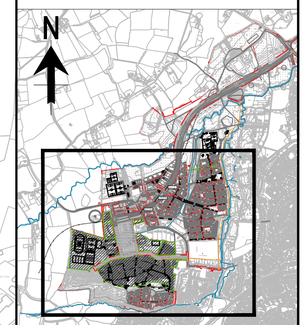
Notes

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE MILLIMETRES U.N.O.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
4. ALL DRAINAGE WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH "SEWERAGE SECTOR GUIDANCE APPENDIX C (FORMERLY KNOWN AS 'SEWERS FOR ADOPTION') , BUILDING REGULATIONS PART H AND CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY WHERE APPROPRIATE.
5. DRAWINGS HAVE BEEN PRODUCED BASED ON:
   - SITE MASTERPLAN - GILLESPIES DRAWING P12061-00-001-GIL- 0105
   - OS BASE MAP
   - TOPOGRAPHICAL SURVEY - MALTBY SURVEYS LTD DRAWING 19/013/100-00

KEY:

- SITE BOUNDARY
- PHASE 1 BOUNDARY
- PHASE 1 SUB-CATCHMENT BOUNDARY
- EXISTING FOUL WATER DIVERSION
- EXISTING FOUL WATER MANHOLE
- FOUL WATER DRAIN
- FOUL WATER MANHOLE
- FOUL WATER RISING MAIN
- FOUL WATER PUMP STATION
- EXISTING MAIN RIVER/ ORDINARY WATERCOURSE
- FLOOD ZONE 2 EXTENT
- PHASE 1 BOUNDARY EXTENT - TO ARCADIS DESIGN INFORMATION
- SUB-CATCHMENTS WITHIN PHASE 1 DESIGN BY ARCADIS

KEY PLAN



PROPOSED PUMP STATION REQUIRED TO LIFT FOUL WATER DRAINAGE TO THE REQUIRED HEIGHT TO MAKE A CONNECTION INTO THE EXISTING THAMES WATER SEWER EAST OF THE SITE. FINAL PUMP STATION SIZE AND LOCATION TO BE CONFIRMED AS DESIGN DEVELOPS. EMERGENCY STORAGE TO BE ALLOWED FOR WITHIN CHAMBER DESIGN.
DISCHARGE RATE = 42.7 l/s (PEAK)
24hr EMERGENCY STORAGE = 620m3

PROPOSED DISCHARGE LOCATIONS FROM SITE INTO LOCAL SEWER INFRASTRUCTURE IDENTIFIED WITHIN IFIELD BROOK VIA MANHOLE TW MH5601. EXISTING SEWER LOCATION, DEPTH AND CONDITION TO BE SURVEYED WITH CONNECTION TO BE CONFIRMED WITH THAMES WATER.
DISCHARGE RATE = 13.2 l/s (PEAK)

BREAK CHAMBER TO BE PROVIDED TO CONVERT PRESSURISED FLOW FROM RISING MAIN TO GRAVITY PRIOR TO CONNECTION INTO PUBLIC SEWER.

PROPOSED DISCHARGE LOCATIONS FROM SITE INTO LOCAL SEWER INFRASTRUCTURE IDENTIFIED WITHIN IFIELD BROOK VIA TW MANHOLE. EXISTING SEWER LOCATION, DEPTH AND CONDITION TO BE SURVEYED WITH CONNECTION TO BE CONFIRMED WITH THAMES WATER.
DISCHARGE RATE = 28.76 l/s (PEAK)

PROPOSED CROSSING POINT BENEATH MAIN SPINE ROAD. TO BE COORDINATED AND INCLUDED WITHIN PHASE 1 DESIGN.

PROPOSED CROSSING POINT BENEATH MAIN SPINE ROAD. TO BE COORDINATED AND INCLUDED WITHIN PHASE 1 DESIGN.

PROPOSED CROSSING POINT BENEATH MAIN SPINE ROAD. TO BE COORDINATED AND INCLUDED WITHIN PHASE 1 DESIGN.

