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	S1	1.000	S2	38.9	1.717	0.289	0.6564	
120 minute summer	S2	1.001	S3	38.9	1.412	0.237	1.0889	
120 minute summer	S3	1.002	INLET	38.9	0.896	0.286	0.2167	
120 minute summer	INLET	1.003	SLURRY PIT	38.9	0.894	0.805	1.6894	77.3

Results for 30 year +35% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S1	64	33.520	0.095	26.8	0.5352	0.0000	OK
120 minute winter	S2	64	33.081	0.081	26.8	0.0230	0.0000	OK
120 minute winter	S3	64	32.265	0.115	26.8	0.0326	0.0000	OK
120 minute winter	SLURRY PIT	64	32.125	0.125	65.9	0.0000	0.0000	OK
120 minute winter	INLET	64	32.237	0.162	26.8	0.1838	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	S1	1.000	S2	26.8	1.556	0.199	0.4994	
120 minute winter	S2	1.001	S3	26.8	1.339	0.163	0.7867	
120 minute winter	S3	1.002	INLET	26.8	0.841	0.197	0.1599	
120 minute winter	INLET	1.003	SLURRY PIT	26.8	0.803	0.555	1.3006	77.4

Results for 30 year +35% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S1	96	33.523	0.098	28.7	0.5554	0.0000	OK
180 minute summer	S2	96	33.084	0.084	28.7	0.0238	0.0000	OK
180 minute summer	S3	96	32.271	0.121	28.7	0.0342	0.0000	OK
180 minute summer	SLURRY PIT	96	32.130	0.130	70.6	0.0000	0.0000	OK
180 minute summer	INLET	96	32.244	0.169	28.7	0.1912	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	S1	1.000	S2	28.7	1.585	0.213	0.5250	
180 minute summer	S2	1.001	S3	28.7	1.356	0.175	0.8342	
180 minute summer	S3	1.002	INLET	28.7	0.851	0.211	0.1689	
180 minute summer	INLET	1.003	SLURRY PIT	28.7	0.819	0.595	1.3654	85.3

Results for 30 year +35% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S1	96	33.506	0.081	19.7	0.4547	0.0000	OK
180 minute winter	S2	96	33.070	0.070	19.7	0.0197	0.0000	OK
180 minute winter	S3	96	32.244	0.094	19.7	0.0265	0.0000	OK
180 minute winter	SLURRY PIT	96	32.107	0.107	48.5	0.0000	0.0000	OK
180 minute winter	INLET	96	32.212	0.137	19.7	0.1547	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	S1	1.000	S2	19.7	1.430	0.146	0.3993	
180 minute winter	S2	1.001	S3	19.7	1.272	0.120	0.6078	
180 minute winter	S3	1.002	INLET	19.7	0.791	0.145	0.1253	
180 minute winter	INLET	1.003	SLURRY PIT	19.7	0.735	0.408	1.0466	85.4

Results for 30 year +35% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S1	124	33.514	0.089	24.0	0.5036	0.0000	OK
240 minute summer	S2	124	33.077	0.077	23.9	0.0216	0.0000	OK
240 minute summer	S3	124	32.256	0.106	23.8	0.0299	0.0000	OK
240 minute summer	SLURRY PIT	124	32.117	0.117	58.5	0.0000	0.0000	OK
240 minute summer	INLET	124	32.226	0.151	23.6	0.1706	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	S1	1.000	S2	23.9	1.508	0.177	0.4587	
240 minute summer	S2	1.001	S3	23.8	1.316	0.145	0.7091	
240 minute summer	S3	1.002	INLET	23.6	0.822	0.174	0.1444	
240 minute summer	INLET	1.003	SLURRY PIT	23.5	0.772	0.486	1.1856	91.2

Results for 30 year +35% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S1	124	33.497	0.072	16.0	0.4081	0.0000	OK
240 minute winter	S2	124	33.063	0.063	16.0	0.0177	0.0000	OK
240 minute winter	S3	124	32.232	0.082	16.0	0.0231	0.0000	OK
240 minute winter	SLURRY PIT	124	32.095	0.095	39.2	0.0000	0.0000	OK
240 minute winter	INLET	124	32.197	0.122	15.9	0.1379	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	S1	1.000	S2	16.0	1.349	0.118	0.3432	
240 minute winter	S2	1.001	S3	16.0	1.225	0.097	0.5110	
240 minute winter	S3	1.002	INLET	15.9	0.756	0.117	0.1061	
240 minute winter	INLET	1.003	SLURRY PIT	15.9	0.691	0.329	0.8986	91.4

Results for 30 year +35% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S1	184	33.502	0.077	18.0	0.4330	0.0000	OK
360 minute summer	S2	184	33.066	0.066	17.9	0.0187	0.0000	OK
360 minute summer	S3	184	32.238	0.088	17.8	0.0248	0.0000	OK
360 minute summer	SLURRY PIT	184	32.100	0.100	43.9	0.0000	0.0000	OK
360 minute summer	INLET	184	32.204	0.129	17.7	0.1456	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	S1	1.000	S2	17.9	1.393	0.133	0.3722	
360 minute summer	S2	1.001	S3	17.8	1.252	0.108	0.5579	
360 minute summer	S3	1.002	INLET	17.7	0.775	0.130	0.1151	
360 minute summer	INLET	1.003	SLURRY PIT	17.6	0.710	0.364	0.9654	100.1

Results for 30 year +35% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S1	184	33.487	0.062	11.7	0.3476	0.0000	OK
360 minute winter	S2	184	33.054	0.054	11.7	0.0152	0.0000	OK
360 minute winter	S3	184	32.217	0.067	11.7	0.0190	0.0000	OK
360 minute winter	SLURRY PIT	184	32.081	0.081	28.7	0.0000	0.0000	OK
360 minute winter	INLET	184	32.179	0.104	11.7	0.1173	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S1	1.000	S2	11.7	1.235	0.087	0.2743	
360 minute winter	S2	1.001	S3	11.7	1.152	0.071	0.3969	
360 minute winter	S3	1.002	INLET	11.7	0.706	0.086	0.0835	
360 minute winter	INLET	1.003	SLURRY PIT	11.6	0.632	0.241	0.7207	100.3

Results for 30 year +35% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S1	248	33.493	0.068	14.0	0.3811	0.0000	OK
480 minute summer	S2	248	33.059	0.059	14.0	0.0166	0.0000	OK
480 minute summer	S3	248	32.225	0.075	14.0	0.0213	0.0000	OK
480 minute summer	SLURRY PIT	248	32.089	0.089	34.5	0.0000	0.0000	OK
480 minute summer	INLET	248	32.189	0.114	14.0	0.1289	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	S1	1.000	S2	14.0	1.300	0.104	0.3121	
480 minute summer	S2	1.001	S3	14.0	1.194	0.085	0.4598	
480 minute summer	S3	1.002	INLET	14.0	0.735	0.103	0.0961	
480 minute summer	INLET	1.003	SLURRY PIT	14.0	0.666	0.290	0.8210	106.7

Results for 30 year +35% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S1	248	33.480	0.055	9.3	0.3102	0.0000	OK
480 minute winter	S2	248	33.048	0.048	9.3	0.0136	0.0000	OK
480 minute winter	S3	248	32.209	0.059	9.3	0.0166	0.0000	OK
480 minute winter	SLURRY PIT	248	32.072	0.072	22.9	0.0000	0.0000	OK
480 minute winter	INLET	248	32.168	0.093	9.3	0.1046	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	S1	1.000	S2	9.3	1.156	0.069	0.2332	
480 minute winter	S2	1.001	S3	9.3	1.100	0.057	0.3311	
480 minute winter	S3	1.002	INLET	9.3	0.669	0.068	0.0704	
480 minute winter	INLET	1.003	SLURRY PIT	9.3	0.593	0.193	0.6136	106.9

Results for 30 year +35% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S1	315	33.486	0.061	11.4	0.3433	0.0000	OK
600 minute summer	S2	315	33.053	0.053	11.4	0.0151	0.0000	OK
600 minute summer	S3	315	32.216	0.066	11.4	0.0188	0.0000	OK
600 minute summer	SLURRY PIT	315	32.080	0.080	28.1	0.0000	0.0000	OK
600 minute summer	INLET	315	32.178	0.103	11.4	0.1160	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	S1	1.000	S2	11.4	1.225	0.085	0.2695	
600 minute summer	S2	1.001	S3	11.4	1.146	0.069	0.3895	
600 minute summer	S3	1.002	INLET	11.4	0.702	0.084	0.0821	
600 minute summer	INLET	1.003	SLURRY PIT	11.4	0.628	0.236	0.7102	112.0

