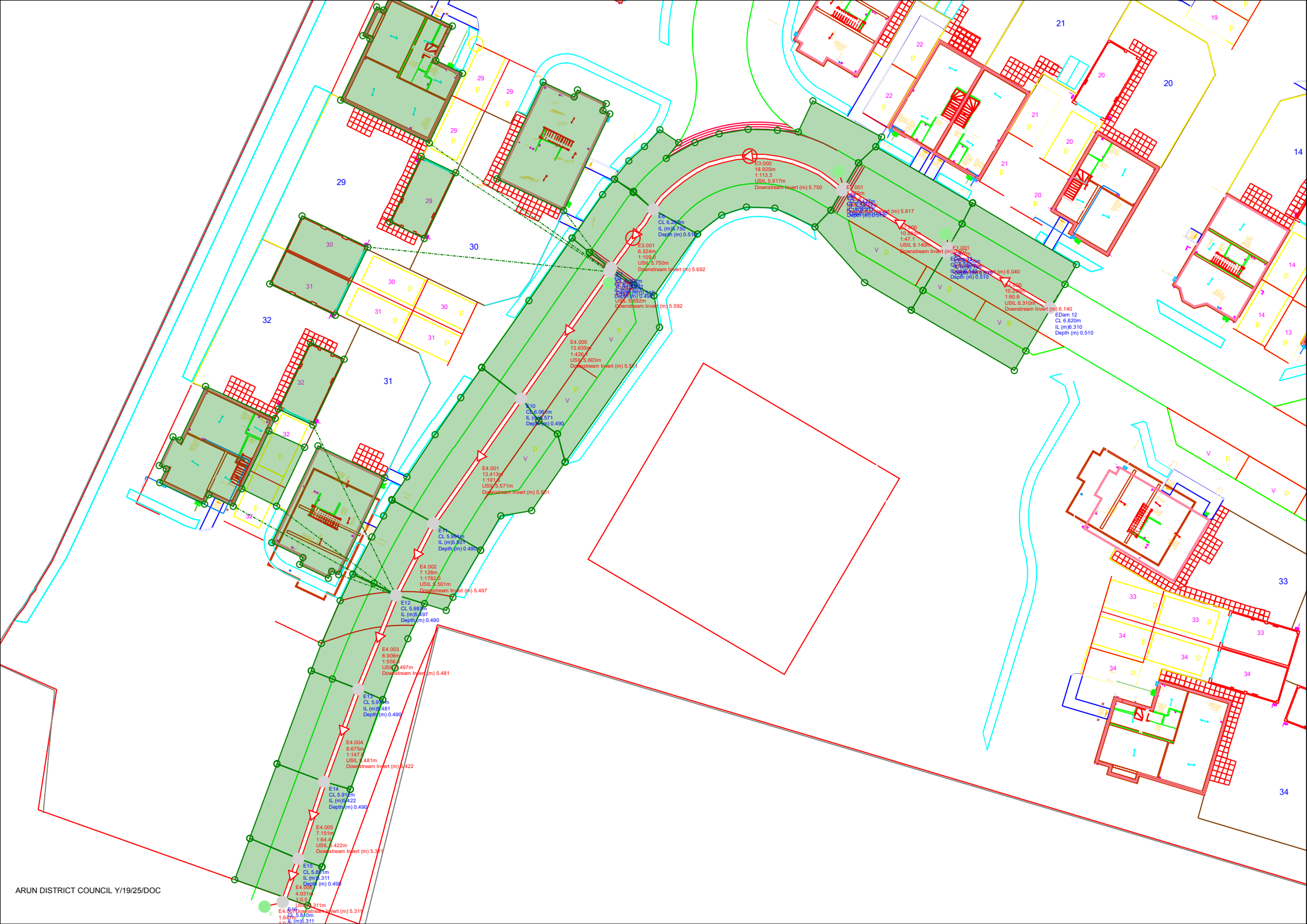




Odyssey		Page 1
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210	
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	

