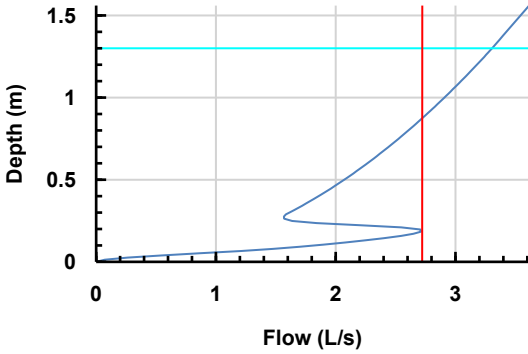


Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		



Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
MH-05	Outlet	OF 1-2.000	Free Discharge
MH-01	Outlet	OF 1-1.000	Free Discharge
MH-07	Outlet	OF 1-2.003	Free Discharge
MH-02	Outlet	OF 1-1.001	Free Discharge
MH-08	Outlet	OF 1-2.004	Free Discharge
MH-3	Outlet	OF 1-1.003	Free Discharge
MH-11	Outlet	OF 1-1.005	Orifice
	Diameter (m)	0.085	
	Coefficient of Discharge	0.600	
	Invert Level (m)	66.313	
OF 1-13	Outlet	OF 1-5.000	Free Discharge
OF 1-16	Outlet	OF 1-7.000	Free Discharge
OF 1-14	Outlet	OF 1-5.002	Free Discharge
OF 1-17	Outlet	OF 1-7.002	Free Discharge
MH-15	Outlet	OF 1-5.004	Orifice
	Diameter (m)	0.040	
	Coefficient of Discharge	0.600	
	Invert Level (m)	66.373	
MH-06	Outlet	OF 1-2.001	Free Discharge
MH-09	Outlet	OF 1-2.006	Orifice
	Diameter (m)	0.090	
	Coefficient of Discharge	0.600	
	Invert Level (m)	66.758	
MH-10	Outlet	OF 1-2.007	Orifice
	Diameter (m)	0.075	
	Coefficient of Discharge	0.600	
	Invert Level (m)	66.701	
MH-4	Outlet	OF 1-1.004	Free Discharge
MH-18	Outlet	OF 1-7.004	Orifice
	Diameter (m)	0.050	
	Coefficient of Discharge	0.600	
	Invert Level (m)	66.427	
MH12	Outlet	Outfall (1)	Hydro-Brake®
	Invert Level (m)	66.000	
	Design Depth (m)	1.300	
	Design Flow (L/s)	3.3	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☐	
	Unit Reference	CHE-0078-3300-1300-3300	
			

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (29)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	68.603
Depth (m)	1.300
Base Level (m)	67.303
Freeboard (mm)	200
Porosity (%)	30
Length (m)	11.778
Long. Slope (1:X)	100.00
Width (m)	3.928
Total Volume (m³)	15.412

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (31)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	68.478
Depth (m)	1.300
Base Level (m)	67.178
Freeboard (mm)	200
Porosity (%)	30
Length (m)	11.970
Long. Slope (1:X)	80.00
Width (m)	3.942
Total Volume (m³)	15.721

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (38)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.958
Depth (m)	1.300
Base Level (m)	66.658
Freeboard (mm)	200
Porosity (%)	30
Length (m)	47.730
Long. Slope (1:X)	500.00
Width (m)	3.143
Total Volume (m³)	50.098

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (39)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.894
Depth (m)	1.300
Base Level (m)	66.594
Freeboard (mm)	200
Porosity (%)	30
Length (m)	47.703
Long. Slope (1:X)	300.00
Width (m)	3.141
Total Volume (m³)	50.042

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (40)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.690
Depth (m)	1.300
Base Level (m)	66.390
Freeboard (mm)	200
Porosity (%)	30
Length (m)	39.846
Long. Slope (1:X)	200.00
Width (m)	3.249
Total Volume (m³)	43.210

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (41)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.650
Depth (m)	1.300
Base Level (m)	66.350
Freeboard (mm)	200
Porosity (%)	30
Length (m)	40.010
Long. Slope (1:X)	200.00
Width (m)	3.237
Total Volume (m³)	43.233

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (42)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	68.150
Depth (m)	1.300
Base Level (m)	66.850
Freeboard (mm)	200
Porosity (%)	30
Length (m)	11.483
Long. Slope (1:X)	80.00
Width (m)	3.122
Total Volume (m³)	11.973

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (43)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	68.003
Depth (m)	1.300
Base Level (m)	66.703
Freeboard (mm)	200
Porosity (%)	30
Length (m)	11.278
Long. Slope (1:X)	500.00
Width (m)	3.123
Total Volume (m³)	11.760

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	68.300
Depth (m)	1.300
Base Level (m)	67.000
Freeboard (mm)	200
Porosity (%)	30
Length (m)	16.959
Long. Slope (1:X)	500.00
Width (m)	4.425
Total Volume (m³)	24.972

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (1)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	68.114
Depth (m)	1.300
Base Level (m)	66.814
Freeboard (mm)	200
Porosity (%)	30
Length (m)	53.265
Long. Slope (1:X)	500.00
Width (m)	4.802
Total Volume (m³)	85.061

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (2)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.950
Depth (m)	1.300
Base Level (m)	66.650
Freeboard (mm)	200
Porosity (%)	30
Length (m)	20.738
Long. Slope (1:X)	150.00
Width (m)	4.413
Total Volume (m³)	30.455

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details:	Company Address:			
Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Arcadis			



T1

Type : Cellular Storage

Dimensions	
Exceedance Level (m)	67.300
Depth (m)	1.000
Base Level (m)	66.000
Number of Crates Long	52
Number of Crates Wide	10
Number of Crates High	2
Porosity (%)	96
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.5
Total Volume (m³)	249.900

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Connections Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		



Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
OF 1-5.000	2.453	Pipe	204.425		0.6	150	68.056	66.890
OF 1-7.000	2.288	Pipe	31.779		0.6	150	68.051	66.950
OF 1-5.001	2.565	Pipe	52.028		0.6	150	68.053	66.783
OF 1-7.001	2.895	Pipe	125.855		0.6	150	68.053	66.719
OF 1-5.002	3.209	Pipe	150.000		0.6	150	68.269	66.734
OF 1-7.002	2.709	Pipe	129.011		0.6	150	68.261	66.696
OF 1-5.003	3.589	Pipe	25.276		0.6	150	67.889	66.515
OF 1-6.000	3.287	Pipe	5.460		0.6	150	68.294	66.975
OF 1-2.000	22.866	Pipe	160.000		0.6	225	68.197	67.314
OF 1-1.000	30.984	Pipe	200.000		0.6	225	68.191	67.220
OF 1-2.003	29.582	Pipe	200.000		0.6	225	68.395	67.109
OF 1-1.001	3.463	Pipe	173.149		0.6	150	68.376	67.065
OF 1-1.002	3.848	Pipe	150.000		0.6	150	68.221	66.939
OF 1-2.005	2.607	Pipe	150.000		0.6	150	68.088	66.775
OF 1-2.004	3.186	Pipe	66.374		0.6	150	68.581	66.961
OF 1-2.001	2.028	Pipe	156.018		0.6	150	68.335	67.171
OF 1-2.002	2.412	Pipe	150.000		0.6	150	68.334	67.125
OF 1-2.006	8.635	Pipe	200.000		0.6	225	68.638	66.758
OF 1-2.007	12.912	Pipe	248.313		0.6	300	68.623	66.701
OF 1-1.004	39.507	Pipe	117.580		0.6	225	68.615	66.649
OF 1-1.003	8.904	Pipe	33.729		0.6	300	68.629	66.913
OF 1-3.000	3.895	Pipe	5.357		0.6	150	68.721	67.428
OF 1-4.000	4.241	Pipe	6.484		0.6	150	68.628	67.303
OF 1-7.003	3.518	Pipe	73.285		0.6	150	67.850	66.475
OF 1-8.000	2.377	Pipe	5.927		0.6	150	68.025	66.828
OF 1-7.004	8.109	Pipe	150.176		0.6	300	68.261	66.427
OF 1-5.004	35.148	Pipe	94.230		0.6	450	68.271	66.373
OF 1-1.005	46.126	Pipe	147.367		0.6	225	67.518	66.313
Outfall	5.755	Pipe	115.093		0.6	150	67.300	66.050
Outfall (1)	5.862	Pipe	86.465		0.6	150	67.300	66.000

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Part Family	Lock	Min. Cover Depth (m)	Flow Restriction (L/s)	Velocity (m/s)
OF 1-5.000	68.053	66.878		All	0.000		
OF 1-7.000	68.053	66.878		All	0.000		
OF 1-5.001	68.269	66.734		All	0.000	3.26	
OF 1-7.001	68.261	66.696		All	0.000	3.26	
OF 1-5.002	67.889	66.713		All	0.000		
OF 1-7.002	67.850	66.675		All	0.000		
OF 1-5.003	68.271	66.373		All	0.000		
OF 1-6.000	68.271	66.373		All	0.000		
OF 1-2.000	68.335	67.171		All	0.000		
OF 1-1.000	68.376	67.065		All	0.000		
OF 1-2.003	68.581	66.961		All	0.000		
OF 1-1.001	68.221	67.045		All	0.000		
OF 1-1.002	68.629	66.913		All	0.000	6.15	
OF 1-2.005	68.638	66.758		All	0.000		
OF 1-2.004	68.088	66.913		All	0.000		
OF 1-2.001	68.334	67.158		All	0.000		
OF 1-2.002	68.395	67.109		All	0.000	4.13	
OF 1-2.006	68.623	66.714		All	0.000	22.91	
OF 1-2.007	68.615	66.649		All	0.000	16.12	
OF 1-1.004	67.518	66.313		All	0.000		
OF 1-1.003	68.615	66.649		All	0.000		
OF 1-3.000	68.623	66.701		All	0.000		
OF 1-4.000	68.615	66.649		All	0.000		
OF 1-7.003	68.261	66.427		All	0.000		
OF 1-8.000	68.261	66.427		All	0.000	3.26	
OF 1-7.004	68.271	66.373		All	0.000	7.02	
OF 1-5.004	67.240	66.000		All	0.000	4.58	
OF 1-1.005	67.240	66.000		All	0.000	16.26	
Outfall	67.300	66.000		All	0.000		
Outfall (1)	66.300	65.932		All	0.000	3.31	

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	Company Address: Arcadis			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☒
Rainfall Depth (mm)	1.0
Run Time (mins)	1440

Rainfall

FEH	Type: FEH
Site Location	GB 525050 138350 TQ 25050 38350
Rainfall Version	2022
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
5.0	0.000
10.0	0.000
30.0	0.000
100.0	40.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
720	1440
960	1920

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		



FEH: 5 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area (32)	FEH: 5 years: +0 %: 15 mins: Winter	0.03	7.4	3.425
Catchment Area (33)	FEH: 5 years: +0 %: 15 mins: Winter	0.03	7.5	3.464
Catchment Area (104)	FEH: 5 years: +0 %: 15 mins: Winter	0.04	8.6	3.991
Catchment Area (105)	FEH: 5 years: +0 %: 15 mins: Winter	0.05	11.6	5.345
Catchment Area (107)	FEH: 5 years: +0 %: 15 mins: Winter	0.09	18.7	8.632
Catchment Area (108)	FEH: 5 years: +0 %: 15 mins: Winter	0.04	7.9	3.643
Catchment Area (110)	FEH: 5 years: +0 %: 15 mins: Winter	0.04	8.7	4.030
Catchment Area (111)	FEH: 5 years: +0 %: 15 mins: Winter	0.04	9.2	4.276
Catchment Area	FEH: 5 years: +0 %: 15 mins: Winter	0.03	5.8	2.688
Catchment Area (1)	FEH: 5 years: +0 %: 15 mins: Winter	0.03	5.8	2.658
Catchment Area (2)	FEH: 5 years: +0 %: 15 mins: Winter	0.02	3.9	1.810
Catchment Area (3)	FEH: 5 years: +0 %: 15 mins: Winter	0.02	3.4	1.558
Catchment Area (4)	FEH: 5 years: +0 %: 15 mins: Winter	0.02	4.8	2.205
Catchment Area (5)	FEH: 5 years: +0 %: 15 mins: Winter	0.04	8.9	4.132
Catchment Area (6)	FEH: 5 years: +0 %: 15 mins: Winter	0.04	8.6	3.955
Catchment Area (7)	FEH: 5 years: +0 %: 15 mins: Winter	0.03	6.1	2.810

Project: West of Ifield Phase 1A	Date: 27/11/2023			
Report Details: Type: Inflows Summary Storm Phase: Outfall-1 without Pond	Designed by: D.Samuel	Checked by:	Approved By:	
	Company Address: Arcadis			