Results for 30 year +35% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S1	315	33.475	0.050	7.8	0.2842	0.0000	OK
600 minute winter	S2	315	33.044	0.044	7.8	0.0125	0.0000	OK
600 minute winter	S3	315	32.203	0.053	7.8	0.0149	0.0000	OK
600 minute winter	SLURRY PIT	315	32.066	0.066	19.2	0.0000	0.0000	OK
600 minute winter	INLET	315	32.160	0.085	7.8	0.0959	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	S1	1.000	S2	7.8	1.099	0.058	0.2058	
600 minute winter	S2	1.001	S3	7.8	1.060	0.047	0.2878	
600 minute winter	S3	1.002	INLET	7.8	0.642	0.057	0.0617	
600 minute winter	INLET	1.003	SLURRY PIT	7.8	0.562	0.162	0.5429	112.4

Results for 30 year +35% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S1	375	33.482	0.057	10.1	0.3231	0.0000	OK
720 minute summer	S2	375	33.050	0.050	10.1	0.0142	0.0000	OK
720 minute summer	S3	375	32.212	0.062	10.1	0.0174	0.0000	OK
720 minute summer	SLURRY PIT	375	32.076	0.076	24.9	0.0000	0.0000	OK
720 minute summer	INLET	375	32.171	0.096	10.1	0.1091	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	S1	1.000	S2	10.1	1.184	0.075	0.2473	
720 minute summer	S2	1.001	S3	10.1	1.118	0.061	0.3537	
720 minute summer	S3	1.002	INLET	10.1	0.683	0.074	0.0750	
720 minute summer	INLET	1.003	SLURRY PIT	10.1	0.607	0.209	0.6512	116.5

Results for 30 year +35% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S1	375	33.472	0.047	6.8	0.2655	0.0000	OK
720 minute winter	S2	375	33.041	0.041	6.8	0.0117	0.0000	OK
720 minute winter	S3	375	32.199	0.049	6.8	0.0138	0.0000	OK
720 minute winter	SLURRY PIT	375	32.062	0.062	16.7	0.0000	0.0000	OK
720 minute winter	INLET	375	32.154	0.079	6.8	0.0896	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	S1	1.000	S2	6.8	1.056	0.050	0.1866	
720 minute winter	S2	1.001	S3	6.8	1.030	0.041	0.2583	
720 minute winter	S3	1.002	INLET	6.8	0.621	0.050	0.0557	
720 minute winter	INLET	1.003	SLURRY PIT	6.8	0.541	0.141	0.4917	116.8

Results for 30 year +35% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S1	495	33.477	0.052	8.2	0.2914	0.0000	OK
960 minute summer	S2	495	33.045	0.045	8.2	0.0128	0.0000	OK
960 minute summer	S3	495	32.204	0.054	8.2	0.0154	0.0000	OK
960 minute summer	SLURRY PIT	495	32.068	0.068	20.2	0.0000	0.0000	OK
960 minute summer	INLET	495	32.162	0.087	8.2	0.0983	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	S1	1.000	S2	8.2	1.115	0.061	0.2132	
960 minute summer	S2	1.001	S3	8.2	1.071	0.050	0.2996	
960 minute summer	S3	1.002	INLET	8.2	0.650	0.060	0.0641	
960 minute summer	INLET	1.003	SLURRY PIT	8.2	0.571	0.170	0.5619	123.9

Results for 30 year +35% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S1	495	33.467	0.042	5.4	0.2371	0.0000	OK
960 minute winter	S2	495	33.037	0.037	5.4	0.0105	0.0000	OK
960 minute winter	S3	495	32.192	0.042	5.4	0.0120	0.0000	OK
960 minute winter	SLURRY PIT	495	32.055	0.055	13.3	0.0000	0.0000	OK
960 minute winter	INLET	495	32.146	0.071	5.4	0.0801	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	S1	1.000	S2	5.4	0.988	0.040	0.1587	
960 minute winter	S2	1.001	S3	5.4	0.980	0.033	0.2157	
960 minute winter	S3	1.002	INLET	5.4	0.586	0.040	0.0470	
960 minute winter	INLET	1.003	SLURRY PIT	5.4	0.505	0.112	0.4185	124.6

Results for 30 year +35% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S1	750	33.469	0.044	5.9	0.2475	0.0000	OK
1440 minute summer	S2	750	33.039	0.039	5.9	0.0109	0.0000	OK
1440 minute summer	S3	750	32.195	0.045	5.9	0.0127	0.0000	OK
1440 minute summer	SLURRY PIT	750	32.057	0.057	14.5	0.0000	0.0000	OK
1440 minute summer	INLET	750	32.149	0.074	5.9	0.0837	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	S1	1.000	S2	5.9	1.013	0.044	0.1688	
1440 minute summer	S2	1.001	S3	5.9	0.998	0.036	0.2311	
1440 minute summer	S3	1.002	INLET	5.9	0.599	0.043	0.0501	
1440 minute summer	INLET	1.003	SLURRY PIT	5.9	0.519	0.122	0.4449	135.1

Results for 30 year +35% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S1	750	33.461	0.036	3.9	0.2027	0.0000	OK
1440 minute winter	S2	750	33.032	0.032	3.9	0.0090	0.0000	OK
1440 minute winter	S3	750	32.185	0.035	3.9	0.0100	0.0000	OK
1440 minute winter	SLURRY PIT	750	32.046	0.046	9.7	0.0000	0.0000	OK
1440 minute winter	INLET	750	32.136	0.061	3.9	0.0686	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	S1	1.000	S2	3.9	0.896	0.029	0.1263	
1440 minute winter	S2	1.001	S3	3.9	0.912	0.024	0.1675	
1440 minute winter	S3	1.002	INLET	3.9	0.539	0.029	0.0370	
1440 minute winter	INLET	1.003	SLURRY PIT	3.9	0.461	0.081	0.3318	135.3

Results for 30 year +35% CC 2160 minute summer. 2400 minute analysis at 60 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	S1	1140	33.462	0.037	4.1	0.2075	0.0000	OK
2160 minute summer	S2	1140	33.033	0.033	4.1	0.0092	0.0000	OK
2160 minute summer	S3	1140	32.186	0.036	4.1	0.0102	0.0000	OK
2160 minute summer	SLURRY PIT	1140	32.047	0.047	10.1	0.0000	0.0000	OK
2160 minute summer	INLET	1140	32.137	0.062	4.1	0.0703	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	S1	1.000	S2	4.1	0.909	0.030	0.1307	
2160 minute summer	S2	1.001	S3	4.1	0.920	0.025	0.1741	
2160 minute summer	S3	1.002	INLET	4.1	0.546	0.030	0.0384	
2160 minute summer	INLET	1.003	SLURRY PIT	4.1	0.467	0.085	0.3439	146.5

Results for 30 year +35% CC 2160 minute winter. 2400 minute analysis at 60 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute winter	S1	1140	33.456	0.031	2.8	0.1729	0.0000	OK
2160 minute winter	S2	1140	33.027	0.027	2.8	0.0077	0.0000	OK
2160 minute winter	S3	1140	32.180	0.030	2.8	0.0084	0.0000	OK
2160 minute winter	SLURRY PIT	1140	32.039	0.039	7.0	0.0000	0.0000	OK
2160 minute winter	INLET	1140	32.127	0.052	2.8	0.0588	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute winter	S1	1.000	S2	2.8	0.811	0.021	0.1000	
2160 minute winter	S2	1.001	S3	2.8	0.832	0.017	0.1315	
2160 minute winter	S3	1.002	INLET	2.8	0.489	0.021	0.0293	
2160 minute winter	INLET	1.003	SLURRY PIT	2.8	0.415	0.058	0.2644	147.4