PROPOSED DISCHARGE LOCATIONS FROM SITE INTO LOCAL SEWER INFRASTRUCTURE WITHIN VIA MANHOLE TW MH1305. PEVERAL ROAD. EXISTING SEWER LOCATION, DEPTH AND CONDITION TO BE SURVEYED WITH CONNECTION TO BE CONFIRMED WITH THAMES WATER.
DISCHARGE RATE = 8.3 l/s (PEAK)

RUSPER ROAD
RHODES DR
ELLIS WALK
HOY CRESCENT
RUSPER ROAD
RUSPER ROAD

GENERAL DESIGN NOTES:

- FOUL WATER DRAIN POINTS CONNECTING INTO SITE WIDE NETWORK SUBJECT TO FURTHER TO CONFIRMATION AND DETAILED DESIGN DEVELOPMENT AND ARE NOT INDICATED AT THIS TIME AND TBC BY MEP AND ARCHITECT.
- PROPOSED ONSITE UTILITY SERVICES NOT KNOWN, ROUTES TO BE PROVIDED AROUND/ ABOVE DRAINAGE NETWORKS TO AVOID CLASHES.
- FURTHER COORDINATION REQUIRED WITH LANDSCAPE ENGINEER TO DETERMINE LOW POINTS FOR GULLY AND DRAINAGE CHANNEL PROVISION AS DESIGN DEVELOPS.
- FURTHER COORDINATION REQUIRED WITH FINAL TREE LOCATIONS AND DETAILS TO AVOID CLASHES WITH BELOW GROUND DRAINAGE.

5m 0m 5m 10m 15m
SCALE 1:250

Rev	Description	Date	By Chk	App
P03	UPDATED RED LINE BOUNDARY	10.06 2025	GG PMG	SP
P02	DRAFT ISSUE	16.04 2025	GG PMG	SP
P01	DRAFT ISSUE	25.05 2023	PMG MS	DS

STAGE 2

WEST OF IFIELD

RAMBOLL

www.ramboll.co.uk

SITE WIDE FOUL WATER DRAINAGE GENERAL ARRANGEMENT

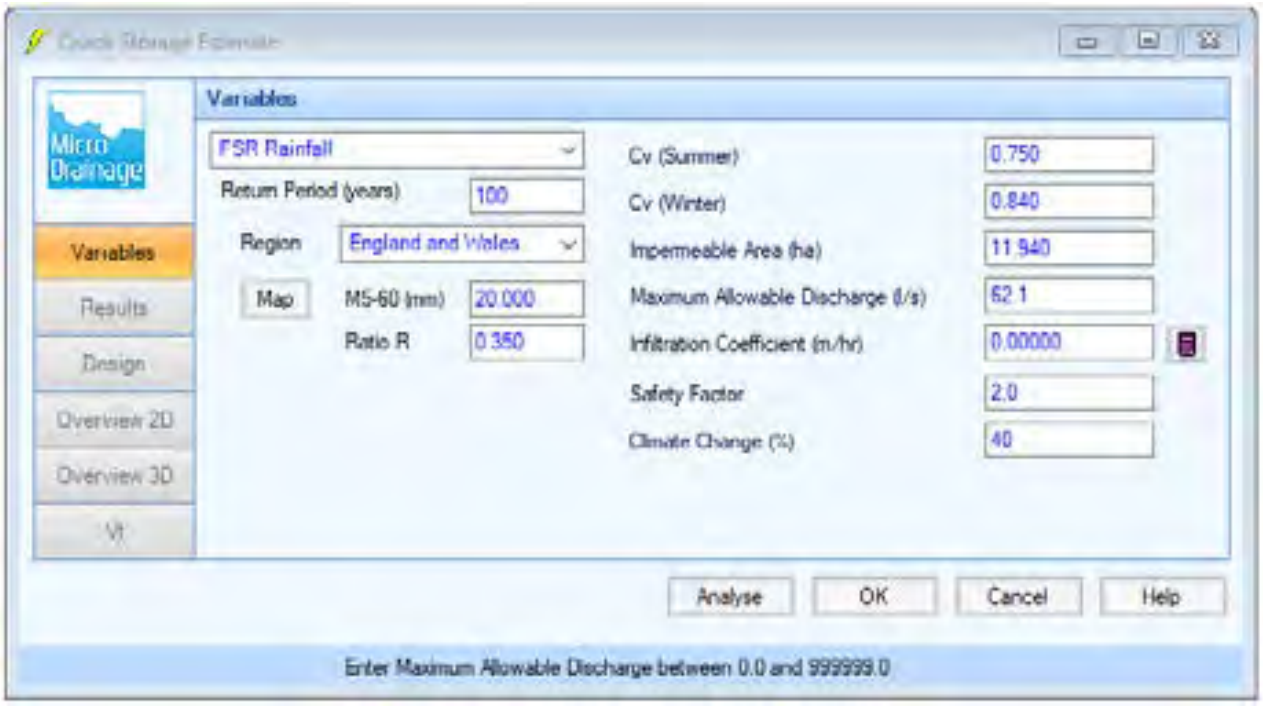
Project No:	Scale (@A1):	Drawn:	Date:
1620007949-001	1:2500	PMG	MAY.2023