Time Area Diagram for Dam 12 (ch.100) to chainage 210 at outfall E (pipe E1.001)

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.008	4-8	0.004

Total Area Contributing (ha) = 0.011

Total Pipe Volume (m³) = 10.725

Time Area Diagram at outfall E (pipe E2.001)

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.008	4-8	0.003

Total Area Contributing (ha) = 0.011

Total Pipe Volume (m³) = 10.937

Time Area Diagram at outfall E (pipe E3.002)

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.011	4-8	0.010

Total Area Contributing (ha) = 0.021

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Odyssey		Page 2												
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210													
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by													
Innovyze		Network 2020.1.3												
<u>Time Area Diagram at outfall E (pipe E3.002)</u> Total Pipe Volume (m³) = 18.553 <u>Time Area Diagram at outfall E (pipe E4.007)</u> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Time (mins)</th> <th>Area (ha)</th> <th>Time (mins)</th> <th>Area (ha)</th> <th>Time (mins)</th> <th>Area (ha)</th> </tr> </thead> <tbody> <tr> <td>0-4</td> <td>0.032</td> <td>4-8</td> <td>0.054</td> <td>8-12</td> <td>0.009</td> </tr> </tbody> </table> Total Area Contributing (ha) = 0.095 Total Pipe Volume (m³) = 83.359			Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	0-4	0.032	4-8	0.054	8-12	0.009
Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)									
0-4	0.032	4-8	0.054	8-12	0.009									
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Odyssey										Page 3																																																																																																																																																	
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Odyssey										Page 4	
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Date 19/04/2022 12:46					Designed by WindesPC5						
File Road 1_3_chainage 100 to chainage 210.MDX					Checked by						
Innovyze					Network 2020.1.3						

Existing Network Details for Dam 12 (ch.100) to chainage 210

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type
E4.000	13.635	0.032	426.1	0.040	5.00	0.0		0.050	→ ↓ →		Porous Car Park
E4.001	13.413	0.070	191.6	0.013	0.00	0.0		0.050	→ ↓ →		Porous Car Park
E4.002	7.128	0.004	1782.0	0.006	0.00	0.0		0.050	→ ↓ →		Porous Car Park
E4.003	8.906	0.016	556.6	0.023	0.00	0.0		0.050	→ ↓ →		Porous Car Park
E4.004	8.675	0.059	147.0	0.006	0.00	0.0		0.050	→ ↓ →		Porous Car Park
E4.005	7.151	0.111	64.4	0.005	0.00	0.0		0.050	→ ↓ →		Porous Car Park
E4.006	4.031	0.000	0.0	0.003	0.00	0.0		0.050	→ ↓ →		Porous Car Park
E4.007	1.647	0.000	0.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit

Network Results Table

PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)
E4.000	5.603	0.040	0.0	0.23	391.3
E4.001	5.571	0.053	0.0	0.34	484.1
E4.002	5.501	0.059	0.0	0.11	126.1
E4.003	5.497	0.082	0.0	0.20	225.7
E4.004	5.481	0.088	0.0	0.39	439.1
E4.005	5.422	0.093	0.0	0.58	663.4
E4.006	5.311	0.095	0.0	0.00	0.0
E4.007	5.311	0.095	0.0	0.00	0.0