Results for 30 year +35% CC 2880 minute summer. 3120 minute analysis at 60 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute summer	S1	1500	33.459	0.034	3.4	0.1899	0.0000	OK
2880 minute summer	S2	1500	33.030	0.030	3.4	0.0084	0.0000	OK
2880 minute summer	S3	1500	32.183	0.033	3.4	0.0092	0.0000	OK
2880 minute summer	SLURRY PIT	1500	32.043	0.043	8.4	0.0000	0.0000	OK
2880 minute summer	INLET	1500	32.132	0.057	3.4	0.0643	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	S1	1.000	S2	3.4	0.860	0.025	0.1146	
2880 minute summer	S2	1.001	S3	3.4	0.881	0.021	0.1506	
2880 minute summer	S3	1.002	INLET	3.4	0.519	0.025	0.0335	
2880 minute summer	INLET	1.003	SLURRY PIT	3.4	0.442	0.070	0.3018	155.4

Results for 30 year +35% CC 2880 minute winter. 3120 minute analysis at 60 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute winter	S1	1500	33.453	0.028	2.3	0.1576	0.0000	OK
2880 minute winter	S2	1500	33.025	0.025	2.3	0.0070	0.0000	OK
2880 minute winter	S3	1500	32.177	0.027	2.3	0.0077	0.0000	OK
2880 minute winter	SLURRY PIT	1500	32.035	0.035	5.6	0.0000	0.0000	OK
2880 minute winter	INLET	1500	32.122	0.047	2.3	0.0537	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute winter	S1	1.000	S2	2.3	0.768	0.017	0.0872	
2880 minute winter	S2	1.001	S3	2.3	0.786	0.014	0.1146	
2880 minute winter	S3	1.002	INLET	2.3	0.458	0.017	0.0257	
2880 minute winter	INLET	1.003	SLURRY PIT	2.3	0.394	0.048	0.2291	156.0

Results for 100 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	10	33.615	0.190	87.6	1.0736	0.0000	OK
15 minute summer	S2	10	33.153	0.153	86.7	0.0432	0.0000	OK
15 minute summer	S3	11	32.568	0.418	86.0	0.1184	0.0000	SURCHARGED
15 minute summer	SLURRY PIT	11	32.229	0.229	208.2	0.0000	0.0000	OK
15 minute summer	INLET	11	32.499	0.424	85.8	0.4801	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S1	1.000	S2	86.7	2.084	0.643	1.2031	
15 minute summer	S2	1.001	S3	86.0	1.614	0.523	2.0771	
15 minute summer	S3	1.002	INLET	85.8	1.218	0.630	0.3527	
15 minute summer	INLET	1.003	SLURRY PIT	85.9	1.258	1.781	2.4951	37.9

Results for 100 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	33.607	0.182	82.2	1.0269	0.0000	OK
15 minute winter	S2	10	33.146	0.146	81.1	0.0414	0.0000	OK
15 minute winter	S3	11	32.523	0.373	80.3	0.1056	0.0000	SURCHARGED
15 minute winter	SLURRY PIT	11	32.221	0.221	193.6	0.0000	0.0000	OK
15 minute winter	INLET	11	32.463	0.388	80.1	0.4390	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S1	1.000	S2	81.1	2.054	0.601	1.1420	
15 minute winter	S2	1.001	S3	80.3	1.568	0.488	2.0415	
15 minute winter	S3	1.002	INLET	80.1	1.137	0.588	0.3527	
15 minute winter	INLET	1.003	SLURRY PIT	80.3	1.185	1.664	2.4580	37.9

Results for 100 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S1	18	33.603	0.178	79.0	1.0046	0.0000	OK
30 minute summer	S2	18	33.145	0.145	79.0	0.0411	0.0000	OK
30 minute summer	S3	18	32.503	0.353	79.0	0.0998	0.0000	SURCHARGED
30 minute summer	SLURRY PIT	19	32.218	0.218	192.1	0.0000	0.0000	OK
30 minute summer	INLET	18	32.445	0.370	77.9	0.4189	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S1	1.000	S2	79.0	2.043	0.586	1.1194	
30 minute summer	S2	1.001	S3	79.0	1.551	0.481	2.0337	
30 minute summer	S3	1.002	INLET	77.9	1.106	0.572	0.3527	
30 minute summer	INLET	1.003	SLURRY PIT	77.8	1.154	1.613	2.4401	49.8

Results for 100 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S1	18	33.581	0.156	63.8	0.8769	0.0000	OK
30 minute winter	S2	18	33.129	0.129	63.8	0.0364	0.0000	OK
30 minute winter	S3	19	32.395	0.245	63.8	0.0693	0.0000	OK
30 minute winter	SLURRY PIT	19	32.195	0.195	155.2	0.0000	0.0000	OK
30 minute winter	INLET	19	32.370	0.295	62.8	0.3338	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	S1	1.000	S2	63.8	1.944	0.473	0.9505	
30 minute winter	S2	1.001	S3	63.8	1.495	0.388	1.7517	
30 minute winter	S3	1.002	INLET	62.8	0.956	0.461	0.3298	
30 minute winter	INLET	1.003	SLURRY PIT	62.9	1.019	1.303	2.3148	49.9

Results for 100 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S1	33	33.573	0.148	58.8	0.8343	0.0000	OK
60 minute summer	S2	33	33.123	0.123	58.8	0.0348	0.0000	OK
60 minute summer	S3	34	32.370	0.220	58.8	0.0621	0.0000	OK
60 minute summer	SLURRY PIT	34	32.188	0.188	143.4	0.0000	0.0000	OK
60 minute summer	INLET	34	32.349	0.274	58.1	0.3095	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	S1	1.000	S2	58.8	1.907	0.436	0.8936	
60 minute summer	S2	1.001	S3	58.8	1.482	0.358	1.6025	
60 minute summer	S3	1.002	INLET	58.1	0.949	0.427	0.3071	
60 minute summer	INLET	1.003	SLURRY PIT	58.2	1.001	1.205	2.2173	62.4

Results for 100 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S1	33	33.547	0.122	42.5	0.6900	0.0000	OK
60 minute winter	S2	33	33.103	0.103	42.5	0.0292	0.0000	OK
60 minute winter	S3	33	32.312	0.162	42.5	0.0459	0.0000	OK
60 minute winter	SLURRY PIT	34	32.159	0.159	104.3	0.0000	0.0000	OK
60 minute winter	INLET	34	32.291	0.216	42.4	0.2438	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	S1	1.000	S2	42.5	1.757	0.315	0.7009	
60 minute winter	S2	1.001	S3	42.5	1.422	0.259	1.1778	
60 minute winter	S3	1.002	INLET	42.4	0.909	0.311	0.2329	
60 minute winter	INLET	1.003	SLURRY PIT	42.4	0.917	0.879	1.7955	62.4

Results for 100 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S1	64	33.540	0.115	37.9	0.6467	0.0000	OK
120 minute summer	S2	64	33.097	0.097	37.9	0.0275	0.0000	OK
120 minute summer	S3	64	32.298	0.148	37.9	0.0420	0.0000	OK
120 minute summer	SLURRY PIT	64	32.150	0.150	93.2	0.0000	0.0000	OK
120 minute summer	INLET	64	32.275	0.200	37.9	0.2264	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	S1	1.000	S2	37.9	1.706	0.281	0.6439	
120 minute summer	S2	1.001	S3	37.9	1.408	0.231	1.0637	
120 minute summer	S3	1.002	INLET	37.9	0.892	0.278	0.2121	
120 minute summer	INLET	1.003	SLURRY PIT	37.9	0.887	0.785	1.6592	75.2

Results for 100 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S1	64	33.519	0.094	26.1	0.5277	0.0000	OK
120 minute winter	S2	64	33.080	0.080	26.1	0.0227	0.0000	OK
120 minute winter	S3	64	32.263	0.113	26.1	0.0320	0.0000	OK
120 minute winter	SLURRY PIT	64	32.123	0.123	64.2	0.0000	0.0000	OK
120 minute winter	INLET	64	32.235	0.160	26.1	0.1810	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	S1	1.000	S2	26.1	1.545	0.194	0.4898	
120 minute winter	S2	1.001	S3	26.1	1.333	0.159	0.7692	
120 minute winter	S3	1.002	INLET	26.1	0.836	0.192	0.1565	
120 minute winter	INLET	1.003	SLURRY PIT	26.1	0.797	0.541	1.2767	75.4

