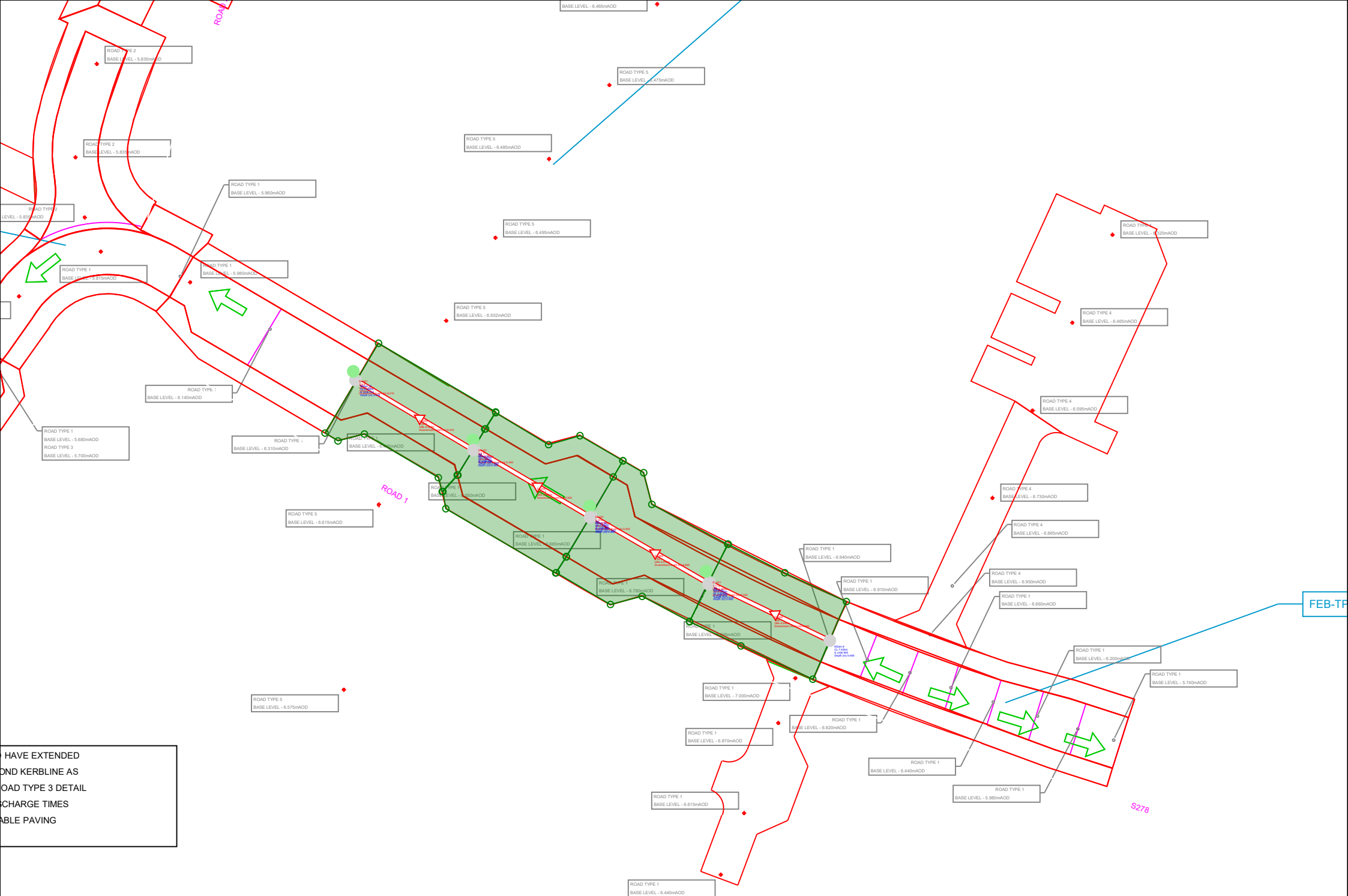




HAVE EXTENDED
AND KERBLINE AS
ROAD TYPE 3 DETAIL
CHARGE TIMES
ABLE PAVING

Odyssey		Page 1																								
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 45 to 100																									
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Odyssey

Tuscany House

White Hart Lane

Basingstoke RG21 4AF

Date 19/04/2022 13:09

File Road 1_dams 8 to 12.MDX

Innovyze

Stakers Farm, Yapton - 19-156

As built - chainage 45 to 100

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Network 2020.1.3

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Manhole Schedules for Existing

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 8	7.435	0.495	Open Manhole	250	E1.000	6.940					
E2	7.310	0.510	Open Manhole	250	E1.001	6.800	100	E1.000	6.800		
E	7.310	0.610	Open Manhole	0		OUTFALL		E1.001	6.700	100	
EDam 9	7.310	0.492	Open Manhole	250	E2.000	6.818					
E4	7.157	0.492	Open Manhole	250	E2.001	6.665	100	E2.000	6.665		
E	7.157	0.592	Open Manhole	0		OUTFALL		E2.001	6.565	100	
EDam 10	7.157	0.492	Open Manhole	250	E3.000	6.665					
E6	7.045	0.495	Open Manhole	250	E3.001	6.550	100	E3.000	6.550		
E	7.045	0.595	Open Manhole	0		OUTFALL		E3.001	6.450	100	
EDam 11	7.045	0.495	Open Manhole	250	E4.000	6.550					
EDam 12	6.828	0.518	Open Manhole	250	E4.001	6.310	100	E4.000	6.310		
E	6.828	0.618	Open Manhole	0		OUTFALL		E4.001	6.210	100	

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
EDam 8	497796.296	103761.183	497796.296	103761.183	Required	