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Odyssey										Page 5	
Tuscany House White Hart Lane Basingstoke RG21 4AF					Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210						
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX					Designed by WindesPC5 Checked by						
Innovyze					Network 2020.1.3						
<u>Manhole Schedules for Dam 12 (ch.100) to chainage 210</u>											
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
EDam 12	6.820	0.510	Open Manhole	250	E1.000	6.310					
E2	6.650	0.510	Open Manhole	250	E1.001	6.140	100	E1.000	6.140		
E	6.650	0.610	Open Manhole	0		OUTFALL		E1.001	6.040	100	
EDam 13	6.650	0.510	Open Manhole	250	E2.000	6.140					
E4	6.427	0.510	Open Manhole	250	E2.001	5.917	100	E2.000	5.917		
E	6.427	0.610	Open Manhole	0		OUTFALL		E2.001	5.817	100	
E5	6.427	0.510	Open Manhole	250	E3.000	5.917					
E6	6.260	0.510	Open Manhole	250	E3.001	5.750		E3.000	5.750		
E7	6.202	0.510	Open Manhole	250	E3.002	5.692	100	E3.001	5.692		
E	6.202	0.610	Open Manhole	0		OUTFALL		E3.002	5.592	100	
E9	6.093	0.490	Open Manhole	1200	E4.000	5.603					
E10	6.061	0.490	Open Manhole	250	E4.001	5.571		E4.000	5.571		
E11	5.991	0.490	Open Manhole	250	E4.002	5.501		E4.001	5.501		
E12	5.987	0.490	Open Manhole	250	E4.003	5.497		E4.002	5.497		
E13	5.971	0.490	Open Manhole	250	E4.004	5.481		E4.003	5.481		
E14	5.912	0.490	Open Manhole	250	E4.005	5.422		E4.004	5.422		
E15	5.801	0.490	Open Manhole	250	E4.006	5.311		E4.005	5.311		
E16	5.810	0.499	Open Manhole	250	E4.007	5.311	100	E4.006	5.311		
E	5.801	0.490	Open Manhole	0		OUTFALL		E4.007	5.311	100	
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Odyssey					Page 6																																																									
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Odyssey					Page 7	
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<u>Manhole Schedules for Dam 12 (ch.100) to chainage 210</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
E6	497712.238	103796.877	497712.238	103796.877	Required	
E7	497708.537	103791.750	497708.537	103791.750	Required	
E	497708.307	103790.394			No Entry	
E9	497708.383	103791.422	497708.383	103791.422	Required	
E10	497700.598	103780.227	497700.598	103780.227	Required	
E11	497692.894	103769.248	497692.894	103769.248	Required	
E12	497689.605	103762.924	497689.605	103762.924	Required	
E13	497686.285	103754.660	497686.285	103754.660	Required	
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Odyssey					Page 8	
Tuscany House White Hart Lane Basingstoke RG21 4AF			Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210			
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Innovyze			Network 2020.1.3			
<u>Manhole Schedules for Dam 12 (ch.100) to chainage 210</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
E14	497683.269	103746.526	497683.269	103746.526	Required	
E15	497681.003	103739.743	497681.003	103739.743	Required	
E16	497679.638	103735.950	497679.638	103735.950	Required	
E	497678.045	103735.533			No Entry	
						
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Odyssey				Page 9		
Tuscany House White Hart Lane Basingstoke RG21 4AF				Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210		
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX				Designed by WindesPC5 Checked by		
Innovyze				Network 2020.1.3		

Micro Drainage

Area Summary for Dam 12 (ch.100) to chainage 210

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	User	-	100	0.011	0.011	0.011
1.001	-	-	100	0.000	0.000	0.000
2.000	User	-	100	0.011	0.011	0.011
2.001	-	-	100	0.000	0.000	0.000
3.000	User	-	100	0.015	0.015	0.015
3.001	User	-	100	0.006	0.006	0.006
3.002	-	-	100	0.000	0.000	0.000
4.000	-	-	100	0.040	0.040	0.040
4.001	User	-	100	0.013	0.013	0.013
4.002	User	-	100	0.006	0.006	0.006
4.003	User	-	100	0.006	0.006	0.006
	User	-	100	0.002	0.002	0.008
	User	-	100	0.006	0.006	0.015
	User	-	100	0.006	0.006	0.021
	User	-	100	0.002	0.002	0.023
4.004	User	-	100	0.006	0.006	0.006
4.005	User	-	100	0.005	0.005	0.005
4.006	User	-	100	0.003	0.003	0.003
4.007	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.138	0.138	0.138

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Odyssey		Page 10
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210	
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by	
Innovyze		Network 2020.1.3

Free Flowing Outfall Details for Dam 12 (ch.100) to chainage 210

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
E1.001	E	6.650	6.040	0.000	0	0