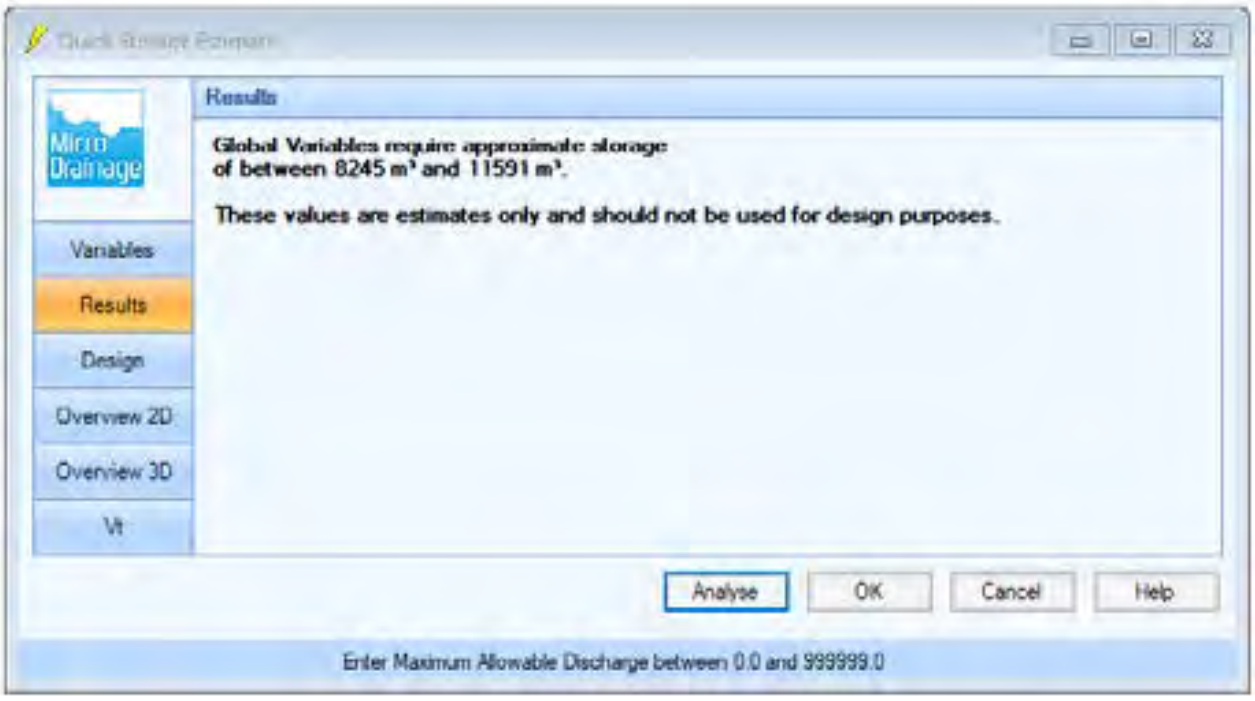
Drawing No: RAM-XX-XX-DR-C-0110
Rev: P03