FEH: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Inflows Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area (32)	FEH: 10 years: +0 %: 15 mins: Winter	0.03	9.3	4.282
Catchment Area (33)	FEH: 10 years: +0 %: 15 mins: Winter	0.03	9.4	4.330
Catchment Area (104)	FEH: 10 years: +0 %: 15 mins: Winter	0.04	10.8	4.986
Catchment Area (105)	FEH: 10 years: +0 %: 15 mins: Winter	0.05	14.5	6.682
Catchment Area (107)	FEH: 10 years: +0 %: 15 mins: Winter	0.09	23.4	10.789
Catchment Area (108)	FEH: 10 years: +0 %: 15 mins: Winter	0.04	9.8	4.551
Catchment Area (110)	FEH: 10 years: +0 %: 15 mins: Winter	0.04	10.9	5.037
Catchment Area (111)	FEH: 10 years: +0 %: 15 mins: Winter	0.04	11.6	5.339
Catchment Area	FEH: 10 years: +0 %: 15 mins: Winter	0.03	7.3	3.359
Catchment Area (1)	FEH: 10 years: +0 %: 15 mins: Winter	0.03	7.2	3.323
Catchment Area (2)	FEH: 10 years: +0 %: 15 mins: Winter	0.02	4.9	2.259
Catchment Area (3)	FEH: 10 years: +0 %: 15 mins: Winter	0.02	4.2	1.951
Catchment Area (4)	FEH: 10 years: +0 %: 15 mins: Winter	0.02	6.0	2.754
Catchment Area (5)	FEH: 10 years: +0 %: 15 mins: Winter	0.04	11.2	5.168
Catchment Area (6)	FEH: 10 years: +0 %: 15 mins: Winter	0.04	10.7	4.944
Catchment Area (7)	FEH: 10 years: +0 %: 15 mins: Winter	0.03	7.6	3.512

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Inflows Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis			



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Inflows Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis			

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area (32)	FEH: 30 years: +0 %: 15 mins: Winter	0.03	12.1	5.579
Catchment Area (33)	FEH: 30 years: +0 %: 15 mins: Winter	0.03	12.2	5.636
Catchment Area (104)	FEH: 30 years: +0 %: 15 mins: Winter	0.04	14.1	6.502
Catchment Area (105)	FEH: 30 years: +0 %: 15 mins: Winter	0.05	18.8	8.701
Catchment Area (107)	FEH: 30 years: +0 %: 15 mins: Winter	0.09	30.4	14.055
Catchment Area (108)	FEH: 30 years: +0 %: 15 mins: Winter	0.04	12.8	5.927
Catchment Area (110)	FEH: 30 years: +0 %: 15 mins: Winter	0.04	14.2	6.562
Catchment Area (111)	FEH: 30 years: +0 %: 15 mins: Winter	0.04	15.1	6.954
Catchment Area	FEH: 30 years: +0 %: 15 mins: Winter	0.03	9.5	4.381
Catchment Area (1)	FEH: 30 years: +0 %: 15 mins: Winter	0.03	9.4	4.330
Catchment Area (2)	FEH: 30 years: +0 %: 15 mins: Winter	0.02	6.4	2.942
Catchment Area (3)	FEH: 30 years: +0 %: 15 mins: Winter	0.02	5.5	2.538
Catchment Area (4)	FEH: 30 years: +0 %: 15 mins: Winter	0.02	7.8	3.584
Catchment Area (5)	FEH: 30 years: +0 %: 15 mins: Winter	0.04	14.6	6.730
Catchment Area (6)	FEH: 30 years: +0 %: 15 mins: Winter	0.04	13.9	6.439
Catchment Area (7)	FEH: 30 years: +0 %: 15 mins: Winter	0.03	9.9	4.575

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Inflows Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis			



FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Inflow

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis	



Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area (32)	FEH: 100 years: +40 %: 15 mins: Winter	0.03	21.3	9.856
Catchment Area (33)	FEH: 100 years: +40 %: 15 mins: Winter	0.03	21.5	9.970
Catchment Area (104)	FEH: 100 years: +40 %: 15 mins: Winter	0.04	24.8	11.485
Catchment Area (105)	FEH: 100 years: +40 %: 15 mins: Winter	0.05	33.2	15.387
Catchment Area (107)	FEH: 100 years: +40 %: 15 mins: Winter	0.09	53.7	24.841
Catchment Area (108)	FEH: 100 years: +40 %: 15 mins: Winter	0.04	22.6	10.474
Catchment Area (110)	FEH: 100 years: +40 %: 15 mins: Winter	0.04	25.1	11.602
Catchment Area (111)	FEH: 100 years: +40 %: 15 mins: Winter	0.04	26.6	12.291
Catchment Area	FEH: 100 years: +40 %: 15 mins: Winter	0.03	16.7	7.735
Catchment Area (1)	FEH: 100 years: +40 %: 15 mins: Winter	0.03	16.5	7.648
Catchment Area (2)	FEH: 100 years: +40 %: 15 mins: Winter	0.02	11.2	5.198
Catchment Area (3)	FEH: 100 years: +40 %: 15 mins: Winter	0.02	9.7	4.487
Catchment Area (4)	FEH: 100 years: +40 %: 15 mins: Winter	0.02	13.7	6.338
Catchment Area (5)	FEH: 100 years: +40 %: 15 mins: Winter	0.04	25.7	11.893
Catchment Area (6)	FEH: 100 years: +40 %: 15 mins: Winter	0.04	24.6	11.380
Catchment Area (7)	FEH: 100 years: +40 %: 15 mins: Winter	0.03	17.5	8.089

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			



FEH: 5 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH-05	FEH: 5 years: +0 %: 15 mins: Winter	68.19 7	67.31 4	67.383	0.069	8.6	0.078	0.000	8.4	4.003	OK
MH-01	FEH: 5 years: +0 %: 15 mins: Winter	68.19 1	67.22 0	67.305	0.085	11.6	0.096	0.000	11.0	5.359	OK
MH-07	FEH: 5 years: +0 %: 15 mins: Winter	68.39 5	67.10 9	67.181	0.072	8.9	0.082	0.000	7.6	5.383	OK
MH-02	FEH: 5 years: +0 %: 240 mins: Winter	68.37 6	67.06 5	67.174	0.109	2.5	0.123	0.000	2.4	14.226	OK
MH-08	FEH: 5 years: +0 %: 120 mins: Winter	68.58 1	66.96 1	67.068	0.107	4.4	0.121	0.000	4.4	19.064	OK
MH-3	FEH: 5 years: +0 %: 240 mins: Winter	68.62 9	66.91 3	66.937	0.024	2.7	0.028	0.000	2.7	27.350	OK
MH-11	FEH: 5 years: +0 %: 120 mins: Winter	67.51 8	66.31 3	66.826	0.513	10.0	0.580	0.000	10.0	58.542	Surcharged
OF 1-19	FEH: 5 years: +0 %: 240 mins: Summer	66.30 0	65.93 2	65.970	0.038	2.7	0.000	0.000	2.7	49.394	OK
OF 1-13	FEH: 5 years: +0 %: 240 mins: Winter		66.89 0	66.898	0.008	0.0			0.0	0.009	OK
OF 1-16	FEH: 5 years: +0 %: 15 mins: Summer		66.95 0	66.950	0.000	0.0			0.0	0.000	OK
OF 1-14	FEH: 5 years: +0 %: 480 mins: Winter		66.73 4	66.773	0.039	0.8			0.8	7.331	OK
OF 1-17	FEH: 5 years: +0 %: 480 mins: Winter		66.69 6	66.794	0.098	0.9			0.9	8.127	OK
MH-15	FEH: 5 years: +0 %: 480 mins: Winter	68.27 1	66.37 3	66.770	0.397	2.0	0.449	0.000	2.0	45.712	OK
MH-06	FEH: 5 years: +0 %: 120 mins: Winter	68.33 5	67.17 1	67.357	0.186	2.9	0.210	0.000	2.5	8.502	Surcharged
MH-09	FEH: 5 years: +0 %: 120 mins: Winter	68.63 8	66.75 8	67.055	0.297	4.4	0.336	0.000	4.5	23.186	Surcharged
MH-10	FEH: 5 years: +0 %: 120 mins: Winter	68.62 3	66.70 1	67.002	0.301	5.1	0.340	0.000	5.0	27.105	Surcharged
MH-4	FEH: 5 years: +0 %: 120 mins: Winter	68.61 5	66.64 9	66.838	0.189	8.4	0.214	0.000	8.8	50.188	OK
MH-18	FEH: 5 years: +0 %: 480 mins: Winter	68.26 1	66.42 7	66.793	0.366	1.0	0.414	0.000	1.0	18.832	Surcharged
MH12	FEH: 5 years: +0 %: 960 mins: Winter	67.30 0	66.00 0	66.450	0.450	2.7	0.509	0.000	2.7	164.249	Surcharged

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			



FEH: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH-05	FEH: 10 years: +0 %: 120 mins: Winter	68.197	67.314	67.419	0.105	3.5	0.119	0.000	3.5	10.375	OK
MH-01	FEH: 10 years: +0 %: 15 mins: Winter	68.191	67.220	67.316	0.096	14.5	0.108	0.000	13.8	6.700	OK
MH-07	FEH: 10 years: +0 %: 15 mins: Winter	68.395	67.109	67.191	0.082	11.2	0.092	0.000	9.7	6.784	OK
MH-02	FEH: 10 years: +0 %: 240 mins: Winter	68.376	67.065	67.227	0.162	3.0	0.184	0.000	2.8	16.963	Surcharged
MH-08	FEH: 10 years: +0 %: 120 mins: Winter	68.581	66.961	67.177	0.216	5.4	0.244	0.000	4.9	23.812	Surcharged
MH-3	FEH: 10 years: +0 %: 120 mins: Winter	68.629	66.913	66.949	0.036	3.0	0.040	0.000	3.0	24.739	OK
MH-11	FEH: 10 years: +0 %: 120 mins: Winter	67.518	66.313	66.933	0.620	11.1	0.701	0.000	11.1	74.605	Surcharged
OF 1-19	FEH: 10 years: +0 %: 720 mins: Winter	66.300	65.932	65.970	0.038	2.7	0.000	0.000	2.7	128.537	OK
OF 1-13	FEH: 10 years: +0 %: 120 mins: Winter		66.890	66.903	0.013	0.1			0.0	0.015	OK
OF 1-16	FEH: 10 years: +0 %: 15 mins: Summer		66.950	66.950	0.000	0.0			0.0	0.000	OK
OF 1-14	FEH: 10 years: +0 %: 480 mins: Winter		66.734	66.835	0.102	0.9			0.9	9.586	OK
OF 1-17	FEH: 10 years: +0 %: 480 mins: Winter		66.696	66.857	0.161	1.0			1.0	10.509	Surcharged
MH-15	FEH: 10 years: +0 %: 480 mins: Winter	68.271	66.373	66.834	0.461	2.2	0.522	0.000	2.2	57.704	Surcharged
MH-06	FEH: 10 years: +0 %: 120 mins: Winter	68.335	67.171	67.419	0.248	3.5	0.280	0.000	3.0	10.349	Surcharged
MH-09	FEH: 10 years: +0 %: 120 mins: Winter	68.638	66.758	67.162	0.404	4.8	0.457	0.000	4.9	29.569	Surcharged
MH-10	FEH: 10 years: +0 %: 120 mins: Winter	68.623	66.701	67.108	0.407	5.4	0.460	0.000	5.4	34.700	Surcharged
MH-4	FEH: 10 years: +0 %: 120 mins: Winter	68.615	66.649	66.947	0.298	9.1	0.337	0.000	9.5	64.515	Surcharged
MH-18	FEH: 10 years: +0 %: 480 mins: Winter	68.261	66.427	66.856	0.429	1.0	0.486	0.000	1.0	24.272	Surcharged
MH12	FEH: 10 years: +0 %: 960 mins: Winter	67.300	66.000	66.539	0.539	2.7	0.610	0.000	2.7	180.946	Surcharged

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH-05	FEH: 30 years: +0 %: 120 mins: Winter	68.197	67.314	67.551	0.237	4.6	0.268	0.000	4.5	13.327	Surcharged
MH-01	FEH: 30 years: +0 %: 15 mins: Winter	68.191	67.220	67.332	0.112	18.8	0.126	0.000	18.1	8.723	OK
MH-07	FEH: 30 years: +0 %: 120 mins: Winter	68.395	67.109	67.343	0.234	6.7	0.265	0.000	6.7	31.474	Surcharged
MH-02	FEH: 30 years: +0 %: 120 mins: Winter	68.376	67.065	67.324	0.259	6.1	0.293	0.000	5.8	17.813	Surcharged
MH-08	FEH: 30 years: +0 %: 120 mins: Winter	68.581	66.961	67.342	0.381	6.7	0.431	0.000	5.5	31.266	Surcharged
MH-3	FEH: 30 years: +0 %: 60 mins: Winter	68.629	66.913	67.121	0.208	3.5	0.235	0.000	3.9	15.219	OK
MH-11	FEH: 30 years: +0 %: 60 mins: Winter	67.518	66.313	67.109	0.796	12.9	0.901	0.000	12.7	59.169	Surcharged
OF 1-19	FEH: 30 years: +0 %: 120 mins: Winter	66.300	65.932	65.970	0.038	2.7	0.000	0.000	2.7	19.133	OK
OF 1-13	FEH: 30 years: +0 %: 360 mins: Winter		66.890	66.945	0.055	0.0			0.0	0.064	OK
OF 1-16	FEH: 30 years: +0 %: 15 mins: Summer		66.950	66.950	0.000	0.0			0.0	0.000	OK
OF 1-14	FEH: 30 years: +0 %: 480 mins: Winter		66.734	66.914	0.181	1.0			1.0	13.236	Surcharged
OF 1-17	FEH: 30 years: +0 %: 480 mins: Winter		66.696	66.938	0.242	1.1			1.0	14.400	Surcharged
MH-15	FEH: 30 years: +0 %: 480 mins: Winter	68.271	66.373	66.913	0.540	2.4	0.611	0.000	2.4	75.651	Surcharged
MH-06	FEH: 30 years: +0 %: 120 mins: Winter	68.335	67.171	67.550	0.379	4.5	0.429	0.000	3.8	13.301	Surcharged
MH-09	FEH: 30 years: +0 %: 120 mins: Winter	68.638	66.758	67.326	0.569	5.4	0.643	0.000	5.5	39.528	Surcharged
MH-10	FEH: 30 years: +0 %: 60 mins: Winter	68.623	66.701	67.266	0.565	6.2	0.639	0.000	6.0	29.283	Surcharged
MH-4	FEH: 30 years: +0 %: 60 mins: Winter	68.615	66.649	67.121	0.472	10.3	0.534	0.000	10.8	49.656	Surcharged
MH-18	FEH: 30 years: +0 %: 480 mins: Winter	68.261	66.427	66.937	0.510	0.9	0.577	0.000	0.9	32.691	Surcharged
MH12	FEH: 30 years: +0 %: 960 mins: Winter	67.300	66.000	66.676	0.676	2.7	0.764	0.000	2.7	194.944	Surcharged