Free Flowing Outfall Details for Dam 12 (ch.100) to chainage 210

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
E2.001	E	6.427	5.817	0.000	0	0

Free Flowing Outfall Details for Dam 12 (ch.100) to chainage 210

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
E3.002	E	6.202	5.592	0.000	0	0

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Odyssey		Page 11														
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210															
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by															
Innovyze	Network 2020.1.3															
<u>Free Flowing Outfall Details for Dam 12 (ch.100) to chainage 210</u> <table border="1"> <thead> <tr> <th>Outfall Pipe Number</th> <th>Outfall Name</th> <th>C. Level (m)</th> <th>I. Level (m)</th> <th>Min I. Level (m)</th> <th>D,L (mm)</th> <th>W (mm)</th> </tr> </thead> <tbody> <tr> <td>E4.007</td> <td>E</td> <td>5.801</td> <td>5.311</td> <td>0.000</td> <td>0</td> <td>0</td> </tr> </tbody> </table>			Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)	E4.007	E	5.801	5.311	0.000	0	0
Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)										
E4.007	E	5.801	5.311	0.000	0	0										
©1982-2020 Innovyze																

Odyssey		Page 12
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210	
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	
<u>Online Controls for Dam 12 (ch.100) to chainage 210</u> <u>Pump Manhole: E2, DS/PN: E1.001, Volume (m³): 10.5</u> Invert Level (m) 6.140 <u>Pump Manhole: E4, DS/PN: E2.001, Volume (m³): 10.7</u> Invert Level (m) 5.917 <u>Pump Manhole: E7, DS/PN: E3.002, Volume (m³): 4.5</u> Invert Level (m) 5.692 <u>Pump Manhole: E16, DS/PN: E4.007, Volume (m³): 4.3</u> Invert Level (m) 5.311		
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Odyssey		Page 13
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210	
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	
<u>Offline Controls for Dam 12 (ch.100) to chainage 210</u> <u>Weir Manhole: E2, DS/PN: E1.001, Loop to PN: E2.000</u> Discharge Coef 0.544 Width (m) 6.800 Invert Level (m) 6.640 <u>Weir Manhole: E4, DS/PN: E2.001, Loop to PN: E3.000</u> Discharge Coef 0.544 Width (m) 6.800 Invert Level (m) 6.426 <u>Weir Manhole: E7, DS/PN: E3.002, Loop to PN: E4.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 6.201		
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Odyssey		Page 14																																																																																										
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<u>Storage Structures for Dam 12 (ch.100) to chainage 210</u> <u>Porous Car Park Pipe: E1.000</u> <table> <tr> <td>Manning's N</td> <td>0.075</td> <td>Porosity</td> <td>0.30</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Invert Level (m)</td> <td>6.310</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Width (m)</td> <td>6.8</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>19.5</td> <td>Length (m)</td> <td>10.3</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>60.6</td> <td></td> <td></td> </tr> </table> <u>Porous Car Park Pipe: E2.000</u> <table> <tr> <td>Manning's N</td> <td>0.075</td> <td>Porosity</td> <td>0.30</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Invert Level (m)</td> <td>6.140</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Width (m)</td> <td>6.8</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>19.8</td> <td>Length (m)</td> <td>10.5</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>47.1</td> <td></td> <td></td> </tr> </table> <u>Porous Car Park Pipe: E3.000</u> <table> <tr> <td>Manning's N</td> <td>0.075</td> <td>Porosity</td> <td>0.30</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Invert Level (m)</td> <td>5.917</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Width (m)</td> <td>4.8</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>25.2</td> <td>Length (m)</td> <td>18.9</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>113.3</td> <td></td> <td></td> </tr> </table>			Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5	Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	6.310	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	6.8	Membrane Depth (mm)	0	Max Percolation (l/s)	19.5	Length (m)	10.3			Safety Factor	2.0	Slope (1:X)	60.6			Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5	Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	6.140	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	6.8	Membrane Depth (mm)	0	Max Percolation (l/s)	19.8	Length (m)	10.5			Safety Factor	2.0	Slope (1:X)	47.1			Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5	Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	5.917	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	0	Max Percolation (l/s)	25.2	Length (m)	18.9			Safety Factor	2.0	Slope (1:X)	113.3		