Results for 100 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S1	96	33.522	0.097	27.8	0.5459	0.0000	OK
180 minute summer	S2	96	33.083	0.083	27.8	0.0234	0.0000	OK
180 minute summer	S3	96	32.268	0.118	27.8	0.0335	0.0000	OK
180 minute summer	SLURRY PIT	96	32.128	0.128	68.5	0.0000	0.0000	OK
180 minute summer	INLET	96	32.241	0.166	27.8	0.1877	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	S1	1.000	S2	27.8	1.571	0.206	0.5130	
180 minute summer	S2	1.001	S3	27.8	1.349	0.169	0.8117	
180 minute summer	S3	1.002	INLET	27.8	0.847	0.204	0.1646	
180 minute summer	INLET	1.003	SLURRY PIT	27.8	0.812	0.576	1.3348	82.8

Results for 100 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S1	96	33.504	0.079	19.1	0.4475	0.0000	OK
180 minute winter	S2	96	33.069	0.069	19.1	0.0194	0.0000	OK
180 minute winter	S3	96	32.242	0.092	19.1	0.0260	0.0000	OK
180 minute winter	SLURRY PIT	96	32.105	0.105	47.1	0.0000	0.0000	OK
180 minute winter	INLET	96	32.209	0.134	19.1	0.1521	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	S1	1.000	S2	19.1	1.418	0.142	0.3905	
180 minute winter	S2	1.001	S3	19.1	1.265	0.116	0.5924	
180 minute winter	S3	1.002	INLET	19.1	0.786	0.140	0.1223	
180 minute winter	INLET	1.003	SLURRY PIT	19.1	0.728	0.396	1.0241	83.0

Results for 100 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S1	124	33.513	0.088	23.2	0.4946	0.0000	OK
240 minute summer	S2	124	33.075	0.075	23.1	0.0213	0.0000	OK
240 minute summer	S3	124	32.253	0.103	23.0	0.0293	0.0000	OK
240 minute summer	SLURRY PIT	124	32.115	0.115	56.6	0.0000	0.0000	OK
240 minute summer	INLET	124	32.223	0.148	22.9	0.1675	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	S1	1.000	S2	23.1	1.494	0.171	0.4476	
240 minute summer	S2	1.001	S3	23.0	1.308	0.140	0.6897	
240 minute summer	S3	1.002	INLET	22.9	0.816	0.168	0.1406	
240 minute summer	INLET	1.003	SLURRY PIT	22.7	0.765	0.470	1.1574	88.2

Results for 100 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S1	124	33.496	0.071	15.4	0.4002	0.0000	OK
240 minute winter	S2	124	33.062	0.062	15.4	0.0174	0.0000	OK
240 minute winter	S3	124	32.230	0.080	15.4	0.0226	0.0000	OK
240 minute winter	SLURRY PIT	124	32.094	0.094	37.8	0.0000	0.0000	OK
240 minute winter	INLET	124	32.195	0.120	15.4	0.1352	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	S1	1.000	S2	15.4	1.335	0.114	0.3340	
240 minute winter	S2	1.001	S3	15.4	1.215	0.093	0.4959	
240 minute winter	S3	1.002	INLET	15.4	0.750	0.113	0.1032	
240 minute winter	INLET	1.003	SLURRY PIT	15.3	0.683	0.318	0.8761	88.3

Results for 100 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S1	184	33.500	0.075	17.3	0.4242	0.0000	OK
360 minute summer	S2	184	33.065	0.065	17.2	0.0184	0.0000	OK
360 minute summer	S3	184	32.235	0.085	17.1	0.0242	0.0000	OK
360 minute summer	SLURRY PIT	184	32.098	0.098	42.2	0.0000	0.0000	OK
360 minute summer	INLET	184	32.201	0.126	17.0	0.1425	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	S1	1.000	S2	17.2	1.378	0.128	0.3617	
360 minute summer	S2	1.001	S3	17.1	1.242	0.104	0.5402	
360 minute summer	S3	1.002	INLET	17.0	0.768	0.125	0.1116	
360 minute summer	INLET	1.003	SLURRY PIT	16.9	0.702	0.350	0.9384	96.0

Results for 100 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S1	184	33.486	0.061	11.3	0.3415	0.0000	OK
360 minute winter	S2	184	33.053	0.053	11.3	0.0150	0.0000	OK
360 minute winter	S3	184	32.216	0.066	11.3	0.0186	0.0000	OK
360 minute winter	SLURRY PIT	184	32.080	0.080	27.6	0.0000	0.0000	OK
360 minute winter	INLET	184	32.177	0.102	11.2	0.1151	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S1	1.000	S2	11.3	1.222	0.084	0.2674	
360 minute winter	S2	1.001	S3	11.3	1.144	0.069	0.3855	
360 minute winter	S3	1.002	INLET	11.2	0.700	0.083	0.0813	
360 minute winter	INLET	1.003	SLURRY PIT	11.2	0.624	0.232	0.7026	96.1

Results for 100 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S1	248	33.491	0.066	13.4	0.3727	0.0000	OK
480 minute summer	S2	248	33.058	0.058	13.4	0.0163	0.0000	OK
480 minute summer	S3	248	32.223	0.073	13.4	0.0208	0.0000	OK
480 minute summer	SLURRY PIT	248	32.087	0.087	33.0	0.0000	0.0000	OK
480 minute summer	INLET	248	32.186	0.111	13.4	0.1260	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	S1	1.000	S2	13.4	1.284	0.099	0.3024	
480 minute summer	S2	1.001	S3	13.4	1.184	0.082	0.4439	
480 minute summer	S3	1.002	INLET	13.4	0.728	0.098	0.0929	
480 minute summer	INLET	1.003	SLURRY PIT	13.4	0.658	0.278	0.7955	102.2

Results for 100 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S1	248	33.479	0.054	8.9	0.3035	0.0000	OK
480 minute winter	S2	248	33.047	0.047	8.9	0.0133	0.0000	OK
480 minute winter	S3	248	32.207	0.057	8.9	0.0162	0.0000	OK
480 minute winter	SLURRY PIT	248	32.071	0.071	21.9	0.0000	0.0000	OK
480 minute winter	INLET	248	32.166	0.091	8.9	0.1024	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	S1	1.000	S2	8.9	1.141	0.066	0.2259	
480 minute winter	S2	1.001	S3	8.9	1.090	0.054	0.3198	
480 minute winter	S3	1.002	INLET	8.9	0.662	0.065	0.0681	
480 minute winter	INLET	1.003	SLURRY PIT	8.9	0.585	0.184	0.5950	102.3

Results for 100 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S1	315	33.485	0.060	10.9	0.3356	0.0000	OK
600 minute summer	S2	315	33.052	0.052	10.9	0.0147	0.0000	OK
600 minute summer	S3	315	32.215	0.065	10.9	0.0183	0.0000	OK
600 minute summer	SLURRY PIT	315	32.079	0.079	26.8	0.0000	0.0000	OK
600 minute summer	INLET	315	32.175	0.100	10.9	0.1134	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	S1	1.000	S2	10.9	1.210	0.081	0.2610	
600 minute summer	S2	1.001	S3	10.9	1.136	0.066	0.3758	
600 minute summer	S3	1.002	INLET	10.9	0.695	0.080	0.0794	
600 minute summer	INLET	1.003	SLURRY PIT	10.9	0.619	0.226	0.6883	106.4

Results for 100 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S1	315	33.474	0.049	7.4	0.2769	0.0000	OK
600 minute winter	S2	315	33.043	0.043	7.4	0.0122	0.0000	OK
600 minute winter	S3	315	32.201	0.051	7.4	0.0145	0.0000	OK
600 minute winter	SLURRY PIT	315	32.064	0.064	18.3	0.0000	0.0000	OK
600 minute winter	INLET	315	32.158	0.083	7.4	0.0934	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	S1	1.000	S2	7.4	1.083	0.055	0.1983	
600 minute winter	S2	1.001	S3	7.4	1.049	0.045	0.2762	
600 minute winter	S3	1.002	INLET	7.4	0.634	0.054	0.0593	
600 minute winter	INLET	1.003	SLURRY PIT	7.4	0.554	0.153	0.5227	107.0

Results for 100 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S1	375	33.481	0.056	9.6	0.3151	0.0000	OK
720 minute summer	S2	375	33.049	0.049	9.6	0.0138	0.0000	OK
720 minute summer	S3	375	32.210	0.060	9.6	0.0169	0.0000	OK
720 minute summer	SLURRY PIT	375	32.074	0.074	23.6	0.0000	0.0000	OK
720 minute summer	INLET	375	32.169	0.094	9.6	0.1063	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	S1	1.000	S2	9.6	1.167	0.071	0.2386	
720 minute summer	S2	1.001	S3	9.6	1.107	0.058	0.3395	
720 minute summer	S3	1.002	INLET	9.6	0.674	0.070	0.0721	
720 minute summer	INLET	1.003	SLURRY PIT	9.6	0.598	0.199	0.6278	110.5

