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 - ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM UNLESS SHOWN OTHERWISE.
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 - EXISTING DRAINAGE INFORMATION SHOWN ON THESE DRAWINGS ARE NOT EXHAUSTIVE. EXISTING DRAINS TO BE RETAINED ARE SHOWN. DRAINAGE TO BE ABANDONED NOT SHOWN. EXISTING DRAINAGE ENCOUNTERED NOT SHOWN ON THESE DRAWINGS SHALL BE TREATED AS DIRECTED BY THE ENGINEER.
 - ALL EXISTING AND DIVERTED STATUTORY SERVICE INFORMATION IS SHOWN INDICATIVELY FOR REFERENCE ONLY. THE CONTRACTOR SHALL UNDERTAKE ALL NECESSARY INVESTIGATIONS TO DETERMINE THE EXACT LOCATION OF UNDERGROUND/OVERGROUND PLANT.

KEY:

- EXISTING FOUL WATER DRAINAGE
- PROPOSED FOUL WATER DRAINAGE
- PROPOSED FOUL WATER RISING MAIN
- PUBLIC SEWER FOUL WATER DRAINAGE
- PROPOSED FOUL WATER MANHOLE/INSPECTION CHAMBER
- PROPOSED SURFACE WATER MANHOLE/INSPECTION CHAMBER
- FLOW CONTROL CHAMBER
- PROPOSED SURFACE WATER DRAINAGE
- EXISTING DITCH RETAINED
- EXISTING CULVERT
- HEADWALL (EXISTING & PROPOSED)
- PERMAVOID STORAGE CRATES
- PERMEABLE PAVING
- SWALE / ATTENUATION BASIN
- FOUL PUMPING STATION

P02	FIRST ISSUE	AP	DF	CL	11/04/2025
P01	FIRST ISSUE	AP	DF	CL	21/01/2025
Rev	Description	Drawn	Checked	Approved	Date

Purpose of Issue: **PURPOSE OF ISSUE**
 Status: **SUITABILITY**

FOXHILLS FARM BOLNEY

RAMBOLL
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DRAINAGE LAYOUT SKETCH

Project No:	1620011691	Scale (8A1):	SCALE	Date:	JAN 25
Drawn:	AP	Designed by:	DF		
Drawing No:	11691-RAM-HDG-XX-SK-C-00001	Rev:	P02		





SURFACE WATER ATTENUATION PROVISION:
 1. 305m³ STORAGE WITHIN 450mm PERMEABLE PAVING
 2. 59m³ STORAGE IN SWALE
 3. 1150m³ STORAGE IN ATTENUATION BASINS (1.0m DEEP)

SURFACE WATER ATTENUATION PROVISION:
 1. 166m³ STORAGE WITHIN 250mm PERMEABLE PAVING
 2. 1117m³ STORAGE IN ATTENUATION BASINS (1.0m DEEP)

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- KEY:
- ExFW — EXISTING FOUL WATER DRAINAGE
 - FW — PROPOSED FOUL WATER DRAINAGE
 - Proposed FW Rising Main
 - Public Sewer Foul Water Drainage
 - Proposed Foul Water Manhole/Inspection Chamber
 - Proposed Surface Water Manhole/Inspection Chamber
 - Flow Control Chamber
 - SW — PROPOSED SURFACE WATER DRAINAGE
 - Existing Ditch Retained
 - Existing Culvert
 - Headwall (Existing & Proposed)
 - Permavoid Storage Crates
 - Permeable Paving
 - Swale / Attenuation Basin
 - Foul Pumping Station

PEAK FOUL FLOW RATE: 1.81l/s
 CAPACITY CONFIRMED WITH SOUTHERN WATER

OUTFALL INTO EXISTING WATER COURSE RESTRICTED TO FEH GREENFIELD RATE. FLOW RESTRICTION: 46.3l/s

P02	REV	DESCRIPTION	DATE
	AP	DF	CL
P01	REV	DESCRIPTION	DATE
	AP	DF	CL

Purpose of Issue: **PURPOSE OF ISSUE**
 Status: **SUITABILITY**

FOXHILLS FARM BOLNEY



DRAINAGE LAYOUT SKETCH

Project No:	1620011691	Scale (8A1):	SCALE	Date:	JAN 25
Drawn:	AP	Designed by:	DF		
Drawing No:	11691-RAM-HDG-XX-SK-C-00001	Rev:	P02		

Input

Input Type	User Input
Area (ha)	3.92
Volumetric Runoff Coefficient	0.750
Discharge Rate (L/s)	44.2
Infiltration Rate (m/hr)	0.0
Safety Factor	2.0
	Quick

Calculate

Create New From Library

- All
- FEH

...