10/06/2025 11:43:01

APPENDIX 6
SURFACE WATER CALCULATIONS

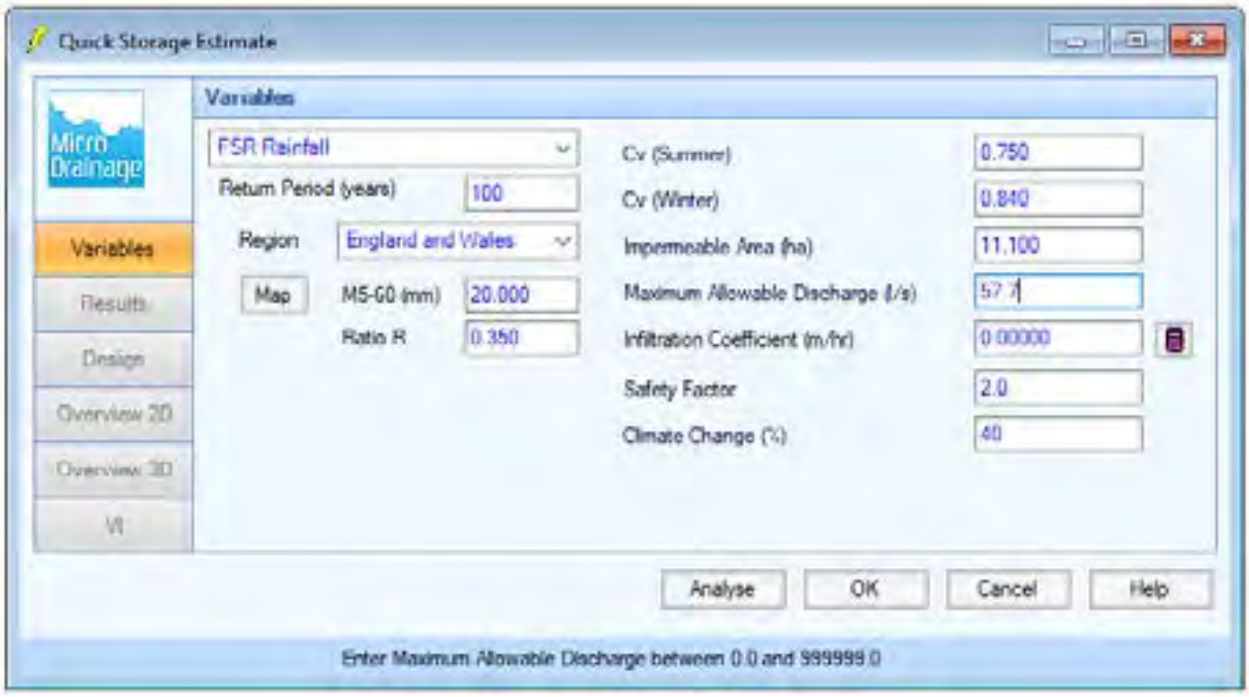
Catchment 1:

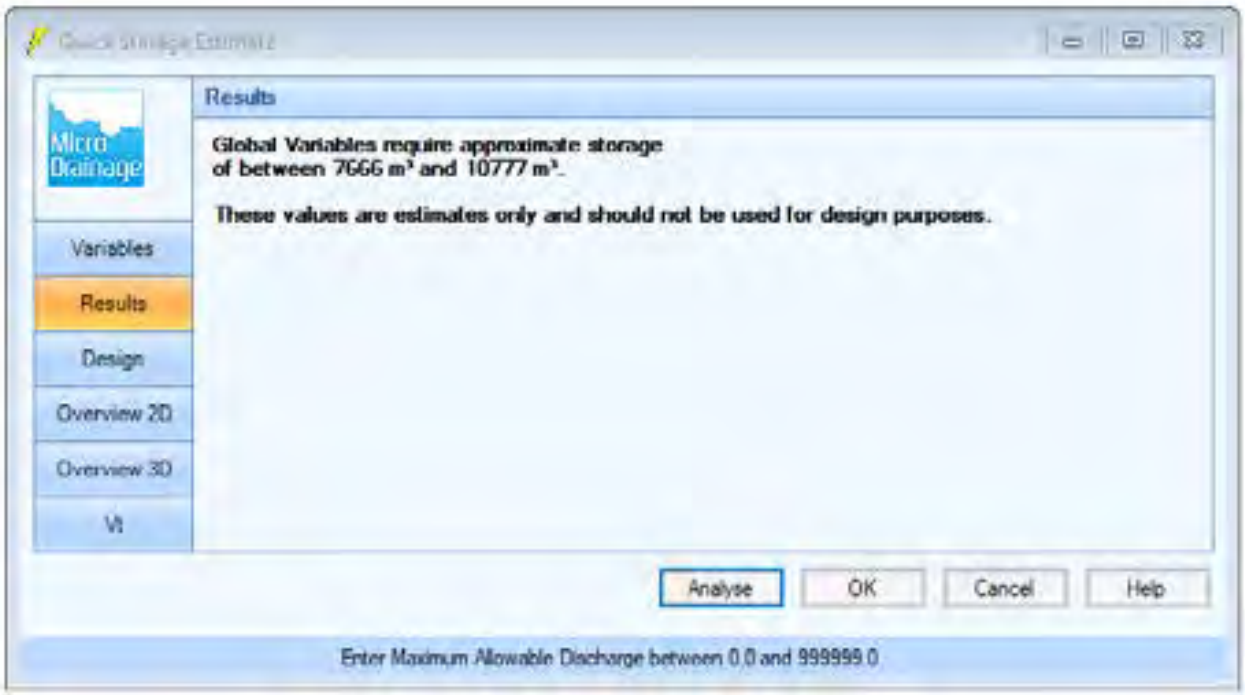




Quick Storage Estimate: 10,755m3 of Storage

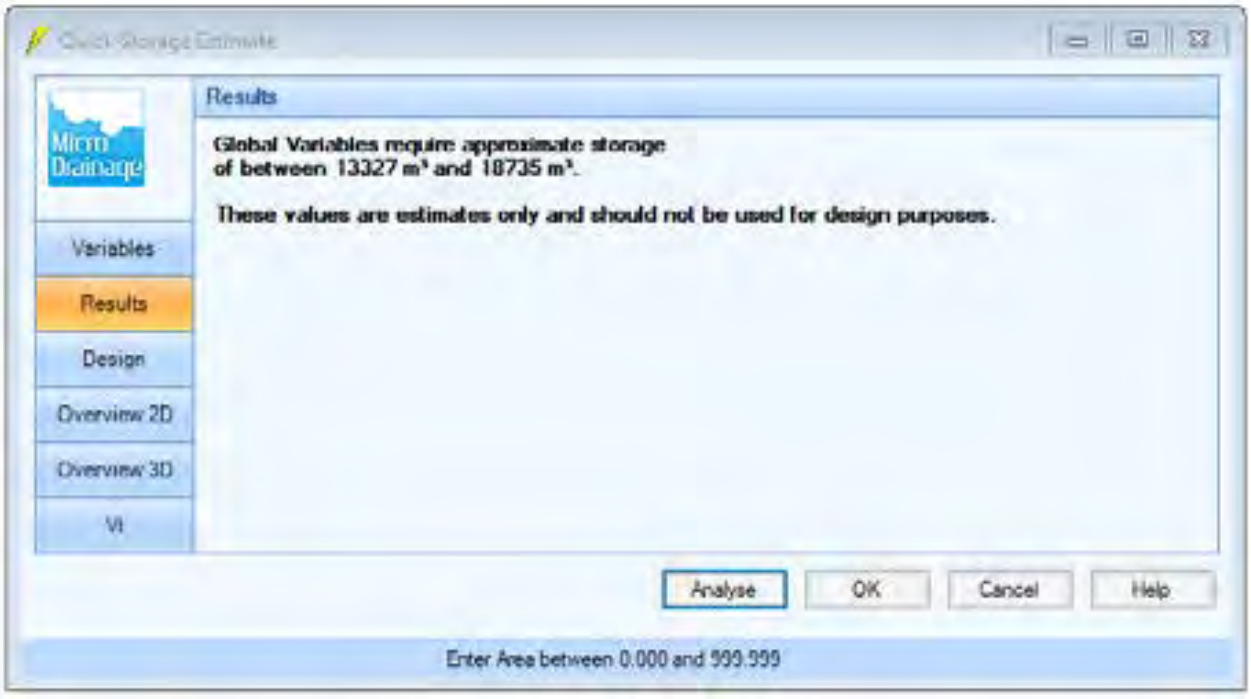
Catchment 2:





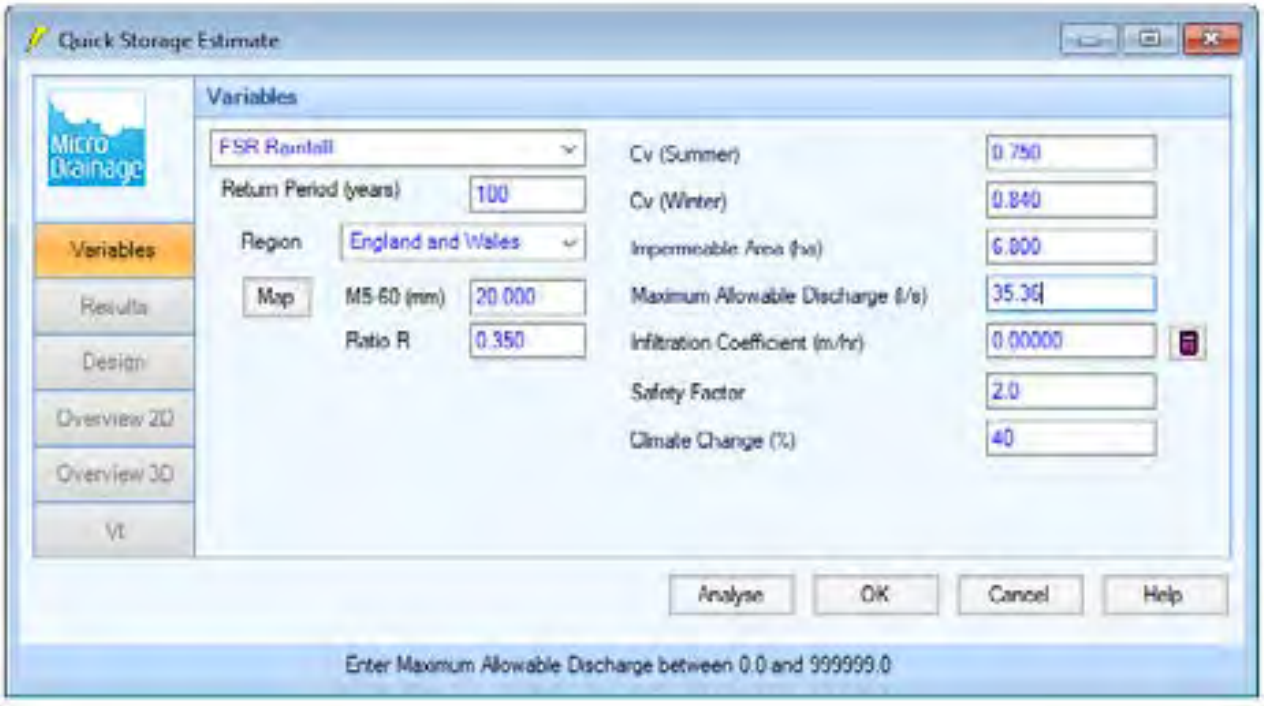
Quick Storage Estimate: 10,000m3 of Storage