Results for 100 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S1	375	33.471	0.046	6.5	0.2596	0.0000	OK
720 minute winter	S2	375	33.041	0.041	6.5	0.0115	0.0000	OK
720 minute winter	S3	375	32.197	0.047	6.5	0.0134	0.0000	OK
720 minute winter	SLURRY PIT	375	32.060	0.060	15.9	0.0000	0.0000	OK
720 minute winter	INLET	375	32.153	0.078	6.5	0.0877	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	S1	1.000	S2	6.5	1.042	0.048	0.1806	
720 minute winter	S2	1.001	S3	6.5	1.020	0.040	0.2492	
720 minute winter	S3	1.002	INLET	6.5	0.614	0.048	0.0538	
720 minute winter	INLET	1.003	SLURRY PIT	6.5	0.534	0.135	0.4762	110.7

Results for 100 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S1	495	33.475	0.050	7.8	0.2842	0.0000	OK
960 minute summer	S2	495	33.044	0.044	7.8	0.0125	0.0000	OK
960 minute summer	S3	495	32.203	0.053	7.8	0.0149	0.0000	OK
960 minute summer	SLURRY PIT	495	32.066	0.066	19.2	0.0000	0.0000	OK
960 minute summer	INLET	495	32.160	0.085	7.8	0.0959	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	S1	1.000	S2	7.8	1.099	0.058	0.2058	
960 minute summer	S2	1.001	S3	7.8	1.060	0.047	0.2878	
960 minute summer	S3	1.002	INLET	7.8	0.642	0.057	0.0617	
960 minute summer	INLET	1.003	SLURRY PIT	7.8	0.562	0.162	0.5429	117.7

Results for 100 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S1	495	33.466	0.041	5.1	0.2306	0.0000	OK
960 minute winter	S2	495	33.036	0.036	5.1	0.0102	0.0000	OK
960 minute winter	S3	495	32.191	0.041	5.1	0.0116	0.0000	OK
960 minute winter	SLURRY PIT	495	32.053	0.053	12.6	0.0000	0.0000	OK
960 minute winter	INLET	495	32.144	0.069	5.1	0.0779	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	S1	1.000	S2	5.1	0.970	0.038	0.1524	
960 minute winter	S2	1.001	S3	5.1	0.967	0.031	0.2064	
960 minute winter	S3	1.002	INLET	5.1	0.578	0.037	0.0450	
960 minute winter	INLET	1.003	SLURRY PIT	5.1	0.496	0.106	0.4025	117.4

Results for 100 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S1	750	33.467	0.042	5.5	0.2392	0.0000	OK
1440 minute summer	S2	750	33.037	0.037	5.5	0.0106	0.0000	OK
1440 minute summer	S3	750	32.193	0.043	5.5	0.0121	0.0000	OK
1440 minute summer	SLURRY PIT	750	32.055	0.055	13.6	0.0000	0.0000	OK
1440 minute summer	INLET	750	32.146	0.071	5.5	0.0809	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	S1	1.000	S2	5.5	0.993	0.041	0.1607	
1440 minute summer	S2	1.001	S3	5.5	0.984	0.033	0.2188	
1440 minute summer	S3	1.002	INLET	5.5	0.589	0.040	0.0476	
1440 minute summer	INLET	1.003	SLURRY PIT	5.5	0.508	0.114	0.4238	126.5

Results for 100 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S1	750	33.460	0.035	3.7	0.1978	0.0000	OK
1440 minute winter	S2	750	33.031	0.031	3.7	0.0088	0.0000	OK
1440 minute winter	S3	750	32.184	0.034	3.7	0.0097	0.0000	OK
1440 minute winter	SLURRY PIT	750	32.045	0.045	9.1	0.0000	0.0000	OK
1440 minute winter	INLET	750	32.134	0.059	3.7	0.0670	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	S1	1.000	S2	3.7	0.883	0.027	0.1217	
1440 minute winter	S2	1.001	S3	3.7	0.901	0.023	0.1608	
1440 minute winter	S3	1.002	INLET	3.7	0.532	0.027	0.0356	
1440 minute winter	INLET	1.003	SLURRY PIT	3.7	0.453	0.077	0.3198	128.5

Results for 100 year 2160 minute summer. 2400 minute analysis at 60 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	S1	1140	33.461	0.036	3.9	0.2027	0.0000	OK
2160 minute summer	S2	1140	33.032	0.032	3.9	0.0090	0.0000	OK
2160 minute summer	S3	1140	32.185	0.035	3.9	0.0100	0.0000	OK
2160 minute summer	SLURRY PIT	1140	32.046	0.046	9.5	0.0000	0.0000	OK
2160 minute summer	INLET	1140	32.136	0.061	3.9	0.0686	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	S1	1.000	S2	3.9	0.896	0.029	0.1263	
2160 minute summer	S2	1.001	S3	3.9	0.912	0.024	0.1675	
2160 minute summer	S3	1.002	INLET	3.9	0.539	0.029	0.0370	
2160 minute summer	INLET	1.003	SLURRY PIT	3.9	0.461	0.081	0.3318	137.4

Results for 100 year 2160 minute winter. 2400 minute analysis at 60 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute winter	S1	1140	33.455	0.030	2.7	0.1699	0.0000	OK
2160 minute winter	S2	1140	33.027	0.027	2.7	0.0076	0.0000	OK
2160 minute winter	S3	1140	32.179	0.029	2.7	0.0083	0.0000	OK
2160 minute winter	SLURRY PIT	1140	32.039	0.039	6.6	0.0000	0.0000	OK
2160 minute winter	INLET	1140	32.126	0.051	2.7	0.0578	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute winter	S1	1.000	S2	2.7	0.802	0.020	0.0974	
2160 minute winter	S2	1.001	S3	2.7	0.823	0.016	0.1281	
2160 minute winter	S3	1.002	INLET	2.7	0.484	0.020	0.0286	
2160 minute winter	INLET	1.003	SLURRY PIT	2.7	0.411	0.056	0.2575	138.0

Results for 100 year 2880 minute summer. 3120 minute analysis at 60 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute summer	S1	1500	33.458	0.033	3.2	0.1845	0.0000	OK
2880 minute summer	S2	1500	33.029	0.029	3.2	0.0082	0.0000	OK
2880 minute summer	S3	1500	32.182	0.032	3.2	0.0090	0.0000	OK
2880 minute summer	SLURRY PIT	1500	32.042	0.042	7.8	0.0000	0.0000	OK
2880 minute summer	INLET	1500	32.130	0.055	3.2	0.0625	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	S1	1.000	S2	3.2	0.844	0.024	0.1098	
2880 minute summer	S2	1.001	S3	3.2	0.865	0.019	0.1444	
2880 minute summer	S3	1.002	INLET	3.2	0.509	0.023	0.0321	
2880 minute summer	INLET	1.003	SLURRY PIT	3.2	0.433	0.066	0.2896	146.1

Results for 100 year 2880 minute winter. 3120 minute analysis at 60 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute winter	S1	1500	33.452	0.027	2.1	0.1508	0.0000	OK
2880 minute winter	S2	1500	33.024	0.024	2.1	0.0067	0.0000	OK
2880 minute winter	S3	1500	32.176	0.026	2.1	0.0073	0.0000	OK
2880 minute winter	SLURRY PIT	1500	32.034	0.034	5.2	0.0000	0.0000	OK
2880 minute winter	INLET	1500	32.121	0.046	2.1	0.0515	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute winter	S1	1.000	S2	2.1	0.745	0.016	0.0817	
2880 minute winter	S2	1.001	S3	2.1	0.762	0.013	0.1076	
2880 minute winter	S3	1.002	INLET	2.1	0.445	0.015	0.0242	
2880 minute winter	INLET	1.003	SLURRY PIT	2.1	0.384	0.044	0.2145	145.9