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			



FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH-05	FEH: 100 years: +40 %: 120 mins: Winter	68.197	67.314	68.103	0.789	8.0	0.892	0.000	7.5	23.030	Flood Risk
MH-01	FEH: 100 years: +40 %: 120 mins: Winter	68.191	67.220	67.754	0.534	10.7	0.604	0.000	10.2	30.814	Surcharged
MH-07	FEH: 100 years: +40 %: 120 mins: Winter	68.395	67.109	67.876	0.767	9.4	0.868	0.000	8.8	50.134	Surcharged
MH-02	FEH: 100 years: +40 %: 120 mins: Winter	68.376	67.065	67.754	0.689	10.2	0.779	0.000	9.7	29.699	Surcharged
MH-08	FEH: 100 years: +40 %: 120 mins: Winter	68.581	66.961	67.874	0.913	8.8	1.033	0.000	8.2	49.169	Surcharged
MH-3	FEH: 100 years: +40 %: 60 mins: Winter	68.629	66.913	67.526	0.613	5.2	0.694	0.000	4.8	21.221	Surcharged
MH-11	FEH: 100 years: +40 %: 60 mins: Winter	67.518	66.313	67.506	1.193	15.8	1.350	0.000	15.8	80.769	Flood Risk
OF 1-19	FEH: 100 years: +40 %: 960 mins: Winter	66.300	65.932	65.974	0.041	3.2	0.000	0.000	3.2	268.693	OK
OF 1-13	FEH: 100 years: +40 %: 960 mins: Winter		66.890	67.318	0.428	0.0			0.0	0.424	Surcharged
OF 1-16	FEH: 100 years: +40 %: 960 mins: Winter		66.950	67.320	0.370	0.0			0.0	0.404	Surcharged
OF 1-14	FEH: 100 years: +40 %: 960 mins: Winter		66.734	67.316	0.582	0.9			0.9	27.717	Surcharged
OF 1-17	FEH: 100 years: +40 %: 960 mins: Winter		66.696	67.319	0.623	0.9			0.9	27.814	Surcharged
MH-15	FEH: 100 years: +40 %: 960 mins: Winter	68.271	66.373	67.316	0.943	2.5	1.067	0.000	2.4	139.264	Surcharged
MH-06	FEH: 100 years: +40 %: 120 mins: Winter	68.335	67.171	68.103	0.932	7.5	1.054	0.000	7.0	22.201	Flood Risk
MH-09	FEH: 100 years: +40 %: 120 mins: Winter	68.638	66.758	67.854	1.096	6.2	1.240	0.000	6.4	58.816	Surcharged
MH-10	FEH: 100 years: +40 %: 120 mins: Winter	68.623	66.701	67.751	1.050	7.7	1.188	0.000	7.8	71.811	Surcharged
MH-4	FEH: 100 years: +40 %: 60 mins: Winter	68.615	66.649	67.526	0.877	13.7	0.992	0.000	14.1	65.539	Surcharged
MH-18	FEH: 100 years: +40 %: 960 mins: Winter	68.261	66.427	67.319	0.892	0.8	1.009	0.000	0.7	53.597	Surcharged
MH12	FEH: 100 years: +40 %: 960 mins: Winter	67.300	66.000	67.277	1.277	3.4	1.445	0.000	3.2	268.740	Flood Risk

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			



FEH: 5 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (29)	FEH: 5 years: +0 %: 30 mins: Winter	67.571	67.448	0.150	0.145	3.8	2.094	0.000	0.000	3.0	1.730	86.411	OK
Infiltration Trench (31)	FEH: 5 years: +0 %: 30 mins: Winter	67.476	67.324	0.149	0.146	3.8	2.130	0.000	0.000	3.0	1.733	86.451	OK
Infiltration Trench (38)	FEH: 5 years: +0 %: 240 mins: Winter	66.898	66.869	0.145	0.211	1.9	7.686	0.000	0.000	0.8	5.012	84.659	OK
Infiltration Trench (39)	FEH: 5 years: +0 %: 240 mins: Winter	66.897	66.828	0.144	0.234	2.0	7.840	0.000	0.000	1.0	5.664	84.333	OK
Infiltration Trench (40)	FEH: 5 years: +0 %: 480 mins: Winter	66.772	66.770	0.183	0.380	1.6	10.930	0.000	0.000	0.9	13.809	74.705	OK
Infiltration Trench (41)	FEH: 5 years: +0 %: 480 mins: Winter	66.794	66.793	0.244	0.443	1.7	13.343	0.000	0.000	1.0	14.978	69.138	OK
Infiltration Trench (42)	FEH: 5 years: +0 %: 60 mins: Winter	67.137	66.989	0.143	0.139	1.9	1.551	0.000	0.000	1.8	1.636	87.044	OK
Infiltration Trench (43)	FEH: 5 years: +0 %: 120 mins: Winter	66.896	66.894	0.170	0.192	1.1	1.911	0.000	0.000	0.7	1.978	83.748	OK
Infiltration Trench	FEH: 5 years: +0 %: 120 mins: Winter	67.357	67.355	0.323	0.355	4.1	7.633	0.000	0.000	1.8	10.415	69.434	OK
Infiltration Trench (1)	FEH: 5 years: +0 %: 240 mins: Winter	67.173	67.167	0.253	0.353	6.5	23.280	0.000	0.000	2.7	27.362	72.632	OK
Infiltration Trench (2)	FEH: 5 years: +0 %: 120 mins: Winter	67.066	67.058	0.278	0.408	7.0	9.420	0.000	0.000	4.4	23.199	69.071	OK
T1	FEH: 5 years: +0 %: 960 mins: Winter	66.451	66.451	0.451	0.451	7.5	112.440	0.000	0.000	2.7	164.339	55.006	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			



FEH: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (29)	FEH: 10 years: +0 %: 30 mins: Winter	67.576	67.451	0.155	0.148	4.7	2.176	0.000	0.000	4.6	2.598	85.879	OK
Infiltration Trench (31)	FEH: 10 years: +0 %: 30 mins: Winter	67.481	67.329	0.154	0.151	4.8	2.218	0.000	0.000	4.7	2.614	85.891	OK
Infiltration Trench (38)	FEH: 10 years: +0 %: 240 mins: Winter	66.902	66.896	0.148	0.238	2.2	8.626	0.000	0.000	1.0	7.062	82.781	OK
Infiltration Trench (39)	FEH: 10 years: +0 %: 360 mins: Winter	66.897	66.871	0.144	0.277	1.8	9.031	0.000	0.000	1.1	9.381	81.954	OK
Infiltration Trench (40)	FEH: 10 years: +0 %: 480 mins: Winter	66.836	66.834	0.247	0.444	2.2	13.417	0.000	0.000	1.0	18.031	68.949	OK
Infiltration Trench (41)	FEH: 10 years: +0 %: 480 mins: Winter	66.857	66.857	0.307	0.507	2.2	15.808	0.000	0.000	1.0	19.545	63.435	OK
Infiltration Trench (42)	FEH: 10 years: +0 %: 30 mins: Winter	67.142	66.994	0.148	0.144	3.2	1.613	0.000	0.000	3.1	1.597	86.528	OK
Infiltration Trench (43)	FEH: 10 years: +0 %: 60 mins: Winter	66.922	66.921	0.197	0.219	2.1	2.195	0.000	0.000	0.9	1.898	81.334	OK
Infiltration Trench	FEH: 10 years: +0 %: 120 mins: Winter	67.418	67.417	0.385	0.417	5.0	9.020	0.000	0.000	2.1	13.257	63.881	OK
Infiltration Trench (1)	FEH: 10 years: +0 %: 240 mins: Winter	67.227	67.218	0.306	0.404	7.6	27.333	0.000	0.000	3.0	34.469	67.866	OK
Infiltration Trench (2)	FEH: 10 years: +0 %: 120 mins: Winter	67.175	67.165	0.387	0.515	8.1	12.388	0.000	0.000	4.8	29.584	59.324	OK
T1	FEH: 10 years: +0 %: 960 mins: Winter	66.540	66.540	0.540	0.540	8.5	134.743	0.000	0.000	2.7	181.165	46.081	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (29)	FEH: 30 years: +0 %: 30 mins: Winter	67.581	67.455	0.160	0.152	6.2	2.250	0.000	0.000	6.2	3.988	85.399	OK
Infiltration Trench (31)	FEH: 30 years: +0 %: 30 mins: Winter	67.486	67.332	0.158	0.154	6.3	2.281	0.000	0.000	6.2	4.022	85.488	OK
Infiltration Trench (38)	FEH: 30 years: +0 %: 360 mins: Winter	66.945	66.945	0.192	0.287	2.1	10.761	0.000	0.000	1.1	12.071	78.519	OK
Infiltration Trench (39)	FEH: 30 years: +0 %: 480 mins: Winter	66.950	66.949	0.196	0.355	1.8	12.395	0.000	0.000	1.1	14.401	75.230	OK
Infiltration Trench (40)	FEH: 30 years: +0 %: 480 mins: Winter	66.915	66.913	0.325	0.524	2.4	16.486	0.000	0.000	1.0	24.675	61.847	OK
Infiltration Trench (41)	FEH: 30 years: +0 %: 480 mins: Winter	66.938	66.937	0.388	0.587	2.8	18.941	0.000	0.000	0.8	26.690	56.189	OK
Infiltration Trench (42)	FEH: 30 years: +0 %: 30 mins: Winter	67.146	66.998	0.152	0.148	4.2	1.660	0.000	0.000	4.2	2.544	86.136	OK
Infiltration Trench (43)	FEH: 30 years: +0 %: 60 mins: Winter	66.976	66.976	0.251	0.273	2.8	2.768	0.000	0.000	1.2	2.956	76.465	OK
Infiltration Trench	FEH: 30 years: +0 %: 120 mins: Winter	67.550	67.549	0.516	0.549	6.3	11.987	0.000	0.000	2.1	17.692	51.997	OK
Infiltration Trench (1)	FEH: 30 years: +0 %: 120 mins: Winter	67.323	67.312	0.403	0.498	15.6	34.657	0.000	0.000	3.6	31.173	59.256	OK
Infiltration Trench (2)	FEH: 30 years: +0 %: 120 mins: Winter	67.340	67.330	0.552	0.680	9.7	16.920	0.000	0.000	5.4	39.558	44.444	OK
T1	FEH: 30 years: +0 %: 960 mins: Winter	66.677	66.677	0.677	0.677	10.0	168.922	0.000	0.000	2.7	195.392	32.404	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			



FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By:
Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (29)	FEH: 100 years: +40 %: 120 mins: Winter	67.752	67.752	0.331	0.449	5.3	5.415	0.000	0.000	5.2	13.835	64.866	OK
Infiltration Trench (31)	FEH: 100 years: +40 %: 60 mins: Winter	67.531	67.530	0.204	0.352	8.6	3.938	0.000	0.000	8.2	11.539	74.953	OK
Infiltration Trench (38)	FEH: 100 years: +40 %: 960 mins: Winter	67.318	67.318	0.565	0.660	1.7	27.545	0.000	0.000	0.9	28.568	45.018	OK
Infiltration Trench (39)	FEH: 100 years: +40 %: 960 mins: Winter	67.320	67.320	0.567	0.726	1.8	29.066	0.000	0.000	0.9	28.851	41.916	OK
Infiltration Trench (40)	FEH: 100 years: +40 %: 960 mins: Winter	67.317	67.316	0.727	0.926	2.0	32.110	0.000	0.000	0.6	43.423	25.688	OK
Infiltration Trench (41)	FEH: 100 years: +40 %: 960 mins: Winter	67.319	67.319	0.769	0.969	1.9	33.762	0.000	0.000	0.6	41.784	21.907	OK
Infiltration Trench (42)	FEH: 100 years: +40 %: 960 mins: Winter	67.316	67.316	0.322	0.466	0.8	4.241	0.000	0.000	0.8	16.453	64.577	OK
Infiltration Trench (43)	FEH: 100 years: +40 %: 960 mins: Winter	67.319	67.319	0.594	0.616	0.7	6.394	0.000	0.000	0.5	12.661	45.634	OK
Infiltration Trench	FEH: 100 years: +40 %: 120 mins: Winter	68.102	68.101	1.069	1.101	11.4	24.422	0.000	0.000	2.5	26.065	2.201	Flood Risk
Infiltration Trench (1)	FEH: 100 years: +40 %: 120 mins: Winter	67.753	67.738	0.832	0.924	27.0	67.509	0.000	0.000	4.6	43.052	20.635	OK
Infiltration Trench (2)	FEH: 100 years: +40 %: 120 mins: Winter	67.872	67.859	1.084	1.209	15.5	31.483	0.000	0.000	6.2	58.920	-3.374	Flood Risk
T1	FEH: 100 years: +40 %: 960 mins: Winter	67.280	67.280	1.280	1.280	12.5	249.810	0.000	0.000	3.4	269.769	0.036	OK

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis	





FEH: 5 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
OF 1-5.000	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	OF 1-13	Infiltration Trench (38)	68.056	66.897	0.013	0.000	0.0	0	0.0	OK
OF 1-7.000	FEH: 5 years: +0 %: 15 mins: Summer	Pipe	OF 1-16	Infiltration Trench (39)	68.051	66.950	0.000	0.000	0.0	0	0.0	OK
OF 1-5.001	FEH: 5 years: +0 %: 360 mins: Winter	Pipe	Infiltration Trench (38)	OF 1-14	68.053	66.829	0.026	6.354	0.5	0.03	0.8	OK
OF 1-7.001	FEH: 5 years: +0 %: 240 mins: Winter	Pipe	Infiltration Trench (39)	OF 1-17	68.053	66.769	0.067	5.663	0.4	0.06	1.0	OK
OF 1-5.002	FEH: 5 years: +0 %: 360 mins: Winter	Pipe	OF 1-14	Infiltration Trench (40)	68.269	66.768	0.044	6.352	0.4	0.06	0.8	OK
OF 1-7.002	FEH: 5 years: +0 %: 240 mins: Winter	Pipe	OF 1-17	Infiltration Trench (41)	68.261	66.774	0.089	5.661	0.4	0.06	1.0	OK
OF 1-5.003	FEH: 5 years: +0 %: 360 mins: Summer	Pipe	Infiltration Trench (40)	MH-15	67.889	66.624	0.150	9.272	0.7	0.29	10.2	OK
OF 1-6.000	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (42)	MH-15	68.294	66.994	0.115	1.636	0.2	0.02	1.8	OK
OF 1-2.000	FEH: 5 years: +0 %: 15 mins: Winter	Pipe	MH-05	MH-06	68.197	67.383	0.081	4.003	0.7	0.2	8.4	OK
OF 1-1.000	FEH: 5 years: +0 %: 15 mins: Winter	Pipe	MH-01	MH-02	68.191	67.305	0.096	5.359	0.7	0.3	11.0	OK
OF 1-2.003	FEH: 5 years: +0 %: 15 mins: Winter	Pipe	MH-07	MH-08	68.395	67.181	0.071	5.067	0.7	0.21	7.6	OK
OF 1-1.001	FEH: 5 years: +0 %: 15 mins: Winter	Pipe	MH-02	Infiltration Trench (1)	68.376	67.172	0.103	5.291	0.8	0.75	10.0	OK
OF 1-1.002	FEH: 5 years: +0 %: 240 mins: Winter	Pipe	Infiltration Trench (1)	MH-3	68.221	67.117	0.034	27.356	0.9	0.19	2.7	Surcharged
OF 1-2.005	FEH: 5 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (2)	MH-09	68.088	66.931	0.150	8.817	0.4	0.35	5.1	Surcharged
OF 1-2.004	FEH: 5 years: +0 %: 15 mins: Winter	Pipe	MH-08	Infiltration Trench (2)	68.581	67.031	0.072	4.979	0.8	0.31	6.8	OK
OF 1-2.001	FEH: 5 years: +0 %: 15 mins: Summer	Pipe	MH-06	Infiltration Trench	68.335	67.257	0.081	3.429	0.7	0.51	7.3	OK
OF 1-2.002	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench	MH-07	68.334	67.339	0.047	10.278	0.5	0.13	1.8	Surcharged
OF 1-2.006	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-09	MH-10	68.638	67.055	0.225	23.183	0.4	0.12	4.5	Surcharged
OF 1-2.007	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-10	MH-4	68.623	67.002	0.164	27.109	0.6	0.07	5.1	Surcharged

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			

OF 1-1.004	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-4	MH-11	68.615	66.838	0.225	50.188	0.3	0.18	8.8	OK
OF 1-1.003	FEH: 5 years: +0 %: 240 mins: Winter	Pipe	MH-3	MH-4	68.629	66.937	0.085	27.350	0.6	0.01	2.7	OK
OF 1-3.000	FEH: 5 years: +0 %: 30 mins: Winter	Pipe	Infiltratio n Trench (29)	MH-10	68.721	67.454	0.129	1.730	0.5	0.04	3.0	OK
OF 1-4.000	FEH: 5 years: +0 %: 30 mins: Winter	Pipe	Infiltratio n Trench (31)	MH-4	68.628	67.329	0.050	1.733	1.5	0.04	3.0	OK
OF 1-7.003	FEH: 5 years: +0 %: 360 mins: Winter	Pipe	Infiltratio n Trench (41)	MH-18	67.850	66.689	0.150	12.433	0.2	0.05	1.0	Surch arged
OF 1-8.000	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	Infiltratio n Trench (43)	MH-18	68.025	66.884	0.147	1.977	0.1	0.01	0.7	OK
OF 1-7.004	FEH: 5 years: +0 %: 360 mins: Winter	Pipe	MH-18	MH-15	68.261	66.788	0.300	15.772	0.1	0.01	1.1	Surch arged
OF 1-5.004	FEH: 5 years: +0 %: 480 mins: Winter	Pipe	MH-15	T1	68.271	66.770	0.222	45.196	0.4	0.01	2.0	OK
OF 1-1.005	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-11	T1	67.518	66.826	0.127	58.527	1.2	0.23	10.0	Surch arged
Outfall	FEH: 5 years: +0 %: 360 mins: Winter	Pipe	T1	MH12	67.300	66.378	0.150	57.544	0.3	0.17	2.7	Surch arged
Outfall (1)	FEH: 5 years: +0 %: 240 mins: Summer	Pipe	MH12	OF 1-19	67.300	66.260	0.039	49.394	0.7	0.14	2.7	Surch arged

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis			



FEH: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
OF 1-5.000	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	OF 1-13	Infiltration Trench (38)	68.056	66.901	0.017	0.000	0.0	0	0.0	OK
OF 1-7.000	FEH: 10 years: +0 %: 15 mins: Summer	Pipe	OF 1-16	Infiltration Trench (39)	68.051	66.950	0.000	0.000	0.0	0	0.0	OK
OF 1-5.001	FEH: 10 years: +0 %: 240 mins: Winter	Pipe	Infiltration Trench (38)	OF 1-14	68.053	66.850	0.064	7.047	0.5	0.04	1.0	OK
OF 1-7.001	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (39)	OF 1-17	68.053	66.785	0.089	5.266	0.5	0.07	1.1	OK
OF 1-5.002	FEH: 10 years: +0 %: 240 mins: Winter	Pipe	OF 1-14	Infiltration Trench (40)	68.269	66.823	0.099	7.044	0.4	0.07	1.0	OK
OF 1-7.002	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	OF 1-17	Infiltration Trench (41)	68.261	66.797	0.112	5.261	0.4	0.07	1.1	OK
OF 1-5.003	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	Infiltration Trench (40)	MH-15	67.889	66.523	0.150	0.000	0.1	0.04	1.4	OK
OF 1-6.000	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (42)	MH-15	68.294	67.000	0.133	1.597	0.2	0.04	3.1	OK
OF 1-2.000	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-05	MH-06	68.197	67.391	0.096	5.003	0.6	0.25	10.4	OK
OF 1-1.000	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-01	MH-02	68.191	67.316	0.111	6.700	0.7	0.38	13.8	OK
OF 1-2.003	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-07	MH-08	68.395	67.191	0.082	6.441	0.7	0.26	9.7	OK
OF 1-1.001	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-02	Infiltration Trench (1)	68.376	67.190	0.130	6.600	0.9	0.94	12.6	OK
OF 1-1.002	FEH: 10 years: +0 %: 240 mins: Winter	Pipe	Infiltration Trench (1)	MH-3	68.221	67.170	0.036	34.462	0.9	0.21	3.0	Surcharged
OF 1-2.005	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (2)	MH-09	68.088	67.078	0.150	20.343	0.4	0.34	4.9	Surcharged

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			

OF 1-2.004	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-08	Infiltration Trench (2)	68.581	67.044	0.087	6.347	0.8	0.4	8.7	OK
OF 1-2.001	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-06	Infiltration Trench	68.335	67.317	0.150	4.622	0.6	0.64	9.1	OK
OF 1-2.002	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench	MH-07	68.334	67.401	0.064	13.112	0.6	0.14	2.1	Surcharged
OF 1-2.006	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	MH-09	MH-10	68.638	67.139	0.225	20.253	0.4	0.14	5.2	Surcharged
OF 1-2.007	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	MH-10	MH-4	68.623	67.093	0.271	23.874	0.5	0.08	5.6	Surcharged
OF 1-1.004	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	MH-4	MH-11	68.615	66.945	0.225	39.815	0.3	0.2	9.5	Surcharged
OF 1-1.003	FEH: 10 years: +0 %: 240 mins: Winter	Pipe	MH-3	MH-4	68.629	66.938	0.124	34.455	0.6	0.02	3.0	OK
OF 1-3.000	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (29)	MH-10	68.721	67.460	0.150	2.598	0.3	0.06	4.6	OK
OF 1-4.000	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (31)	MH-4	68.628	67.335	0.115	2.614	0.9	0.07	4.7	OK
OF 1-7.003	FEH: 10 years: +0 %: 360 mins: Summer	Pipe	Infiltration Trench (41)	MH-18	67.850	66.713	0.150	13.503	0.4	0.11	2.3	Surcharged
OF 1-8.000	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (43)	MH-18	68.025	66.911	0.150	1.896	0.1	0.01	0.9	OK
OF 1-7.004	FEH: 10 years: +0 %: 240 mins: Winter	Pipe	MH-18	MH-15	68.261	66.845	0.300	16.864	0.1	0.01	1.2	Surcharged
OF 1-5.004	FEH: 10 years: +0 %: 480 mins: Winter	Pipe	MH-15	T1	68.271	66.834	0.304	57.127	0.4	0.01	2.2	Surcharged
OF 1-1.005	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-11	T1	67.518	66.933	0.168	74.518	1.2	0.26	11.1	Surcharged
Outfall	FEH: 10 years: +0 %: 360 mins: Winter	Pipe	T1	MH12	67.300	66.459	0.150	62.789	0.3	0.17	2.8	Surcharged
Outfall (1)	FEH: 10 years: +0 %: 720 mins: Winter	Pipe	MH12	OF 1-19	67.300	66.525	0.039	128.537	0.7	0.14	2.7	Surcharged

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis			



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
OF 1-5.000	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	OF 1-13	Infiltration Trench (38)	68.056	66.908	0.024	0.000	0.0	0	0.0	OK
OF 1-7.000	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	OF 1-16	Infiltration Trench (39)	68.051	66.950	0.005	0.000	0.0	0	0.0	OK
OF 1-5.001	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (38)	OF 1-14	68.053	66.886	0.107	7.487	0.5	0.05	1.1	OK
OF 1-7.001	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (39)	OF 1-17	68.053	66.840	0.150	6.468	0.5	0.08	1.2	OK
OF 1-5.002	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	OF 1-14	Infiltration Trench (40)	68.269	66.803	0.079	4.545	0.3	0.08	1.1	OK
OF 1-7.002	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	OF 1-17	Infiltration Trench (41)	68.261	66.825	0.140	3.895	0.3	0.08	1.2	OK
OF 1-5.003	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (40)	MH-15	67.889	66.631	0.150	0.000	0.1	0.06	2.2	OK
OF 1-6.000	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (42)	MH-15	68.294	67.004	0.150	2.544	0.2	0.06	4.2	OK
OF 1-2.000	FEH: 30 years: +0 %: 15 mins: Winter	Pipe	MH-05	MH-06	68.197	67.403	0.148	6.418	0.7	0.33	13.6	OK
OF 1-1.000	FEH: 30 years: +0 %: 15 mins: Winter	Pipe	MH-01	MH-02	68.191	67.332	0.136	8.723	0.7	0.49	18.1	OK
OF 1-2.003	FEH: 30 years: +0 %: 15 mins: Winter	Pipe	MH-07	MH-08	68.395	67.204	0.101	8.437	0.8	0.35	12.8	OK
OF 1-1.001	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	MH-02	Infiltration Trench (1)	68.376	67.224	0.150	7.599	0.9	1.13	15.2	Surcharged
OF 1-1.002	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (1)	MH-3	68.221	67.266	0.150	31.120	1.0	0.25	3.6	Surcharged
OF 1-2.005	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (2)	MH-09	68.088	67.256	0.150	24.574	0.3	0.38	5.5	Surcharged