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Odyssey		Page 15
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Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	
<u>Porous Car Park Pipe: E3.001</u> Manning's N 0.075 Porosity 0.30 Depression Storage (mm) 5 Infiltration Coefficient Base (m/hr) 0.00648 Invert Level (m) 5.750 Evaporation (mm/day) 3 Membrane Percolation (mm/hr) 1000 Width (m) 4.8 Membrane Depth (mm) 0 Max Percolation (l/s) 8.4 Length (m) 6.3 Safety Factor 2.0 Slope (1:X) 109.0 <u>Porous Car Park Pipe: E4.000</u> Manning's N 0.050 Porosity 0.95 Depression Storage (mm) 5 Infiltration Coefficient Base (m/hr) 0.00648 Invert Level (m) 5.603 Evaporation (mm/day) 3 Membrane Percolation (mm/hr) 1000 Width (m) 7.2 Membrane Depth (mm) 240 Max Percolation (l/s) 27.3 Length (m) 13.6 Safety Factor 2.0 Slope (1:X) 426.1 <u>Porous Car Park Manhole: E10, DS/PN: E4.001</u> Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.30 Slope (1:X) 426.1 Membrane Percolation (mm/hr) 1000 Invert Level (m) 5.821 Depression Storage (mm) 5 Max Percolation (l/s) 27.2 Width (m) 7.2 Evaporation (mm/day) 3 Safety Factor 2.0 Length (m) 13.6 Membrane Depth (mm) 0 <u>Porous Car Park Pipe: E4.001</u> Manning's N 0.050 Safety Factor 2.0 Length (m) 13.4 Infiltration Coefficient Base (m/hr) 0.00648 Porosity 0.95 Slope (1:X) 191.6 Membrane Percolation (mm/hr) 1000 Invert Level (m) 5.571 Depression Storage (mm) 5 Max Percolation (l/s) 22.4 Width (m) 6.0 Evaporation (mm/day) 3		
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Odyssey		Page 16																																																																														
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<u>Porous Car Park Pipe: E4.001</u> Membrane Depth (mm) 240 <u>Porous Car Park Manhole: E11, DS/PN: E4.002</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Porosity</td> <td>0.30</td> <td>Slope (1:X)</td> <td>191.6</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Invert Level (m)</td> <td>5.751</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>22.3</td> <td>Width (m)</td> <td>6.0</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Length (m)</td> <td>13.4</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> </table> <u>Porous Car Park Pipe: E4.002</u> <table> <tr> <td>Manning's N</td> <td>0.050</td> <td>Porosity</td> <td>0.95</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Invert Level (m)</td> <td>5.501</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Width (m)</td> <td>4.8</td> <td>Membrane Depth (mm)</td> <td>240</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>9.5</td> <td>Length (m)</td> <td>7.1</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>1782.0</td> <td></td> <td></td> </tr> </table> <u>Porous Car Park Manhole: E12, DS/PN: E4.003</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Porosity</td> <td>0.30</td> <td>Slope (1:X)</td> <td>1782.0</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Invert Level (m)</td> <td>5.747</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>9.5</td> <td>Width (m)</td> <td>4.8</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Length (m)</td> <td>7.1</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.30	Slope (1:X)	191.6	Membrane Percolation (mm/hr)	1000	Invert Level (m)	5.751	Depression Storage (mm)	5	Max Percolation (l/s)	22.3	Width (m)	6.0	Evaporation (mm/day)	3	Safety Factor	2.0	Length (m)	13.4	Membrane Depth (mm)	0	Manning's N	0.050	Porosity	0.95	Depression Storage (mm)	5	Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	5.501	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	240	Max Percolation (l/s)	9.5	Length (m)	7.1			Safety Factor	2.0	Slope (1:X)	1782.0			Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.30	Slope (1:X)	1782.0	Membrane Percolation (mm/hr)	1000	Invert Level (m)	5.747	Depression Storage (mm)	5	Max Percolation (l/s)	9.5	Width (m)	4.8	Evaporation (mm/day)	3	Safety Factor	2.0	Length (m)	7.1	Membrane Depth (mm)	0
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Odyssey		Page 17
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Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX	Designed by WindesPC5 Checked by	
Innovyze Network 2020.1.3		