Results for 100 year +45% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S1	11	33.718	0.293	127.1	1.6499	0.0000	OK
15 minute summer	S2	12	33.350	0.350	124.8	0.0989	0.0000	SURCHARGED
15 minute summer	S3	11	32.847	0.697	117.5	0.1973	0.0000	FLOOD RISK
15 minute summer	SLURRY PIT	11	32.261	0.261	297.6	0.0000	0.0000	OK
15 minute summer	INLET	11	32.725	0.650	115.0	0.7348	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S1	1.000	S2	124.8	2.126	0.926	2.0318	
15 minute summer	S2	1.001	S3	117.5	1.684	0.715	2.7494	
15 minute summer	S3	1.002	INLET	115.0	1.634	0.845	0.3527	
15 minute summer	INLET	1.003	SLURRY PIT	115.8	1.650	2.399	2.6393	55.1

Results for 100 year +45% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	33.665	0.240	119.3	1.3528	0.0000	OK
15 minute winter	S2	11	33.239	0.239	117.4	0.0678	0.0000	OK
15 minute winter	S3	11	32.833	0.683	114.5	0.1933	0.0000	FLOOD RISK
15 minute winter	SLURRY PIT	11	32.259	0.259	279.9	0.0000	0.0000	OK
15 minute winter	INLET	11	32.711	0.636	114.1	0.7191	0.0000	FLOOD RISK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S1	1.000	S2	117.4	2.137	0.871	1.7184	
15 minute winter	S2	1.001	S3	114.5	1.669	0.697	2.5518	
15 minute winter	S3	1.002	INLET	114.1	1.621	0.838	0.3527	
15 minute winter	INLET	1.003	SLURRY PIT	113.7	1.621	2.355	2.6315	55.1

Results for 100 year +45% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S1	18	33.658	0.233	114.5	1.3140	0.0000	OK
30 minute summer	S2	18	33.222	0.222	114.6	0.0628	0.0000	OK
30 minute summer	S3	19	32.808	0.658	112.4	0.1863	0.0000	FLOOD RISK
30 minute summer	SLURRY PIT	19	32.257	0.257	276.5	0.0000	0.0000	OK
30 minute summer	INLET	19	32.692	0.617	111.3	0.6984	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S1	1.000	S2	114.6	2.135	0.850	1.6586	
30 minute summer	S2	1.001	S3	112.4	1.658	0.684	2.4655	
30 minute summer	S3	1.002	INLET	111.3	1.581	0.818	0.3527	
30 minute summer	INLET	1.003	SLURRY PIT	111.9	1.598	2.320	2.6252	72.3

Results for 100 year +45% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S1	18	33.623	0.198	92.5	1.1191	0.0000	OK
30 minute winter	S2	18	33.160	0.160	92.5	0.0452	0.0000	OK
30 minute winter	S3	18	32.616	0.466	92.3	0.1319	0.0000	SURCHARGED
30 minute winter	SLURRY PIT	19	32.236	0.236	226.4	0.0000	0.0000	OK
30 minute winter	INLET	18	32.537	0.462	91.7	0.5225	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	S1	1.000	S2	92.5	2.110	0.686	1.2674	
30 minute winter	S2	1.001	S3	92.3	1.527	0.562	2.1187	
30 minute winter	S3	1.002	INLET	91.7	1.303	0.674	0.3527	
30 minute winter	INLET	1.003	SLURRY PIT	91.7	1.333	1.901	2.5301	72.3

Results for 100 year +45% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S1	33	33.613	0.188	85.3	1.0579	0.0000	OK
60 minute summer	S2	33	33.152	0.152	85.3	0.0430	0.0000	OK
60 minute summer	S3	33	32.557	0.407	85.3	0.1153	0.0000	SURCHARGED
60 minute summer	SLURRY PIT	34	32.227	0.227	209.0	0.0000	0.0000	OK
60 minute summer	INLET	33	32.490	0.415	84.8	0.4693	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	S1	1.000	S2	85.3	2.077	0.633	1.1881	
60 minute summer	S2	1.001	S3	85.3	1.504	0.519	2.0725	
60 minute summer	S3	1.002	INLET	84.8	1.204	0.623	0.3527	
60 minute summer	INLET	1.003	SLURRY PIT	84.6	1.240	1.753	2.4868	90.4

Results for 100 year +45% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S1	33	33.577	0.152	61.7	0.8589	0.0000	OK
60 minute winter	S2	33	33.126	0.126	61.7	0.0357	0.0000	OK
60 minute winter	S3	34	32.386	0.236	61.7	0.0668	0.0000	OK
60 minute winter	SLURRY PIT	34	32.193	0.193	151.1	0.0000	0.0000	OK
60 minute winter	INLET	34	32.363	0.288	61.3	0.3257	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	S1	1.000	S2	61.7	1.929	0.458	0.9266	
60 minute winter	S2	1.001	S3	61.7	1.458	0.375	1.7051	
60 minute winter	S3	1.002	INLET	61.3	0.947	0.450	0.3229	
60 minute winter	INLET	1.003	SLURRY PIT	61.4	1.014	1.272	2.2877	90.5

Results for 100 year +45% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S1	64	33.567	0.142	54.9	0.8006	0.0000	OK
120 minute summer	S2	64	33.118	0.118	54.9	0.0335	0.0000	OK
120 minute summer	S3	64	32.356	0.206	54.9	0.0582	0.0000	OK
120 minute summer	SLURRY PIT	64	32.182	0.182	134.9	0.0000	0.0000	OK
120 minute summer	INLET	64	32.335	0.260	54.8	0.2940	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	S1	1.000	S2	54.9	1.874	0.407	0.8483	
120 minute summer	S2	1.001	S3	54.9	1.452	0.334	1.5096	
120 minute summer	S3	1.002	INLET	54.8	0.939	0.403	0.2914	
120 minute summer	INLET	1.003	SLURRY PIT	54.7	0.984	1.134	2.1341	109.1

Results for 100 year +45% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S1	64	33.540	0.115	37.8	0.6458	0.0000	OK
120 minute winter	S2	64	33.097	0.097	37.8	0.0275	0.0000	OK
120 minute winter	S3	64	32.298	0.148	37.8	0.0419	0.0000	OK
120 minute winter	SLURRY PIT	64	32.150	0.150	93.0	0.0000	0.0000	OK
120 minute winter	INLET	64	32.275	0.200	37.8	0.2261	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	S1	1.000	S2	37.8	1.705	0.280	0.6427	
120 minute winter	S2	1.001	S3	37.8	1.400	0.230	1.0614	
120 minute winter	S3	1.002	INLET	37.8	0.892	0.278	0.2117	
120 minute winter	INLET	1.003	SLURRY PIT	37.8	0.887	0.783	1.6566	109.2

Results for 100 year +45% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S1	96	33.544	0.119	40.4	0.6703	0.0000	OK
180 minute summer	S2	96	33.100	0.100	40.4	0.0284	0.0000	OK
180 minute summer	S3	96	32.306	0.156	40.4	0.0442	0.0000	OK
180 minute summer	SLURRY PIT	96	32.155	0.155	99.4	0.0000	0.0000	OK
180 minute summer	INLET	96	32.284	0.209	40.4	0.2361	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	S1	1.000	S2	40.4	1.734	0.300	0.6750	
180 minute summer	S2	1.001	S3	40.4	1.417	0.246	1.1270	
180 minute summer	S3	1.002	INLET	40.4	0.901	0.297	0.2238	
180 minute summer	INLET	1.003	SLURRY PIT	40.4	0.904	0.837	1.7358	120.1

Results for 100 year +45% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S1	96	33.522	0.097	27.8	0.5459	0.0000	OK
180 minute winter	S2	96	33.083	0.083	27.8	0.0234	0.0000	OK
180 minute winter	S3	96	32.268	0.118	27.8	0.0335	0.0000	OK
180 minute winter	SLURRY PIT	96	32.128	0.128	68.4	0.0000	0.0000	OK
180 minute winter	INLET	96	32.241	0.166	27.8	0.1877	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	S1	1.000	S2	27.8	1.571	0.206	0.5130	
180 minute winter	S2	1.001	S3	27.8	1.346	0.169	0.8117	
180 minute winter	S3	1.002	INLET	27.8	0.847	0.204	0.1646	
180 minute winter	INLET	1.003	SLURRY PIT	27.8	0.812	0.576	1.3348	120.3