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis			

OF 1-2.004	FEH: 30 years: +0 %: 15 mins: Winter	Pipe	MH-08	Infiltration Trench (2)	68.581	67.124	0.150	7.946	0.9	0.53	11.6	Surcharged
OF 1-2.001	FEH: 30 years: +0 %: 15 mins: Winter	Pipe	MH-06	Infiltration Trench	68.335	67.391	0.150	5.782	0.7	0.85	12.0	Surcharged
OF 1-2.002	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench	MH-07	68.334	67.532	0.150	17.529	0.6	0.15	2.2	Surcharged
OF 1-2.006	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-09	MH-10	68.638	67.316	0.225	24.088	0.1	0.16	5.8	Surcharged
OF 1-2.007	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-10	MH-4	68.623	67.266	0.300	29.158	0.5	0.09	6.2	Surcharged
OF 1-1.004	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-4	MH-11	68.615	67.121	0.225	49.565	0.3	0.23	10.8	Surcharged
OF 1-1.003	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	MH-3	MH-4	68.629	67.079	0.297	6.187	0.3	0.02	3.9	OK
OF 1-3.000	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (29)	MH-10	68.721	67.465	0.150	3.988	1.8	0.08	6.2	OK
OF 1-4.000	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (31)	MH-4	68.628	67.339	0.150	4.022	2.1	0.09	6.2	OK
OF 1-7.003	FEH: 30 years: +0 %: 120 mins: Summer	Pipe	Infiltration Trench (41)	MH-18	67.850	66.747	0.150	3.319	0.1	0.05	1.1	Surcharged
OF 1-8.000	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (43)	MH-18	68.025	66.965	0.150	2.953	0.1	0.02	1.2	OK
OF 1-7.004	FEH: 30 years: +0 %: 120 mins: Summer	Pipe	MH-18	MH-15	68.261	66.847	0.300	5.785	0.0	0.01	1.2	Surcharged
OF 1-5.004	FEH: 30 years: +0 %: 480 mins: Winter	Pipe	MH-15	T1	68.271	66.913	0.427	73.903	0.5	0.01	2.4	Surcharged
OF 1-1.005	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-11	T1	67.518	67.109	0.154	58.901	1.3	0.3	12.7	Surcharged
Outfall	FEH: 30 years: +0 %: 240 mins: Winter	Pipe	T1	MH12	67.300	66.524	0.150	43.893	0.3	0.17	2.8	Surcharged
Outfall (1)	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	MH12	OF 1-19	67.300	66.411	0.039	19.133	0.7	0.14	2.7	Surcharged

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis			



FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
OF 1-5.000	FEH: 100 years: +40 %: 15 mins: Summer	Pipe	OF 1-13	Infiltration Trench (38)	68.056	66.928	0.044	0.000	0.0	0.01	0.1	OK
OF 1-7.000	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	OF 1-16	Infiltration Trench (39)	68.051	67.006	0.092	0.000	0.0	0	0.0	OK
OF 1-5.001	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	Infiltration Trench (38)	OF 1-14	68.053	66.901	0.075	1.227	0.2	0.05	1.2	OK
OF 1-7.001	FEH: 100 years: +40 %: 60 mins: Summer	Pipe	Infiltration Trench (39)	OF 1-17	68.053	66.958	0.150	4.113	0.5	0.09	1.4	Surcharged
OF 1-5.002	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	OF 1-14	Infiltration Trench (40)	68.269	66.833	0.110	1.139	0.1	0.09	1.2	OK
OF 1-7.002	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	OF 1-17	Infiltration Trench (41)	68.261	66.794	0.108	1.239	0.3	0.08	1.3	OK
OF 1-5.003	FEH: 100 years: +40 %: 30 mins: Summer	Pipe	Infiltration Trench (40)	MH-15	67.889	66.788	0.150	0.019	0.4	0.13	4.8	Surcharged
OF 1-6.000	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	Infiltration Trench (42)	MH-15	68.294	67.022	0.150	3.813	0.6	0.13	10.3	OK
OF 1-2.000	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-05	MH-06	68.197	67.681	0.225	10.707	0.6	0.5	20.4	Surcharged
OF 1-1.000	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-01	MH-02	68.191	67.544	0.225	14.802	0.7	0.79	29.1	Surcharged
OF 1-2.003	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-07	MH-08	68.395	67.493	0.225	12.501	0.7	0.69	25.4	Surcharged
OF 1-1.001	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-02	Infiltration Trench (1)	68.376	67.498	0.150	13.673	1.5	1.92	25.8	Surcharged
OF 1-1.002	FEH: 100 years: +40 %: 120 mins: Winter	Pipe	Infiltration Trench (1)	MH-3	68.221	67.694	0.150	42.981	1.0	0.32	4.7	Surcharged
OF 1-2.005	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	Infiltration Trench (2)	MH-09	68.088	67.782	0.150	27.635	0.4	0.44	6.4	Flood Risk

Project: West of Ifield Phase 1A		Date: 27/11/2023		
		Designed by: D.Samuel	Checked by:	
Report Details: Type: Connections Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis		

OF 1-2.004	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-08	Infiltration Trench (2)	68.581	67.493	0.150	11.186	1.1	0.93	20.2	Surcharged
OF 1-2.001	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-06	Infiltration Trench	68.335	67.683	0.150	9.573	1.0	1.3	18.4	Surcharged
OF 1-2.002	FEH: 100 years: +40 %: 120 mins: Winter	Pipe	Infiltration Trench	MH-07	68.334	68.085	0.150	25.844	0.5	0.18	2.6	Flood Risk
OF 1-2.006	FEH: 100 years: +40 %: 60 mins: Summer	Pipe	MH-09	MH-10	68.638	67.727	0.225	25.642	0.2	0.18	6.7	Surcharged
OF 1-2.007	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-10	MH-4	68.623	67.746	0.300	36.183	0.1	0.12	8.1	Surcharged
OF 1-1.004	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-4	MH-11	68.615	67.526	0.225	62.998	0.4	0.29	14.1	Surcharged
OF 1-1.003	FEH: 100 years: +40 %: 120 mins: Winter	Pipe	MH-3	MH-4	68.629	67.481	0.300	42.921	0.1	0.03	4.9	Surcharged
OF 1-3.000	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	Infiltration Trench (29)	MH-10	68.721	67.488	0.150	5.844	0.8	0.19	15.0	OK
OF 1-4.000	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	Infiltration Trench (31)	MH-4	68.628	67.390	0.150	5.896	0.9	0.22	15.2	OK
OF 1-7.003	FEH: 100 years: +40 %: 120 mins: Winter	Pipe	Infiltration Trench (41)	MH-18	67.850	67.030	0.150	0.000	0.1	0.05	1.0	Surcharged
OF 1-8.000	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	Infiltration Trench (43)	MH-18	68.025	67.120	0.150	3.403	0.1	0.02	1.8	Surcharged
OF 1-7.004	FEH: 100 years: +40 %: 120 mins: Winter	Pipe	MH-18	MH-15	68.261	67.130	0.300	3.593	0.0	0.01	1.2	Surcharged
OF 1-5.004	FEH: 100 years: +40 %: 240 mins: Winter	Pipe	MH-15	T1	68.271	67.171	0.450	51.095	0.7	0.01	2.9	Surcharged
OF 1-1.005	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-11	T1	67.518	67.506	0.211	80.395	1.4	0.37	15.8	Flood Risk
Outfall	FEH: 100 years: +40 %: 720 mins: Winter	Pipe	T1	MH12	67.300	67.250	0.150	198.273	0.3	0.21	3.4	Surcharged
Outfall (1)	FEH: 100 years: +40 %: 960 mins: Winter	Pipe	MH12	OF 1-19	67.300	67.277	0.043	268.693	0.8	0.17	3.2	Flood Risk

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Junctions Storm Phase: Outfall-1 without Pond	Company Address: Arcadis			

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
MH-05	Outlet	OF 1-2.000	Free Discharge
MH-01	Outlet	OF 1-1.000	Free Discharge
MH-07	Outlet	OF 1-2.003	Free Discharge
MH-02	Outlet	OF 1-1.001	Free Discharge
MH-08	Outlet	OF 1-2.004	Free Discharge
MH-3	Outlet	OF 1-1.003	Free Discharge
MH-11	Outlet	OF 1-1.005	Orifice
	Diameter (m)	0.085	
	Coefficient of Discharge	0.600	
	Invert Level (m)	66.313	
OF 1-13	Outlet	OF 1-5.000	Free Discharge
OF 1-16	Outlet	OF 1-7.000	Free Discharge
OF 1-14	Outlet	OF 1-5.002	Free Discharge
OF 1-17	Outlet	OF 1-7.002	Free Discharge
MH-15	Outlet	OF 1-5.004	Orifice
	Diameter (m)	0.040	
	Coefficient of Discharge	0.600	
	Invert Level (m)	66.373	
MH-06	Outlet	OF 1-2.001	Free Discharge
MH-09	Outlet	OF 1-2.006	Orifice
	Diameter (m)	0.090	
	Coefficient of Discharge	0.600	
	Invert Level (m)	66.758	
MH-10	Outlet	OF 1-2.007	Orifice
	Diameter (m)	0.075	
	Coefficient of Discharge	0.600	
	Invert Level (m)	66.701	
MH-4	Outlet	OF 1-1.004	Free Discharge
MH-18	Outlet	OF 1-7.004	Orifice
	Diameter (m)	0.050	
	Coefficient of Discharge	0.600	
	Invert Level (m)	66.427	

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (29)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	68.603
Depth (m)	1.300
Base Level (m)	67.303
Freeboard (mm)	200
Porosity (%)	30
Length (m)	11.778
Long. Slope (1:X)	100.00
Width (m)	3.928
Total Volume (m³)	15.412

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (31)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	68.478
Depth (m)	1.300
Base Level (m)	67.178
Freeboard (mm)	200
Porosity (%)	30
Length (m)	11.970
Long. Slope (1:X)	80.00
Width (m)	3.942
Total Volume (m³)	15.721

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (38)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.958
Depth (m)	1.300
Base Level (m)	66.658
Freeboard (mm)	200
Porosity (%)	30
Length (m)	47.730
Long. Slope (1:X)	500.00
Width (m)	3.143
Total Volume (m³)	50.098

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (39)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.894
Depth (m)	1.300
Base Level (m)	66.594
Freeboard (mm)	200
Porosity (%)	30
Length (m)	47.703
Long. Slope (1:X)	300.00
Width (m)	3.141
Total Volume (m³)	50.042

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (40)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.690
Depth (m)	1.300
Base Level (m)	66.390
Freeboard (mm)	200
Porosity (%)	30
Length (m)	39.846
Long. Slope (1:X)	200.00
Width (m)	3.249
Total Volume (m³)	43.210

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (41)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.650
Depth (m)	1.300
Base Level (m)	66.350
Freeboard (mm)	200
Porosity (%)	30
Length (m)	40.010
Long. Slope (1:X)	200.00
Width (m)	3.237
Total Volume (m³)	43.233

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (42)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	68.150
Depth (m)	1.300
Base Level (m)	66.850
Freeboard (mm)	200
Porosity (%)	30
Length (m)	11.483
Long. Slope (1:X)	80.00
Width (m)	3.122
Total Volume (m³)	11.973

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (43)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	68.003
Depth (m)	1.300
Base Level (m)	66.703
Freeboard (mm)	200
Porosity (%)	30
Length (m)	11.278
Long. Slope (1:X)	500.00
Width (m)	3.123
Total Volume (m³)	11.760

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	68.300
Depth (m)	1.300
Base Level (m)	67.000
Freeboard (mm)	200
Porosity (%)	30
Length (m)	16.959
Long. Slope (1:X)	500.00
Width (m)	4.425
Total Volume (m³)	24.972

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (1)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	68.114
Depth (m)	1.300
Base Level (m)	66.814
Freeboard (mm)	200
Porosity (%)	30
Length (m)	53.265
Long. Slope (1:X)	500.00
Width (m)	4.802
Total Volume (m³)	85.061

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





Infiltration Trench (2)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.950
Depth (m)	1.300
Base Level (m)	66.650
Freeboard (mm)	200
Porosity (%)	30
Length (m)	20.738
Long. Slope (1:X)	150.00
Width (m)	4.413
Total Volume (m³)	30.455

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details:	Company Address:			
Type: Stormwater Controls Storm Phase: Outfall-1 without Pond	Arcadis			



T1

Type : Cellular Storage

Dimensions	
Exceedance Level (m)	67.300
Depth (m)	1.000
Base Level (m)	66.000
Number of Crates Long	52
Number of Crates Wide	10
Number of Crates High	2
Porosity (%)	96
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.5
Total Volume (m³)	249.900