Porous Car Park Pipe: E4.003

Manning's N	0.050	Porosity	0.95	Depression Storage (mm)	5
Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	5.497	Evaporation (mm/day)	3
Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	240
Max Percolation (l/s)	11.9	Length (m)	8.9		
Safety Factor	2.0	Slope (1:X)	556.6		

Porous Car Park Manhole: E13, DS/PN: E4.004

Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.30	Slope (1:X)	556.6
Membrane Percolation (mm/hr)	1000	Invert Level (m)	5.731	Depression Storage (mm)	5
Max Percolation (l/s)	11.9	Width (m)	4.8	Evaporation (mm/day)	3
Safety Factor	2.0	Length (m)	8.9	Membrane Depth (mm)	0

Porous Car Park Pipe: E4.004

Manning's N	0.050	Porosity	0.95	Depression Storage (mm)	5
Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	5.481	Evaporation (mm/day)	3
Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	240
Max Percolation (l/s)	11.6	Length (m)	8.7		
Safety Factor	2.0	Slope (1:X)	147.0		

Porous Car Park Manhole: E14, DS/PN: E4.005

Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.30	Slope (1:X)	147.0
Membrane Percolation (mm/hr)	1000	Invert Level (m)	5.672	Depression Storage (mm)	5
Max Percolation (l/s)	11.6	Width (m)	4.8	Evaporation (mm/day)	3
Safety Factor	2.0	Length (m)	8.7	Membrane Depth (mm)	0

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Odyssey		Page 18			
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210				
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<u>Porous Car Park Pipe: E4.005</u>					
Manning's N	0.050	Porosity	0.95	Depression Storage (mm)	5
Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	5.422	Evaporation (mm/day)	3
Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	240
Max Percolation (l/s)	9.5	Length (m)	7.2		
Safety Factor	2.0	Slope (1:X)	64.4		
<u>Porous Car Park Manhole: E15, DS/PN: E4.006</u>					
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.30	Slope (1:X)	64.4
Membrane Percolation (mm/hr)	1000	Invert Level (m)	5.561	Depression Storage (mm)	5
Max Percolation (l/s)	9.6	Width (m)	4.8	Evaporation (mm/day)	3
Safety Factor	2.0	Length (m)	7.2	Membrane Depth (mm)	0
<u>Porous Car Park Pipe: E4.006</u>					
Manning's N	0.050	Porosity	0.95	Depression Storage (mm)	5
Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	5.311	Evaporation (mm/day)	3
Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	240
Max Percolation (l/s)	5.4	Length (m)	4.0		
Safety Factor	2.0	Slope (1:X)	0.0		
<u>Porous Car Park Manhole: E16, DS/PN: E4.007</u>					
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.30	Slope (1:X)	0.0
Membrane Percolation (mm/hr)	1000	Invert Level (m)	5.561	Depression Storage (mm)	5
Max Percolation (l/s)	5.3	Width (m)	4.8	Evaporation (mm/day)	3
Safety Factor	2.0	Length (m)	4.0	Membrane Depth (mm)	0
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Odyssey		Page 19
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210	
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Innovyze	Network 2020.1.3	

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Dam 12 (ch.100) to chainage 210

Simulation Criteria

Areal Reduction Factor	1.000	Manhole Headloss Coeff (Global)	0.500	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Foul Sewage per hectare (l/s)	0.000	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Additional Flow - % of Total Flow	0.000	Flow per Person per Day (l/per/day)	0.000