Results for 100 year +45% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S1	124	33.532	0.107	33.7	0.6050	0.0000	OK
240 minute summer	S2	124	33.091	0.091	33.5	0.0257	0.0000	OK
240 minute summer	S3	124	32.284	0.134	33.4	0.0380	0.0000	OK
240 minute summer	SLURRY PIT	124	32.139	0.139	82.1	0.0000	0.0000	OK
240 minute summer	INLET	124	32.259	0.184	33.2	0.2080	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	S1	1.000	S2	33.5	1.653	0.249	0.5881	
240 minute summer	S2	1.001	S3	33.4	1.383	0.203	0.9476	
240 minute summer	S3	1.002	INLET	33.2	0.875	0.244	0.1898	
240 minute summer	INLET	1.003	SLURRY PIT	33.0	0.852	0.683	1.5069	128.0

Results for 100 year +45% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S1	124	33.511	0.086	22.4	0.4862	0.0000	OK
240 minute winter	S2	124	33.074	0.074	22.4	0.0210	0.0000	OK
240 minute winter	S3	124	32.252	0.102	22.4	0.0288	0.0000	OK
240 minute winter	SLURRY PIT	124	32.114	0.114	55.0	0.0000	0.0000	OK
240 minute winter	INLET	124	32.221	0.146	22.3	0.1656	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	S1	1.000	S2	22.4	1.481	0.166	0.4378	
240 minute winter	S2	1.001	S3	22.4	1.299	0.136	0.6752	
240 minute winter	S3	1.002	INLET	22.3	0.812	0.164	0.1382	
240 minute winter	INLET	1.003	SLURRY PIT	22.3	0.762	0.462	1.1422	128.1

Results for 100 year +45% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S1	184	33.516	0.091	25.1	0.5158	0.0000	OK
360 minute summer	S2	184	33.078	0.078	25.0	0.0221	0.0000	OK
360 minute summer	S3	184	32.259	0.109	24.9	0.0309	0.0000	OK
360 minute summer	SLURRY PIT	184	32.120	0.120	61.2	0.0000	0.0000	OK
360 minute summer	INLET	184	32.230	0.155	24.7	0.1750	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	S1	1.000	S2	25.0	1.527	0.185	0.4739	
360 minute summer	S2	1.001	S3	24.9	1.325	0.151	0.7361	
360 minute summer	S3	1.002	INLET	24.7	0.829	0.181	0.1496	
360 minute summer	INLET	1.003	SLURRY PIT	24.5	0.782	0.508	1.2240	139.4

Results for 100 year +45% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S1	184	33.498	0.073	16.3	0.4121	0.0000	OK
360 minute winter	S2	184	33.063	0.063	16.3	0.0179	0.0000	OK
360 minute winter	S3	184	32.233	0.083	16.3	0.0234	0.0000	OK
360 minute winter	SLURRY PIT	184	32.096	0.096	40.0	0.0000	0.0000	OK
360 minute winter	INLET	184	32.198	0.123	16.3	0.1394	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S1	1.000	S2	16.3	1.356	0.121	0.3480	
360 minute winter	S2	1.001	S3	16.3	1.229	0.099	0.5193	
360 minute winter	S3	1.002	INLET	16.3	0.760	0.119	0.1078	
360 minute winter	INLET	1.003	SLURRY PIT	16.2	0.695	0.336	0.9119	139.6

Results for 100 year +45% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S1	248	33.505	0.080	19.5	0.4523	0.0000	OK
480 minute summer	S2	248	33.069	0.069	19.5	0.0196	0.0000	OK
480 minute summer	S3	248	32.243	0.093	19.5	0.0263	0.0000	OK
480 minute summer	SLURRY PIT	248	32.106	0.106	48.0	0.0000	0.0000	OK
480 minute summer	INLET	248	32.211	0.136	19.5	0.1538	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	S1	1.000	S2	19.5	1.426	0.145	0.3964	
480 minute summer	S2	1.001	S3	19.5	1.270	0.119	0.6026	
480 minute summer	S3	1.002	INLET	19.5	0.789	0.143	0.1243	
480 minute summer	INLET	1.003	SLURRY PIT	19.5	0.733	0.404	1.0393	147.7

Results for 100 year +45% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S1	248	33.490	0.065	12.9	0.3655	0.0000	OK
480 minute winter	S2	248	33.056	0.056	12.9	0.0160	0.0000	OK
480 minute winter	S3	248	32.222	0.072	12.9	0.0203	0.0000	OK
480 minute winter	SLURRY PIT	248	32.086	0.086	31.8	0.0000	0.0000	OK
480 minute winter	INLET	248	32.184	0.109	12.9	0.1235	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	S1	1.000	S2	12.9	1.270	0.096	0.2944	
480 minute winter	S2	1.001	S3	12.9	1.175	0.078	0.4303	
480 minute winter	S3	1.002	INLET	12.9	0.722	0.095	0.0903	
480 minute winter	INLET	1.003	SLURRY PIT	12.9	0.651	0.267	0.7742	148.2

Results for 100 year +45% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S1	315	33.497	0.072	15.8	0.4057	0.0000	OK
600 minute summer	S2	315	33.062	0.062	15.8	0.0177	0.0000	OK
600 minute summer	S3	315	32.231	0.081	15.8	0.0230	0.0000	OK
600 minute summer	SLURRY PIT	315	32.095	0.095	38.8	0.0000	0.0000	OK
600 minute summer	INLET	315	32.196	0.121	15.8	0.1374	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	S1	1.000	S2	15.8	1.345	0.117	0.3406	
600 minute summer	S2	1.001	S3	15.8	1.222	0.096	0.5073	
600 minute summer	S3	1.002	INLET	15.8	0.755	0.116	0.1055	
600 minute summer	INLET	1.003	SLURRY PIT	15.8	0.690	0.327	0.8948	154.6

Results for 100 year +45% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S1	315	33.484	0.059	10.8	0.3341	0.0000	OK
600 minute winter	S2	315	33.052	0.052	10.8	0.0147	0.0000	OK
600 minute winter	S3	315	32.214	0.064	10.8	0.0182	0.0000	OK
600 minute winter	SLURRY PIT	315	32.078	0.078	26.5	0.0000	0.0000	OK
600 minute winter	INLET	315	32.175	0.100	10.8	0.1129	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	S1	1.000	S2	10.8	1.207	0.080	0.2593	
600 minute winter	S2	1.001	S3	10.8	1.134	0.066	0.3730	
600 minute winter	S3	1.002	INLET	10.8	0.693	0.079	0.0788	
600 minute winter	INLET	1.003	SLURRY PIT	10.8	0.618	0.224	0.6836	155.3

Results for 100 year +45% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S1	375	33.492	0.067	13.9	0.3797	0.0000	OK
720 minute summer	S2	375	33.059	0.059	13.9	0.0166	0.0000	OK
720 minute summer	S3	375	32.225	0.075	13.9	0.0212	0.0000	OK
720 minute summer	SLURRY PIT	375	32.089	0.089	34.2	0.0000	0.0000	OK
720 minute summer	INLET	375	32.189	0.114	13.9	0.1284	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	S1	1.000	S2	13.9	1.297	0.103	0.3105	
720 minute summer	S2	1.001	S3	13.9	1.192	0.085	0.4572	
720 minute summer	S3	1.002	INLET	13.9	0.734	0.102	0.0956	
720 minute summer	INLET	1.003	SLURRY PIT	13.9	0.665	0.288	0.8168	160.6

Results for 100 year +45% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S1	375	33.480	0.055	9.4	0.3118	0.0000	OK
720 minute winter	S2	375	33.048	0.048	9.4	0.0137	0.0000	OK
720 minute winter	S3	375	32.209	0.059	9.4	0.0167	0.0000	OK
720 minute winter	SLURRY PIT	375	32.073	0.073	23.1	0.0000	0.0000	OK
720 minute winter	INLET	375	32.168	0.093	9.4	0.1052	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	S1	1.000	S2	9.4	1.160	0.070	0.2350	
720 minute winter	S2	1.001	S3	9.4	1.103	0.057	0.3339	
720 minute winter	S3	1.002	INLET	9.4	0.671	0.069	0.0710	
720 minute winter	INLET	1.003	SLURRY PIT	9.4	0.594	0.195	0.6183	161.2