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Odyssey					Page 6	
Tuscany House White Hart Lane Basingstoke RG21 4AF			Stakers Farm, Yapton - 19-156 As built - chainage 45 to 100			
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Innovyze			Network 2020.1.3			
<u>Manhole Schedules for Existing</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
E2	497783.808	103767.237	497783.808	103767.237	Required	
E	497783.463	103768.376			No Entry	
EDam 9	497783.731	103767.045	497783.731	103767.045	Required	
E4	497771.547	103774.117	497771.547	103774.117	Required	
E	497771.391	103775.120			No Entry	
EDam 10	497771.467	103773.979	497771.467	103773.979	Required	
E6	497759.430	103781.071	497759.430	103781.071	Required	
E	497759.304	103781.996			No Entry	
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Odyssey					Page 7	
Tuscany House White Hart Lane Basingstoke RG21 4AF			Stakers Farm, Yapton - 19-156 As built - chainage 45 to 100			
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<u>Manhole Schedules for Existing</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
EDam 11	497759.349	103780.938	497759.349	103780.938	Required	
EDam 12	497747.126	103788.201	497747.126	103788.201	Required	
E	497746.895	103789.111			No Entry	

Odyssey				Page 8																																																																																																												
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3.000	User	-	100	0.017	0.017	0.017																																																																																																										
3.001	-	-	100	0.000	0.000	0.000																																																																																																										
4.000	User	-	100	0.013	0.013	0.013																																																																																																										
4.001	-	-	100	0.000	0.000	0.000																																																																																																										
				Total	Total	Total																																																																																																										
				0.058	0.058	0.058																																																																																																										
Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)																																																																																																										
E1.001	E	7.310	6.700	0.000	0	0																																																																																																										
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E2.001	E	7.157	6.565	0.000	0	0																																																																																																										
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Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 45 to 100	
Date 19/04/2022 13:09 File Road 1_dams 8 to 12.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	

Free Flowing Outfall Details for Existing

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
E3.001	E	7.045	6.450	0.000	0	0

Free Flowing Outfall Details for Existing

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
E4.001	E	6.828	6.210	0.000	0	0

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Innovyze	Network 2020.1.3	
<u>Online Controls for Existing</u> <u>Pump Manhole: E2, DS/PN: E1.001, Volume (m³): 9.7</u> Invert Level (m) 6.800 <u>Pump Manhole: E4, DS/PN: E2.001, Volume (m³): 14.5</u> Invert Level (m) 6.665 <u>Pump Manhole: E6, DS/PN: E3.001, Volume (m³): 14.4</u> Invert Level (m) 6.550 <u>Pump Manhole: EDam 12, DS/PN: E4.001, Volume (m³): 10.0</u> Invert Level (m) 6.310		
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Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 45 to 100	
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<u>Offline Controls for Existing</u> <u>Weir Manhole: E2, DS/PN: E1.001, Loop to PN: E2.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 7.310 <u>Weir Manhole: E4, DS/PN: E2.001, Loop to PN: E3.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 7.157 <u>Weir Manhole: E6, DS/PN: E3.001, Loop to PN: E4.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 7.045		
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<u>Storage Structures for Existing</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>6.940</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>18.5</td> <td>Length (m)</td> <td>13.9</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>99.1</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>6.818</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>7.1</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>27.8</td> <td>Length (m)</td> <td>14.1</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>92.1</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>6.665</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>7.1</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>27.6</td> <td>Length (m)</td> <td>14.0</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>121.5</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)	6.940	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	0	Max Percolation (l/s)	18.5	Length (m)	13.9			Safety Factor	2.0	Slope (1:X)	99.1			Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5	Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	6.818	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	7.1	Membrane Depth (mm)	0	Max Percolation (l/s)	27.8	Length (m)	14.1			Safety Factor	2.0	Slope (1:X)	92.1			Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5	Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	6.665	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	7.1	Membrane Depth (mm)	0	Max Percolation (l/s)	27.6	Length (m)	14.0			Safety Factor	2.0	Slope (1:X)	121.5		
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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Existing

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	4	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 /	Maximum	Velocity	Flow
PN Name Event	(m)	(m)	(m³)	Cap. Vol (m³)	(m/s)	(l/s)	Status

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Tuscany House White Hart Lane Basingstoke RG21 4AF							Stakers Farm, Yapton - 19-156 As built - chainage 45 to 100						
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<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Existing</u>													
PN	US/MH Name	Event				US/CL (m)	Water Level (m)	Flooded Volume (m³)	Flow / Cap.	Maximum Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
E1.000	EDam 8	600 minute	100 year	Winter	I+40%	7.435	7.298	0.000	0.00	0.017	0.0	0.4	FLOOD RISK
E1.001	E2	600 minute	100 year	Winter	I+40%	7.310	7.298	0.000	0.00	8.315	0.0	0.0	FLOOD RISK
E2.000	EDam 9	600 minute	100 year	Winter	I+40%	7.310	7.083	0.000	0.00	0.013	0.0	0.5	FLOOD RISK
E2.001	E4	600 minute	100 year	Winter	I+40%	7.157	7.084	0.000	0.00	9.951	0.0	0.0	FLOOD RISK
E3.000	EDam 10	600 minute	100 year	Winter	I+40%	7.157	7.004	0.000	0.00	0.016	0.0	0.5	FLOOD RISK
E3.001	E6	600 minute	100 year	Winter	I+40%	7.045	7.004	0.000	0.00	11.451	0.0	0.0	FLOOD RISK
E4.000	EDam 11	720 minute	100 year	Winter	I+40%	7.045	6.826	0.000	0.00	0.013	0.0	0.4	FLOOD RISK
E4.001	EDam 12	720 minute	100 year	Winter	I+40%	6.828	6.826	0.000	0.00	7.833	0.0	0.0	FLOOD RISK
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