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
OF 1-5.000	2.453	Pipe	204.425		0.6	150	68.056	66.890
OF 1-7.000	2.288	Pipe	31.779		0.6	150	68.051	66.950
OF 1-5.001	2.565	Pipe	52.028		0.6	150	68.053	66.783
OF 1-7.001	2.895	Pipe	125.855		0.6	150	68.053	66.719
OF 1-5.002	3.209	Pipe	150.000		0.6	150	68.269	66.734
OF 1-7.002	2.709	Pipe	129.011		0.6	150	68.261	66.696
OF 1-5.003	3.589	Pipe	25.276		0.6	150	67.889	66.515
OF 1-6.000	3.287	Pipe	5.460		0.6	150	68.294	66.975
OF 1-2.000	22.866	Pipe	160.000		0.6	225	68.197	67.314
OF 1-1.000	30.984	Pipe	200.000		0.6	225	68.191	67.220
OF 1-2.003	29.582	Pipe	200.000		0.6	225	68.395	67.109
OF 1-1.001	3.463	Pipe	173.149		0.6	150	68.376	67.065
OF 1-1.002	3.848	Pipe	150.000		0.6	150	68.221	66.939
OF 1-2.005	2.607	Pipe	150.000		0.6	150	68.088	66.775
OF 1-2.004	3.186	Pipe	66.374		0.6	150	68.581	66.961
OF 1-2.001	2.028	Pipe	156.018		0.6	150	68.335	67.171
OF 1-2.002	2.412	Pipe	150.000		0.6	150	68.334	67.125
OF 1-2.006	8.635	Pipe	200.000		0.6	225	68.638	66.758
OF 1-2.007	12.912	Pipe	248.313		0.6	300	68.623	66.701
OF 1-1.004	39.507	Pipe	117.580		0.6	225	68.615	66.649
OF 1-1.003	8.904	Pipe	33.729		0.6	300	68.629	66.913
OF 1-3.000	3.895	Pipe	5.357		0.6	150	68.721	67.428
OF 1-4.000	4.241	Pipe	6.484		0.6	150	68.628	67.303
OF 1-7.003	3.518	Pipe	73.285		0.6	150	67.850	66.475
OF 1-8.000	2.377	Pipe	5.927		0.6	150	68.025	66.828
OF 1-7.004	8.109	Pipe	150.176		0.6	300	68.261	66.427
OF 1-5.004	35.148	Pipe	94.230		0.6	450	68.271	66.373
OF 1-1.005	46.126	Pipe	147.367		0.6	225	67.518	66.313
Outfall	11.617	Pipe	171.344		0.6	150	67.300	66.000

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Part Family	Lock	Min. Cover Depth (m)	Flow Restriction (L/s)	Velocity (m/s)
OF 1-5.000	68.053	66.878		All	0.000		
OF 1-7.000	68.053	66.878		All	0.000		
OF 1-5.001	68.269	66.734		All	0.000	3.26	
OF 1-7.001	68.261	66.696		All	0.000	3.26	
OF 1-5.002	67.889	66.713		All	0.000		
OF 1-7.002	67.850	66.675		All	0.000		
OF 1-5.003	68.271	66.373		All	0.000		
OF 1-6.000	68.271	66.373		All	0.000		
OF 1-2.000	68.335	67.171		All	0.000		
OF 1-1.000	68.376	67.065		All	0.000		
OF 1-2.003	68.581	66.961		All	0.000		
OF 1-1.001	68.221	67.045		All	0.000		
OF 1-1.002	68.629	66.913		All	0.000	6.15	
OF 1-2.005	68.638	66.758		All	0.000		
OF 1-2.004	68.088	66.913		All	0.000		
OF 1-2.001	68.334	67.158		All	0.000		
OF 1-2.002	68.395	67.109		All	0.000	4.13	
OF 1-2.006	68.623	66.714		All	0.000	22.91	
OF 1-2.007	68.615	66.649		All	0.000	16.12	
OF 1-1.004	67.518	66.313		All	0.000		
OF 1-1.003	68.615	66.649		All	0.000		
OF 1-3.000	68.623	66.701		All	0.000		
OF 1-4.000	68.615	66.649		All	0.000		
OF 1-7.003	68.261	66.427		All	0.000		
OF 1-8.000	68.261	66.427		All	0.000	3.26	
OF 1-7.004	68.271	66.373		All	0.000	7.02	
OF 1-5.004	67.240	66.000		All	0.000	4.58	
OF 1-1.005	67.240	66.000		All	0.000	16.26	
Outfall	66.300	65.932		All	0.000	3.59	

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	Company Address: Arcadis			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☒
Rainfall Depth (mm)	1.0
Run Time (mins)	1440

Rainfall

FEH	Type: FEH
Site Location	GB 525050 138350 TQ 25050 38350
Rainfall Version	2022
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
5.0	0.000
10.0	0.000
30.0	0.000
100.0	40.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
720	1440
960	1920

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		



FEH: 5 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area (32)	FEH: 5 years: +0 %: 15 mins: Winter	0.03	7.4	3.425
Catchment Area (33)	FEH: 5 years: +0 %: 15 mins: Winter	0.03	7.5	3.464
Catchment Area (104)	FEH: 5 years: +0 %: 15 mins: Winter	0.04	8.6	3.991
Catchment Area (105)	FEH: 5 years: +0 %: 15 mins: Winter	0.05	11.6	5.345
Catchment Area (107)	FEH: 5 years: +0 %: 15 mins: Winter	0.09	18.7	8.632
Catchment Area (108)	FEH: 5 years: +0 %: 15 mins: Winter	0.04	7.9	3.643
Catchment Area (110)	FEH: 5 years: +0 %: 15 mins: Winter	0.04	8.7	4.030
Catchment Area (111)	FEH: 5 years: +0 %: 15 mins: Winter	0.04	9.2	4.276
Catchment Area	FEH: 5 years: +0 %: 15 mins: Winter	0.03	5.8	2.688
Catchment Area (1)	FEH: 5 years: +0 %: 15 mins: Winter	0.03	5.8	2.658
Catchment Area (2)	FEH: 5 years: +0 %: 15 mins: Winter	0.02	3.9	1.810
Catchment Area (3)	FEH: 5 years: +0 %: 15 mins: Winter	0.02	3.4	1.558
Catchment Area (4)	FEH: 5 years: +0 %: 15 mins: Winter	0.02	4.8	2.205
Catchment Area (5)	FEH: 5 years: +0 %: 15 mins: Winter	0.04	8.9	4.132
Catchment Area (6)	FEH: 5 years: +0 %: 15 mins: Winter	0.04	8.6	3.955
Catchment Area (7)	FEH: 5 years: +0 %: 15 mins: Winter	0.03	6.1	2.810

Project: West of Ifield Phase 1A	Date: 27/11/2023			
Report Details: Type: Inflows Summary Storm Phase: Outfall-1 without Pond	Designed by: D.Samuel	Checked by:	Approved By:	
	Company Address: Arcadis			



FEH: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Inflows Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area (32)	FEH: 10 years: +0 %: 15 mins: Winter	0.03	9.3	4.282
Catchment Area (33)	FEH: 10 years: +0 %: 15 mins: Winter	0.03	9.4	4.330
Catchment Area (104)	FEH: 10 years: +0 %: 15 mins: Winter	0.04	10.8	4.986
Catchment Area (105)	FEH: 10 years: +0 %: 15 mins: Winter	0.05	14.5	6.682
Catchment Area (107)	FEH: 10 years: +0 %: 15 mins: Winter	0.09	23.4	10.789
Catchment Area (108)	FEH: 10 years: +0 %: 15 mins: Winter	0.04	9.8	4.551
Catchment Area (110)	FEH: 10 years: +0 %: 15 mins: Winter	0.04	10.9	5.037
Catchment Area (111)	FEH: 10 years: +0 %: 15 mins: Winter	0.04	11.6	5.339
Catchment Area	FEH: 10 years: +0 %: 15 mins: Winter	0.03	7.3	3.359
Catchment Area (1)	FEH: 10 years: +0 %: 15 mins: Winter	0.03	7.2	3.323
Catchment Area (2)	FEH: 10 years: +0 %: 15 mins: Winter	0.02	4.9	2.259
Catchment Area (3)	FEH: 10 years: +0 %: 15 mins: Winter	0.02	4.2	1.951
Catchment Area (4)	FEH: 10 years: +0 %: 15 mins: Winter	0.02	6.0	2.754
Catchment Area (5)	FEH: 10 years: +0 %: 15 mins: Winter	0.04	11.2	5.168
Catchment Area (6)	FEH: 10 years: +0 %: 15 mins: Winter	0.04	10.7	4.944
Catchment Area (7)	FEH: 10 years: +0 %: 15 mins: Winter	0.03	7.6	3.512

Project: West of Ifield Phase 1A	Date: 27/11/2023			
Report Details: Type: Inflows Summary Storm Phase: Outfall-1 without Pond	Designed by: D.Samuel	Checked by:	Approved By:	
	Company Address: Arcadis			



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Inflows Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis			

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area (32)	FEH: 30 years: +0 %: 15 mins: Winter	0.03	12.1	5.579
Catchment Area (33)	FEH: 30 years: +0 %: 15 mins: Winter	0.03	12.2	5.636
Catchment Area (104)	FEH: 30 years: +0 %: 15 mins: Winter	0.04	14.1	6.502
Catchment Area (105)	FEH: 30 years: +0 %: 15 mins: Winter	0.05	18.8	8.701
Catchment Area (107)	FEH: 30 years: +0 %: 15 mins: Winter	0.09	30.4	14.055
Catchment Area (108)	FEH: 30 years: +0 %: 15 mins: Winter	0.04	12.8	5.927
Catchment Area (110)	FEH: 30 years: +0 %: 15 mins: Winter	0.04	14.2	6.562
Catchment Area (111)	FEH: 30 years: +0 %: 15 mins: Winter	0.04	15.1	6.954
Catchment Area	FEH: 30 years: +0 %: 15 mins: Winter	0.03	9.5	4.381
Catchment Area (1)	FEH: 30 years: +0 %: 15 mins: Winter	0.03	9.4	4.330
Catchment Area (2)	FEH: 30 years: +0 %: 15 mins: Winter	0.02	6.4	2.942
Catchment Area (3)	FEH: 30 years: +0 %: 15 mins: Winter	0.02	5.5	2.538
Catchment Area (4)	FEH: 30 years: +0 %: 15 mins: Winter	0.02	7.8	3.584
Catchment Area (5)	FEH: 30 years: +0 %: 15 mins: Winter	0.04	14.6	6.730
Catchment Area (6)	FEH: 30 years: +0 %: 15 mins: Winter	0.04	13.9	6.439
Catchment Area (7)	FEH: 30 years: +0 %: 15 mins: Winter	0.03	9.9	4.575

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Inflows Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis			



FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Inflow

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis	



Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area (32)	FEH: 100 years: +40 %: 15 mins: Winter	0.03	21.3	9.856
Catchment Area (33)	FEH: 100 years: +40 %: 15 mins: Winter	0.03	21.5	9.970
Catchment Area (104)	FEH: 100 years: +40 %: 15 mins: Winter	0.04	24.8	11.485
Catchment Area (105)	FEH: 100 years: +40 %: 15 mins: Winter	0.05	33.2	15.387
Catchment Area (107)	FEH: 100 years: +40 %: 15 mins: Winter	0.09	53.7	24.841
Catchment Area (108)	FEH: 100 years: +40 %: 15 mins: Winter	0.04	22.6	10.474
Catchment Area (110)	FEH: 100 years: +40 %: 15 mins: Winter	0.04	25.1	11.602
Catchment Area (111)	FEH: 100 years: +40 %: 15 mins: Winter	0.04	26.6	12.291
Catchment Area	FEH: 100 years: +40 %: 15 mins: Winter	0.03	16.7	7.735
Catchment Area (1)	FEH: 100 years: +40 %: 15 mins: Winter	0.03	16.5	7.648
Catchment Area (2)	FEH: 100 years: +40 %: 15 mins: Winter	0.02	11.2	5.198
Catchment Area (3)	FEH: 100 years: +40 %: 15 mins: Winter	0.02	9.7	4.487
Catchment Area (4)	FEH: 100 years: +40 %: 15 mins: Winter	0.02	13.7	6.338
Catchment Area (5)	FEH: 100 years: +40 %: 15 mins: Winter	0.04	25.7	11.893
Catchment Area (6)	FEH: 100 years: +40 %: 15 mins: Winter	0.04	24.6	11.380
Catchment Area (7)	FEH: 100 years: +40 %: 15 mins: Winter	0.03	17.5	8.089