Results for 100 year +45% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S1	495	33.486	0.061	11.3	0.3417	0.0000	OK
960 minute summer	S2	495	33.053	0.053	11.3	0.0150	0.0000	OK
960 minute summer	S3	495	32.216	0.066	11.3	0.0187	0.0000	OK
960 minute summer	SLURRY PIT	495	32.080	0.080	27.8	0.0000	0.0000	OK
960 minute summer	INLET	495	32.177	0.102	11.3	0.1155	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	S1	1.000	S2	11.3	1.222	0.084	0.2678	
960 minute summer	S2	1.001	S3	11.3	1.145	0.069	0.3867	
960 minute summer	S3	1.002	INLET	11.3	0.701	0.083	0.0816	
960 minute summer	INLET	1.003	SLURRY PIT	11.3	0.626	0.234	0.7059	170.1

Results for 100 year +45% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S1	495	33.474	0.049	7.5	0.2788	0.0000	OK
960 minute winter	S2	495	33.043	0.043	7.5	0.0123	0.0000	OK
960 minute winter	S3	495	32.202	0.052	7.5	0.0146	0.0000	OK
960 minute winter	SLURRY PIT	495	32.065	0.065	18.4	0.0000	0.0000	OK
960 minute winter	INLET	495	32.158	0.083	7.5	0.0940	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	S1	1.000	S2	7.5	1.088	0.056	0.2002	
960 minute winter	S2	1.001	S3	7.5	1.052	0.046	0.2791	
960 minute winter	S3	1.002	INLET	7.5	0.636	0.055	0.0599	
960 minute winter	INLET	1.003	SLURRY PIT	7.5	0.556	0.155	0.5278	171.0

Results for 100 year +45% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S1	750	33.476	0.051	8.0	0.2878	0.0000	OK
1440 minute summer	S2	750	33.045	0.045	8.0	0.0127	0.0000	OK
1440 minute summer	S3	750	32.204	0.054	8.0	0.0152	0.0000	OK
1440 minute summer	SLURRY PIT	750	32.067	0.067	19.7	0.0000	0.0000	OK
1440 minute summer	INLET	750	32.161	0.086	8.0	0.0971	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	S1	1.000	S2	8.0	1.107	0.059	0.2095	
1440 minute summer	S2	1.001	S3	8.0	1.065	0.049	0.2937	
1440 minute summer	S3	1.002	INLET	8.0	0.646	0.059	0.0629	
1440 minute summer	INLET	1.003	SLURRY PIT	8.0	0.566	0.166	0.5523	183.8

Results for 100 year +45% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S1	750	33.467	0.042	5.4	0.2371	0.0000	OK
1440 minute winter	S2	750	33.037	0.037	5.4	0.0105	0.0000	OK
1440 minute winter	S3	750	32.192	0.042	5.4	0.0120	0.0000	OK
1440 minute winter	SLURRY PIT	750	32.055	0.055	13.3	0.0000	0.0000	OK
1440 minute winter	INLET	750	32.146	0.071	5.4	0.0801	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	S1	1.000	S2	5.4	0.988	0.040	0.1587	
1440 minute winter	S2	1.001	S3	5.4	0.980	0.033	0.2157	
1440 minute winter	S3	1.002	INLET	5.4	0.586	0.040	0.0470	
1440 minute winter	INLET	1.003	SLURRY PIT	5.4	0.505	0.112	0.4185	186.0

Results for 100 year +45% CC 2160 minute summer. 2400 minute analysis at 60 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute summer	S1	1140	33.468	0.043	5.6	0.2413	0.0000	OK
2160 minute summer	S2	1140	33.038	0.038	5.6	0.0107	0.0000	OK
2160 minute summer	S3	1140	32.193	0.043	5.6	0.0123	0.0000	OK
2160 minute summer	SLURRY PIT	1140	32.056	0.056	13.8	0.0000	0.0000	OK
2160 minute summer	INLET	1140	32.147	0.072	5.6	0.0816	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	S1	1.000	S2	5.6	0.998	0.042	0.1628	
2160 minute summer	S2	1.001	S3	5.6	0.988	0.034	0.2219	
2160 minute summer	S3	1.002	INLET	5.6	0.591	0.041	0.0482	
2160 minute summer	INLET	1.003	SLURRY PIT	5.6	0.511	0.116	0.4291	199.4

Results for 100 year +45% CC 2160 minute winter. 2400 minute analysis at 60 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2160 minute winter	S1	1140	33.461	0.036	3.9	0.2027	0.0000	OK
2160 minute winter	S2	1140	33.032	0.032	3.9	0.0090	0.0000	OK
2160 minute winter	S3	1140	32.185	0.035	3.9	0.0100	0.0000	OK
2160 minute winter	SLURRY PIT	1140	32.046	0.046	9.5	0.0000	0.0000	OK
2160 minute winter	INLET	1140	32.136	0.061	3.9	0.0686	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute winter	S1	1.000	S2	3.9	0.896	0.029	0.1263	
2160 minute winter	S2	1.001	S3	3.9	0.912	0.024	0.1675	
2160 minute winter	S3	1.002	INLET	3.9	0.539	0.029	0.0370	
2160 minute winter	INLET	1.003	SLURRY PIT	3.9	0.461	0.081	0.3318	201.1

Results for 100 year +45% CC 2880 minute summer. 3120 minute analysis at 60 minute timestep. Mass balance: 100.00%

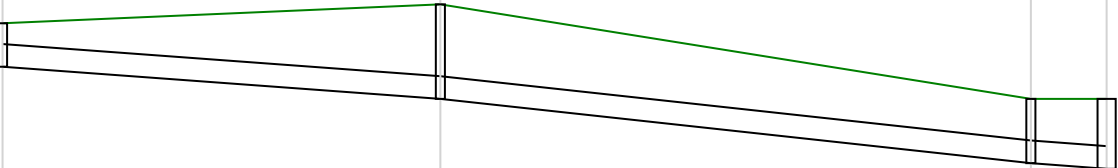
Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute summer	S1	1500	33.464	0.039	4.6	0.2193	0.0000	OK
2880 minute summer	S2	1500	33.034	0.034	4.6	0.0097	0.0000	OK
2880 minute summer	S3	1500	32.189	0.039	4.6	0.0110	0.0000	OK
2880 minute summer	SLURRY PIT	1500	32.051	0.051	11.3	0.0000	0.0000	OK
2880 minute summer	INLET	1500	32.141	0.066	4.6	0.0742	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute summer	S1	1.000	S2	4.6	0.940	0.034	0.1417	
2880 minute summer	S2	1.001	S3	4.6	0.943	0.028	0.1906	
2880 minute summer	S3	1.002	INLET	4.6	0.563	0.034	0.0417	
2880 minute summer	INLET	1.003	SLURRY PIT	4.6	0.482	0.095	0.3736	209.1

Results for 100 year +45% CC 2880 minute winter. 3120 minute analysis at 60 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
2880 minute winter	S1	1500	33.457	0.032	3.1	0.1817	0.0000	OK
2880 minute winter	S2	1500	33.029	0.029	3.1	0.0081	0.0000	OK
2880 minute winter	S3	1500	32.181	0.031	3.1	0.0088	0.0000	OK
2880 minute winter	SLURRY PIT	1500	32.041	0.041	7.6	0.0000	0.0000	OK
2880 minute winter	INLET	1500	32.129	0.054	3.1	0.0616	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2880 minute winter	S1	1.000	S2	3.1	0.836	0.023	0.1074	
2880 minute winter	S2	1.001	S3	3.1	0.857	0.019	0.1412	
2880 minute winter	S3	1.002	INLET	3.1	0.504	0.023	0.0315	
2880 minute winter	INLET	1.003	SLURRY PIT	3.1	0.429	0.064	0.2834	210.7

Node Name	S1	S2	S3	INLET
A4 drawing Hor Scale 500 Ver Scale 100 Datum (m) 27.000				
	Link Name	1.000	1.001	1.002
	Section Type	300mm	300mm	300mm
	Slope (1:X)	68.1	45.9	66.8
	Cover Level (m)	34.000	34.250	33.000
Invert Level (m)	33.425	33.000	32.150	32.075
Length (m)	28.947	39.043	5.008	



Node Name	INLET	SLURRY PIT	
A4 drawing Hor Scale 500 Ver Scale 100 Datum (m) 27.000			
Link Name	1.003		
Section Type	300mm		
Slope (1:X)	519.7		
Cover Level (m)	33.000	33.000	
Invert Level (m)	32.075	32.000	
Length (m)	38.976		