Method	FEH
Number of Storms	24
Max. Run Time (mins)	2880

- Input
- Results
- 2D Graph

OK

Cancel

File Edit



Rainfall Manager Items

- [-] Rainfall
 - [-] Design Storms
 - FSR
 - FEH
 - FEH
 - User Defined Rainfall
 - Known Rainfall
 - Temporal Pattern
 - IDF

Select from the following

Label FEH

Parameters **Return Periods** Storm Durations

Return Periods

Use	Return Period (years)	Increase Rainfall (%)
<input type="checkbox"/>	2	0
<input type="checkbox"/>	5	0
<input type="checkbox"/>	30	0
<input checked="" type="checkbox"/>	100	55

Add

Delete

Clear All

Deselect All

Select All

OK Cancel

Select to use for analysis

Results

Quick Storage Estimate variables require approximate storage of between 2358m³ - 3463m³.

These values are estimates only and should not be used for final design purposes.

Input

Results

2D Graph

OK

Cancel

Results

Quick Storage Estimate variables require approximate storage of between 2581m³ - 3776m³.

These values are estimates only and should not be used for final design purposes.

Input

Results

2D Graph

OK

Cancel

ICP SUDS / IH 124	ADAS 345	FEH	ReFH2	Greenfield Volume
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Site Location

GB 525600 123050 TQ 25600 23050 

Version Catchment

Area (ha)

SAAR (mm) 

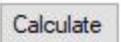
SPRHOST

URBEXT

Median Annual Flood (QMED)

BFIHOST

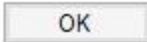
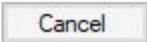
FARL



Results

QMED Rural (L/s)

QMED Urban (L/s)

InputInput Type Area (ha) Volumetric Runoff Coefficient Discharge Rate (L/s) Infiltration Rate (m/hr) Safety Factor Create New From Library

- All
- FEH

Method FEH

Number of Storms 24

Max. Run Time (mins) 2880

Input

Results

2D Graph

File Edit



Rainfall Manager Items

- Rainfall
 - Design Storms
 - FSR
 - FEH
 - FEH
 - User Defined Rainfall
 - Known Rainfall
 - Temporal Pattern
 - IDF

Select from the following

Label FEH

Parameters **Return Periods** Storm Durations

Return Periods

Use	Return Period (years)	Increase Rainfall (%)
<input type="checkbox"/>	2	0
<input type="checkbox"/>	5	0
<input type="checkbox"/>	30	0
<input checked="" type="checkbox"/>	100	55

Add
Delete
Clear All
Deselect All
Select All

OK Cancel

Select to use for analysis

Results

Quick Storage Estimate variables require approximate storage of between 2770m^3 - 4047m^3 .

These values are estimates only and should not be used for final design purposes.

Input

Results

2D Graph

OK

Cancel

Results

Quick Storage Estimate variables require approximate storage of between 3025m³ - 4405m³.

These values are estimates only and should not be used for final design purposes.

Input

Results

2D Graph

OK

Cancel

ICP SUDS / IH 124	ADAS 345	FEH	ReFH2	Greenfield Volume
-------------------	----------	-----	-------	-------------------

Site Location

GB 525600 123050 TQ 25600 23050

Version Catchment

Area (ha)

SAAR (mm)

SPRHOST

URBEXT

Median Annual Flood (QMED)

BFIHOST

FARL

Results

QMED Rural (L/s)

QMED Urban (L/s)

APPENDIX B – SITE TOPOGRAPHICAL SURVEY