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			



FEH: 5 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH-05	FEH: 5 years: +0 %: 15 mins: Winter	68.19 7	67.31 4	67.383	0.069	8.6	0.078	0.000	8.4	4.003	OK
MH-01	FEH: 5 years: +0 %: 15 mins: Winter	68.19 1	67.22 0	67.305	0.085	11.6	0.096	0.000	11.0	5.359	OK
MH-07	FEH: 5 years: +0 %: 15 mins: Winter	68.39 5	67.10 9	67.181	0.072	8.9	0.082	0.000	7.6	5.383	OK
MH-02	FEH: 5 years: +0 %: 240 mins: Winter	68.37 6	67.06 5	67.174	0.109	2.5	0.123	0.000	2.4	14.227	OK
MH-08	FEH: 5 years: +0 %: 120 mins: Winter	68.58 1	66.96 1	67.068	0.107	4.4	0.121	0.000	4.4	19.064	OK
MH-3	FEH: 5 years: +0 %: 240 mins: Winter	68.62 9	66.91 3	66.937	0.024	2.7	0.028	0.000	2.7	27.350	OK
MH-11	FEH: 5 years: +0 %: 120 mins: Winter	67.51 8	66.31 3	66.826	0.513	10.0	0.581	0.000	10.0	58.541	Surcharged
OF 1-19	FEH: 5 years: +0 %: 480 mins: Winter	66.30 0	65.93 2	65.982	0.050	3.3	0.000	0.000	3.3	125.620	OK
OF 1-13	FEH: 5 years: +0 %: 240 mins: Winter		66.89 0	66.898	0.008	0.0			0.0	0.009	OK
OF 1-16	FEH: 5 years: +0 %: 15 mins: Summer		66.95 0	66.950	0.000	0.0			0.0	0.000	OK
OF 1-14	FEH: 5 years: +0 %: 480 mins: Winter		66.73 4	66.773	0.039	0.8			0.8	7.331	OK
OF 1-17	FEH: 5 years: +0 %: 480 mins: Winter		66.69 6	66.794	0.098	0.9			0.9	8.127	OK
MH-15	FEH: 5 years: +0 %: 480 mins: Winter	68.27 1	66.37 3	66.770	0.397	2.0	0.449	0.000	2.0	45.709	OK
MH-06	FEH: 5 years: +0 %: 120 mins: Winter	68.33 5	67.17 1	67.357	0.186	2.9	0.210	0.000	2.5	8.502	Surcharged
MH-09	FEH: 5 years: +0 %: 120 mins: Winter	68.63 8	66.75 8	67.055	0.297	4.4	0.336	0.000	4.5	23.186	Surcharged
MH-10	FEH: 5 years: +0 %: 120 mins: Winter	68.62 3	66.70 1	67.002	0.301	5.1	0.340	0.000	5.0	27.105	Surcharged
MH-4	FEH: 5 years: +0 %: 120 mins: Winter	68.61 5	66.64 9	66.838	0.189	8.4	0.214	0.000	8.8	50.188	OK
MH-18	FEH: 5 years: +0 %: 480 mins: Winter	68.26 1	66.42 7	66.793	0.366	1.0	0.414	0.000	1.0	18.832	Surcharged

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			



FEH: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH-05	FEH: 10 years: +0 %: 120 mins: Winter	68.197	67.314	67.419	0.105	3.5	0.119	0.000	3.5	10.375	OK
MH-01	FEH: 10 years: +0 %: 15 mins: Winter	68.191	67.220	67.316	0.096	14.5	0.108	0.000	13.8	6.700	OK
MH-07	FEH: 10 years: +0 %: 15 mins: Winter	68.395	67.109	67.191	0.082	11.2	0.092	0.000	9.7	6.784	OK
MH-02	FEH: 10 years: +0 %: 240 mins: Winter	68.376	67.065	67.227	0.162	3.0	0.184	0.000	2.8	16.962	Surcharged
MH-08	FEH: 10 years: +0 %: 120 mins: Winter	68.581	66.961	67.177	0.216	5.4	0.244	0.000	4.9	23.813	Surcharged
MH-3	FEH: 10 years: +0 %: 120 mins: Winter	68.629	66.913	66.949	0.036	3.0	0.040	0.000	3.0	24.739	OK
MH-11	FEH: 10 years: +0 %: 120 mins: Winter	67.518	66.313	66.933	0.620	11.1	0.701	0.000	11.1	74.605	Surcharged
OF 1-19	FEH: 10 years: +0 %: 480 mins: Winter	66.300	65.932	65.982	0.050	3.3	0.000	0.000	3.3	141.777	OK
OF 1-13	FEH: 10 years: +0 %: 120 mins: Winter		66.890	66.903	0.013	0.1			0.0	0.015	OK
OF 1-16	FEH: 10 years: +0 %: 15 mins: Summer		66.950	66.950	0.000	0.0			0.0	0.000	OK
OF 1-14	FEH: 10 years: +0 %: 480 mins: Winter		66.734	66.835	0.102	0.9			0.9	9.586	OK
OF 1-17	FEH: 10 years: +0 %: 480 mins: Winter		66.696	66.857	0.161	1.0			1.0	10.508	Surcharged
MH-15	FEH: 10 years: +0 %: 480 mins: Winter	68.271	66.373	66.834	0.461	2.2	0.522	0.000	2.2	57.692	Surcharged
MH-06	FEH: 10 years: +0 %: 120 mins: Winter	68.335	67.171	67.419	0.248	3.5	0.280	0.000	3.0	10.350	Surcharged
MH-09	FEH: 10 years: +0 %: 120 mins: Winter	68.638	66.758	67.162	0.404	4.8	0.457	0.000	4.9	29.569	Surcharged
MH-10	FEH: 10 years: +0 %: 120 mins: Winter	68.623	66.701	67.108	0.407	5.4	0.460	0.000	5.4	34.700	Surcharged
MH-4	FEH: 10 years: +0 %: 120 mins: Winter	68.615	66.649	66.947	0.298	9.1	0.337	0.000	9.5	64.515	Surcharged
MH-18	FEH: 10 years: +0 %: 480 mins: Winter	68.261	66.427	66.856	0.429	1.1	0.486	0.000	1.1	24.271	Surcharged

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH-05	FEH: 30 years: +0 %: 120 mins: Winter	68.197	67.314	67.551	0.237	4.6	0.268	0.000	4.5	13.327	Surcharged
MH-01	FEH: 30 years: +0 %: 15 mins: Winter	68.191	67.220	67.332	0.112	18.8	0.126	0.000	18.1	8.723	OK
MH-07	FEH: 30 years: +0 %: 120 mins: Winter	68.395	67.109	67.343	0.234	6.7	0.265	0.000	6.7	31.474	Surcharged
MH-02	FEH: 30 years: +0 %: 120 mins: Winter	68.376	67.065	67.324	0.259	6.1	0.293	0.000	5.8	17.813	Surcharged
MH-08	FEH: 30 years: +0 %: 120 mins: Winter	68.581	66.961	67.342	0.381	6.7	0.431	0.000	5.5	31.265	Surcharged
MH-3	FEH: 30 years: +0 %: 60 mins: Winter	68.629	66.913	67.121	0.208	3.5	0.235	0.000	3.9	15.219	OK
MH-11	FEH: 30 years: +0 %: 60 mins: Winter	67.518	66.313	67.109	0.796	12.9	0.901	0.000	12.7	59.168	Surcharged
OF 1-19	FEH: 30 years: +0 %: 720 mins: Summer	66.300	65.932	65.982	0.050	3.3	0.000	0.000	3.3	205.463	OK
OF 1-13	FEH: 30 years: +0 %: 360 mins: Winter		66.890	66.945	0.055	0.0			0.0	0.064	OK
OF 1-16	FEH: 30 years: +0 %: 15 mins: Summer		66.950	66.950	0.000	0.0			0.0	0.000	OK
OF 1-14	FEH: 30 years: +0 %: 480 mins: Winter		66.734	66.914	0.180	1.0			1.0	13.237	Surcharged
OF 1-17	FEH: 30 years: +0 %: 480 mins: Winter		66.696	66.937	0.241	1.1			1.0	14.402	Surcharged
MH-15	FEH: 30 years: +0 %: 480 mins: Winter	68.271	66.373	66.913	0.540	2.4	0.611	0.000	2.4	77.202	Surcharged
MH-06	FEH: 30 years: +0 %: 120 mins: Winter	68.335	67.171	67.550	0.379	4.5	0.429	0.000	3.8	13.301	Surcharged
MH-09	FEH: 30 years: +0 %: 120 mins: Winter	68.638	66.758	67.326	0.569	5.4	0.643	0.000	5.5	39.528	Surcharged
MH-10	FEH: 30 years: +0 %: 60 mins: Winter	68.623	66.701	67.266	0.565	6.2	0.639	0.000	6.0	29.283	Surcharged
MH-4	FEH: 30 years: +0 %: 60 mins: Winter	68.615	66.649	67.121	0.472	10.3	0.534	0.000	10.8	49.656	Surcharged
MH-18	FEH: 30 years: +0 %: 480 mins: Winter	68.261	66.427	66.937	0.510	1.0	0.576	0.000	1.0	33.483	Surcharged

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		





FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH-05	FEH: 100 years: +40 %: 120 mins: Winter	68.197	67.314	68.103	0.789	8.0	0.893	0.000	7.5	23.038	Flood Risk
MH-01	FEH: 100 years: +40 %: 120 mins: Winter	68.191	67.220	67.754	0.534	10.7	0.604	0.000	10.2	30.821	Surcharged
MH-07	FEH: 100 years: +40 %: 120 mins: Winter	68.395	67.109	67.876	0.767	9.4	0.868	0.000	8.8	50.237	Surcharged
MH-02	FEH: 100 years: +40 %: 120 mins: Winter	68.376	67.065	67.754	0.689	10.2	0.779	0.000	9.7	29.709	Surcharged
MH-08	FEH: 100 years: +40 %: 120 mins: Winter	68.581	66.961	67.874	0.913	8.8	1.033	0.000	8.2	49.325	Surcharged
MH-3	FEH: 100 years: +40 %: 60 mins: Winter	68.629	66.913	67.526	0.613	5.2	0.694	0.000	4.8	21.222	Surcharged
MH-11	FEH: 100 years: +40 %: 60 mins: Winter	67.518	66.313	67.506	1.193	15.8	1.350	0.000	15.8	80.776	Flood Risk
OF 1-19	FEH: 100 years: +40 %: 960 mins: Winter	66.300	65.932	65.984	0.052	3.5	0.000	0.000	3.5	306.602	OK
OF 1-13	FEH: 100 years: +40 %: 960 mins: Winter		66.890	67.279	0.389	0.0			0.0	0.450	Surcharged
OF 1-16	FEH: 100 years: +40 %: 960 mins: Winter		66.950	67.285	0.335	0.0			0.0	0.393	Surcharged
OF 1-14	FEH: 100 years: +40 %: 960 mins: Winter		66.734	67.276	0.542	0.9			0.9	30.899	Surcharged
OF 1-17	FEH: 100 years: +40 %: 960 mins: Winter		66.696	67.282	0.586	0.9			0.9	30.916	Surcharged
MH-15	FEH: 100 years: +40 %: 960 mins: Winter	68.271	66.373	67.276	0.903	2.8	1.022	0.000	2.5	152.024	Surcharged
MH-06	FEH: 100 years: +40 %: 120 mins: Winter	68.335	67.171	68.103	0.932	7.5	1.054	0.000	7.0	22.215	Flood Risk
MH-09	FEH: 100 years: +40 %: 120 mins: Winter	68.638	66.758	67.854	1.096	6.3	1.240	0.000	6.4	59.329	Surcharged
MH-10	FEH: 100 years: +40 %: 120 mins: Winter	68.623	66.701	67.752	1.051	7.7	1.188	0.000	7.8	72.365	Surcharged
MH-4	FEH: 100 years: +40 %: 60 mins: Winter	68.615	66.649	67.526	0.877	13.7	0.992	0.000	14.0	65.544	Surcharged
MH-18	FEH: 100 years: +40 %: 960 mins: Winter	68.261	66.427	67.282	0.855	0.9	0.967	0.000	0.8	60.155	Surcharged

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			



FEH: 5 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (29)	FEH: 5 years: +0 %: 30 mins: Winter	67.571	67.448	0.150	0.145	3.8	2.094	0.000	0.000	3.0	1.730	86.411	OK
Infiltration Trench (31)	FEH: 5 years: +0 %: 30 mins: Winter	67.476	67.324	0.149	0.146	3.8	2.130	0.000	0.000	3.0	1.733	86.451	OK
Infiltration Trench (38)	FEH: 5 years: +0 %: 240 mins: Winter	66.898	66.869	0.145	0.211	1.9	7.686	0.000	0.000	0.8	5.012	84.659	OK
Infiltration Trench (39)	FEH: 5 years: +0 %: 240 mins: Winter	66.897	66.828	0.144	0.234	2.0	7.840	0.000	0.000	1.0	5.664	84.333	OK
Infiltration Trench (40)	FEH: 5 years: +0 %: 480 mins: Winter	66.772	66.770	0.183	0.380	1.6	10.930	0.000	0.000	0.9	13.809	74.705	OK
Infiltration Trench (41)	FEH: 5 years: +0 %: 480 mins: Winter	66.794	66.793	0.244	0.443	1.7	13.343	0.000	0.000	1.0	14.978	69.138	OK
Infiltration Trench (42)	FEH: 5 years: +0 %: 60 mins: Winter	67.137	66.989	0.143	0.139	1.9	1.551	0.000	0.000	1.8	1.636	87.044	OK
Infiltration Trench (43)	FEH: 5 years: +0 %: 120 mins: Winter	66.896	66.894	0.170	0.192	1.1	1.911	0.000	0.000	0.7	1.978	83.748	OK
Infiltration Trench	FEH: 5 years: +0 %: 120 mins: Winter	67.357	67.355	0.323	0.355	4.1	7.633	0.000	0.000	1.8	10.415	69.434	OK
Infiltration Trench (1)	FEH: 5 years: +0 %: 240 mins: Winter	67.173	67.167	0.253	0.353	6.5	23.280	0.000	0.000	2.7	27.362	72.632	OK
Infiltration Trench (2)	FEH: 5 years: +0 %: 120 mins: Winter	67.066	67.058	0.278	0.408	7.0	9.420	0.000	0.000	4.4	23.199	69.069	OK
T1	FEH: 5 years: +0 %: 720 mins: Winter	66.340	66.340	0.340	0.340	8.5	84.703	0.000	0.000	3.3	156.269	66.105	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			