Number of Input Hydrographs	0	Number of Offline Controls	3	Number of Time/Area Diagrams	0
Number of Online Controls	4	Number of Storage Structures	18	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FEH	Data Type	Point
FEH Rainfall Version	2013	Cv (Summer)	0.750
Site Location	GB 497682 103581 SU 97682 03581	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	2.5 Second Increment (Extended)	Inertia Status	OFF
DTS Status			ON

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	100
Climate Change (%)	40

Water Flooded				Maximum Pipe		
US/MH	US/CL	Level	Volume	Flow / Overflow	Maximum Velocity	Pipe Flow
PN	Name	Event	(m)	(m³)	Cap. Vol (m³)	Vol (m³) (m/s) (l/s) Status

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Odyssey										Page 20					
Tuscany House White Hart Lane Basingstoke RG21 4AF							Stakers Farm, Yapton - 19-156 As built - chainage 100 to 210								
Date 19/04/2022 12:46 File Road 1_3_chainage 100 to chainage 210.MDX							Designed by WindesPC5 Checked by								
Innovyze							Network 2020.1.3								
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Dam 12 (ch.100) to chainage 210</u>															
PN	US/MH Name	Event	US/CL (m)	Water Flooded			Flow / Cap.	Overflow Vol (m³)	Maximum Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status			
				Level (m)	Volume (m³)	Flow									
E1.000	EDam 12	720 minute 100 year Winter I+40%	6.820	6.609	0.000	0.00			0.014	0.0	0.3	FLOOD RISK			
E1.001	E2	720 minute 100 year Winter I+40%	6.650	6.610	0.000	0.00	0.000		7.805	0.0	0.0	FLOOD RISK			
E2.000	EDam 13	600 minute 100 year Winter I+40%	6.650	6.386	0.000	0.00			0.012	0.1	0.3	FLOOD RISK			
E2.001	E4	600 minute 100 year Winter I+40%	6.427	6.387	0.000	0.00	0.000		7.399	0.0	0.0	FLOOD RISK			
E3.000	E5	720 minute 100 year Winter I+40%	6.427	6.202	0.000	0.00			0.014	0.0	0.4	FLOOD RISK			
E3.001	E6	720 minute 100 year Winter I+40%	6.260	6.202	0.000	0.00			9.802	0.0	0.3	FLOOD RISK			
E3.002	E7	720 minute 100 year Winter I+40%	6.202	6.202	0.378	0.00	0.050		4.549	0.0	0.0	FLOOD (x)			
E4.000	E9	1440 minute 100 year Winter I+40%	6.093	5.774	0.000	0.01			0.188	0.0	2.1	OK			
E4.001	E10	1440 minute 100 year Winter I+40%	6.061	5.774	0.000	0.01			16.065	0.1	4.5	FLOOD RISK			
E4.002	E11	1440 minute 100 year Winter I+40%	5.991	5.775	0.000	0.01			16.343	0.0	3.0	FLOOD RISK			
E4.003	E12	1440 minute 100 year Winter I+40%	5.987	5.775	0.000	0.01			7.687	0.0	2.2	FLOOD RISK			
E4.004	E13	1440 minute 100 year Winter I+40%	5.971	5.776	0.000	0.01			10.123	0.1	2.1	FLOOD RISK			
E4.005	E14	1440 minute 100 year Winter I+40%	5.912	5.776	0.000	0.00			10.545	0.1	2.6	FLOOD RISK			
E4.006	E15	1440 minute 100 year Winter I+40%	5.801	5.777	0.000	0.00			9.546	0.0	1.5	FLOOD RISK			
E4.007	E16	1440 minute 100 year Winter I+40%	5.810	5.777	0.000	0.00			5.576	0.0	0.0	FLOOD RISK			
(x) - FLOODING FROM UPSTREAM SECTION WILL BE ROUTED OVERLAND INTO THE NEXT PERMEABLE PAVING SECTION DOWNSTREAM WITH NO FLOODING SHOWN IN THE LAST SECTION THUS NO FLOODING OFF-SITE, THEREFORE THE SCHEME WILL WORK SATISFACTORILY															
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