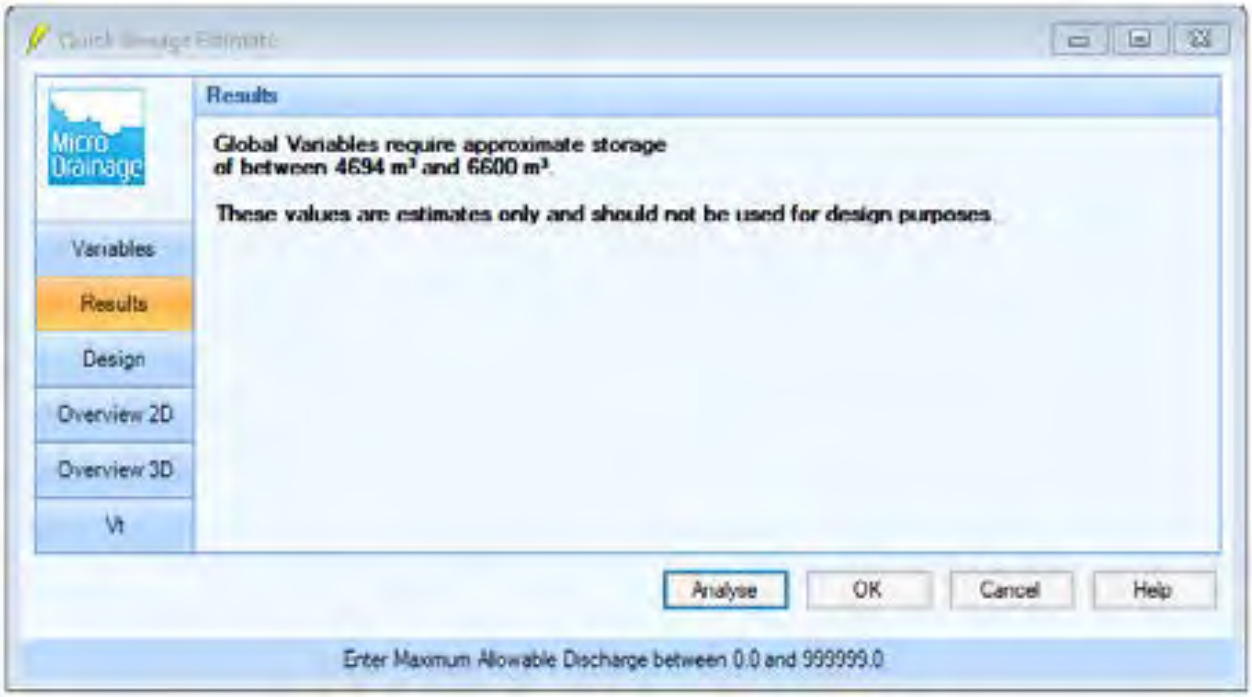
Catchment 3:



Quick Storage Estimate: 17,383m3 of Storage

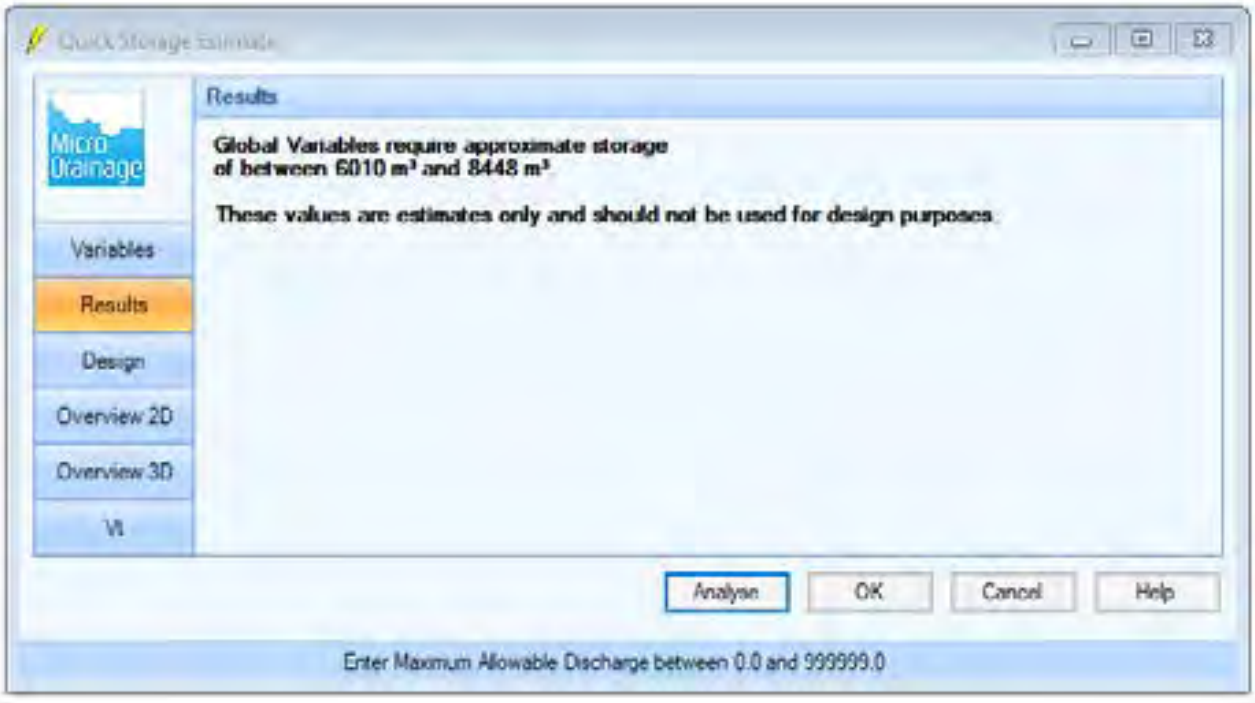
Catchment 4:





Quick Storage Estimate: 6,125m3 of Storage

Catchment 5:



Quick Storage Estimate: 7,850m3 of Storage

APPENDIX 7
FOUL WATER CALCULATIONS

WEST OF IFIELD
Homes England

BLOCK	FLATS			HOUSES				TOTAL HOMES	Peak Flow Rate from each Block	Average Flow Rate
	1B2P	2B4P	TOTAL	2B4P	3B5P	4B6P	TOTAL		(based on 4,000 l/ unit /day)	Avg = (Peak/6)
S	87	118	205	0	0	0	0	205	9.47	1.6
F	18	24	42	12	30	21	63	105	4.87	0.8
A	0	0	0	14	64	53	131	131	6.06	1.0
B	1	2	3	27	188	72	287	290	13.45	2.2
C	7	9	16	12	185	118	315	331	15.31	2.6
D	40	53	93	37	44	22	103	196	9.07	1.5
E	41	55	96	40	109	45	194	290	13.41	2.2
G	27	37	64	14	42	8	64	128	5.93	1.0
H	211	285	495	0	0	0	0	495	22.94	3.8
P									0.00	0.0
Q									0.00	0.0
I	0	0	0	6	2	6	14	14	0.65	0.1
J	4	5	9	20	57	36	113	122	5.63	0.9
K	5	7	13	36	98	16	150	163	7.53	1.3
L	10	13	22	14	52	24	90	112	5.21	0.9
M	0	0	0	12	88	79	179	179	8.29	1.4
N	0	0	0	7	32	78	117	117	5.42	0.9
O	0	0	0	28	80	14	122	122	5.65	0.9
	449	608	1058	279	1071	592	1942	3000	138.87	23.1
								Secondary School	18.75	3.1
								Care Centre	20	3.3
								Primary School	11.38	1.9
								Total Demands (l/s)	**189.00**	**31.50**

Connection via pump station

Connection via TWMH 5601

Connection via 2701

Connection via TWMH 1305

APPENDIX 8
FLOOD EXCEEDANCE ROUTES