FEH: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max.
Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (29)	FEH: 10 years: +0 %: 30 mins: Winter	67.576	67.451	0.155	0.148	4.7	2.176	0.000	0.000	4.6	2.598	85.879	OK
Infiltration Trench (31)	FEH: 10 years: +0 %: 30 mins: Winter	67.481	67.329	0.154	0.151	4.8	2.218	0.000	0.000	4.7	2.614	85.891	OK
Infiltration Trench (38)	FEH: 10 years: +0 %: 240 mins: Winter	66.902	66.896	0.148	0.238	2.2	8.626	0.000	0.000	1.0	7.062	82.781	OK
Infiltration Trench (39)	FEH: 10 years: +0 %: 360 mins: Winter	66.897	66.871	0.144	0.277	1.8	9.031	0.000	0.000	1.1	9.381	81.954	OK
Infiltration Trench (40)	FEH: 10 years: +0 %: 480 mins: Winter	66.836	66.834	0.247	0.444	2.2	13.417	0.000	0.000	1.0	18.028	68.949	OK
Infiltration Trench (41)	FEH: 10 years: +0 %: 480 mins: Winter	66.857	66.857	0.307	0.507	2.2	15.808	0.000	0.000	1.1	19.544	63.435	OK
Infiltration Trench (42)	FEH: 10 years: +0 %: 30 mins: Winter	67.142	66.994	0.148	0.144	3.2	1.613	0.000	0.000	3.1	1.597	86.528	OK
Infiltration Trench (43)	FEH: 10 years: +0 %: 60 mins: Winter	66.922	66.921	0.197	0.219	2.1	2.195	0.000	0.000	0.9	1.898	81.334	OK
Infiltration Trench	FEH: 10 years: +0 %: 120 mins: Winter	67.418	67.417	0.385	0.417	5.0	9.020	0.000	0.000	2.1	13.257	63.880	OK
Infiltration Trench (1)	FEH: 10 years: +0 %: 240 mins: Winter	67.227	67.218	0.306	0.404	7.6	27.333	0.000	0.000	3.0	34.469	67.866	OK
Infiltration Trench (2)	FEH: 10 years: +0 %: 120 mins: Winter	67.175	67.165	0.387	0.515	8.1	12.389	0.000	0.000	4.8	29.584	59.322	OK
T1	FEH: 10 years: +0 %: 720 mins: Winter	66.427	66.427	0.427	0.427	9.6	106.463	0.000	0.000	3.3	187.066	57.398	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (29)	FEH: 30 years: +0 %: 30 mins: Winter	67.581	67.455	0.160	0.152	6.2	2.250	0.000	0.000	6.2	3.988	85.399	OK
Infiltration Trench (31)	FEH: 30 years: +0 %: 30 mins: Winter	67.486	67.332	0.158	0.154	6.3	2.281	0.000	0.000	6.2	4.022	85.488	OK
Infiltration Trench (38)	FEH: 30 years: +0 %: 360 mins: Winter	66.945	66.945	0.192	0.287	2.1	10.761	0.000	0.000	1.1	12.073	78.519	OK
Infiltration Trench (39)	FEH: 30 years: +0 %: 480 mins: Winter	66.949	66.949	0.196	0.355	1.8	12.390	0.000	0.000	1.1	14.404	75.240	OK
Infiltration Trench (40)	FEH: 30 years: +0 %: 480 mins: Winter	66.914	66.913	0.325	0.523	2.4	16.474	0.000	0.000	1.0	24.867	61.874	OK
Infiltration Trench (41)	FEH: 30 years: +0 %: 480 mins: Winter	66.937	66.937	0.387	0.587	2.8	18.927	0.000	0.000	1.0	27.313	56.220	OK
Infiltration Trench (42)	FEH: 30 years: +0 %: 30 mins: Winter	67.146	66.998	0.152	0.148	4.2	1.660	0.000	0.000	4.2	2.544	86.136	OK
Infiltration Trench (43)	FEH: 30 years: +0 %: 60 mins: Winter	66.976	66.976	0.251	0.273	2.8	2.768	0.000	0.000	1.2	2.956	76.465	OK
Infiltration Trench	FEH: 30 years: +0 %: 120 mins: Winter	67.550	67.549	0.516	0.549	6.3	11.987	0.000	0.000	2.1	17.692	51.997	OK
Infiltration Trench (1)	FEH: 30 years: +0 %: 120 mins: Winter	67.323	67.312	0.403	0.498	15.6	34.658	0.000	0.000	3.6	31.172	59.255	OK
Infiltration Trench (2)	FEH: 30 years: +0 %: 120 mins: Winter	67.340	67.330	0.552	0.680	9.7	16.920	0.000	0.000	5.4	39.558	44.444	OK
T1	FEH: 30 years: +0 %: 960 mins: Winter	66.570	66.570	0.570	0.570	10.0	142.158	0.000	0.000	3.3	266.178	43.114	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis			



FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By:
Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (29)	FEH: 100 years: +40 %: 120 mins: Winter	67.752	67.752	0.331	0.449	5.3	5.416	0.000	0.000	5.2	13.836	64.859	OK
Infiltration Trench (31)	FEH: 100 years: +40 %: 60 mins: Winter	67.531	67.530	0.204	0.352	8.6	3.938	0.000	0.000	8.2	11.539	74.952	OK
Infiltration Trench (38)	FEH: 100 years: +40 %: 960 mins: Winter	67.279	67.279	0.526	0.621	1.7	25.796	0.000	0.000	0.9	31.647	48.510	OK
Infiltration Trench (39)	FEH: 100 years: +40 %: 960 mins: Winter	67.286	67.285	0.532	0.691	1.8	27.500	0.000	0.000	0.9	31.761	45.047	OK
Infiltration Trench (40)	FEH: 100 years: +40 %: 960 mins: Winter	67.277	67.276	0.687	0.886	2.0	30.560	0.000	0.000	0.7	49.036	29.276	OK
Infiltration Trench (41)	FEH: 100 years: +40 %: 960 mins: Winter	67.282	67.282	0.732	0.932	1.9	32.340	0.000	0.000	0.7	47.373	25.196	OK
Infiltration Trench (42)	FEH: 100 years: +40 %: 960 mins: Winter	67.276	67.276	0.282	0.426	0.8	3.811	0.000	0.000	0.8	16.260	68.166	OK
Infiltration Trench (43)	FEH: 100 years: +40 %: 960 mins: Winter	67.283	67.282	0.558	0.580	0.7	6.009	0.000	0.000	0.5	13.374	48.909	OK
Infiltration Trench	FEH: 100 years: +40 %: 120 mins: Winter	68.103	68.101	1.069	1.101	11.4	24.424	0.000	0.000	2.5	26.131	2.193	Flood Risk
Infiltration Trench (1)	FEH: 100 years: +40 %: 120 mins: Winter	67.753	67.739	0.832	0.925	27.0	67.515	0.000	0.000	4.6	43.182	20.628	OK
Infiltration Trench (2)	FEH: 100 years: +40 %: 120 mins: Winter	67.872	67.859	1.084	1.209	15.5	31.484	0.000	0.000	6.3	59.418	-3.379	Flood Risk
T1	FEH: 100 years: +40 %: 960 mins: Winter	67.200	67.200	1.200	1.200	12.8	249.733	0.000	0.000	3.5	306.668	0.067	OK

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis		



FEH: 5 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
OF 1-5.000	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	OF 1-13	Infiltration Trench (38)	68.056	66.897	0.013	0.000	0.0	0	0.0	OK
OF 1-7.000	FEH: 5 years: +0 %: 15 mins: Summer	Pipe	OF 1-16	Infiltration Trench (39)	68.051	66.950	0.000	0.000	0.0	0	0.0	OK
OF 1-5.001	FEH: 5 years: +0 %: 360 mins: Winter	Pipe	Infiltration Trench (38)	OF 1-14	68.053	66.829	0.026	6.354	0.5	0.03	0.8	OK
OF 1-7.001	FEH: 5 years: +0 %: 240 mins: Winter	Pipe	Infiltration Trench (39)	OF 1-17	68.053	66.769	0.067	5.663	0.4	0.06	1.0	OK
OF 1-5.002	FEH: 5 years: +0 %: 360 mins: Winter	Pipe	OF 1-14	Infiltration Trench (40)	68.269	66.768	0.044	6.352	0.4	0.06	0.8	OK
OF 1-7.002	FEH: 5 years: +0 %: 240 mins: Winter	Pipe	OF 1-17	Infiltration Trench (41)	68.261	66.775	0.089	5.661	0.4	0.06	1.0	OK
OF 1-5.003	FEH: 5 years: +0 %: 360 mins: Summer	Pipe	Infiltration Trench (40)	MH-15	67.889	66.624	0.150	9.272	0.7	0.29	10.2	OK
OF 1-6.000	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (42)	MH-15	68.294	66.994	0.115	1.636	0.2	0.02	1.8	OK
OF 1-2.000	FEH: 5 years: +0 %: 15 mins: Winter	Pipe	MH-05	MH-06	68.197	67.383	0.081	4.003	0.7	0.2	8.4	OK
OF 1-1.000	FEH: 5 years: +0 %: 15 mins: Winter	Pipe	MH-01	MH-02	68.191	67.305	0.096	5.359	0.7	0.3	11.0	OK
OF 1-2.003	FEH: 5 years: +0 %: 15 mins: Winter	Pipe	MH-07	MH-08	68.395	67.181	0.071	5.067	0.7	0.21	7.6	OK
OF 1-1.001	FEH: 5 years: +0 %: 15 mins: Winter	Pipe	MH-02	Infiltration Trench (1)	68.376	67.172	0.103	5.291	0.8	0.75	10.0	OK
OF 1-1.002	FEH: 5 years: +0 %: 240 mins: Winter	Pipe	Infiltration Trench (1)	MH-3	68.221	67.117	0.034	27.356	0.9	0.19	2.7	Surcharged
OF 1-2.005	FEH: 5 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (2)	MH-09	68.088	66.931	0.150	8.817	0.4	0.35	5.1	Surcharged
OF 1-2.004	FEH: 5 years: +0 %: 15 mins: Winter	Pipe	MH-08	Infiltration Trench (2)	68.581	67.031	0.072	4.979	0.8	0.31	6.8	OK
OF 1-2.001	FEH: 5 years: +0 %: 15 mins: Summer	Pipe	MH-06	Infiltration Trench	68.335	67.257	0.081	3.429	0.7	0.51	7.3	OK
OF 1-2.002	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench	MH-07	68.334	67.339	0.047	10.278	0.5	0.13	1.8	Surcharged
OF 1-2.006	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-09	MH-10	68.638	67.055	0.225	23.182	0.4	0.12	4.5	Surcharged
OF 1-2.007	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-10	MH-4	68.623	67.002	0.164	27.109	0.6	0.07	5.1	Surcharged

Project: West of Ifield Phase 1A		Date: 27/11/2023				
		Designed by: D.Samuel	Checked by:	Approved By:		
Report Details: Type: Connections Summary Storm Phase: Outfall-1 without Pond		Company Address: Arcadis				

OF 1-1.004	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-4	MH-11	68.615	66.838	0.225	50.188	0.3	0.18	8.8	OK
OF 1-1.003	FEH: 5 years: +0 %: 240 mins: Winter	Pipe	MH-3	MH-4	68.629	66.937	0.086	27.350	0.6	0.01	2.7	OK
OF 1-3.000	FEH: 5 years: +0 %: 30 mins: Winter	Pipe	Infiltratio n Trench (29)	MH-10	68.721	67.454	0.129	1.730	0.5	0.04	3.0	OK
OF 1-4.000	FEH: 5 years: +0 %: 30 mins: Winter	Pipe	Infiltratio n Trench (31)	MH-4	68.628	67.329	0.050	1.733	1.5	0.04	3.0	OK
OF 1-7.003	FEH: 5 years: +0 %: 360 mins: Winter	Pipe	Infiltratio n Trench (41)	MH-18	67.850	66.689	0.150	12.433	0.2	0.05	1.0	Surch arged
OF 1-8.000	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	Infiltratio n Trench (43)	MH-18	68.025	66.884	0.147	1.977	0.1	0.01	0.7	OK
OF 1-7.004	FEH: 5 years: +0 %: 360 mins: Winter	Pipe	MH-18	MH-15	68.261	66.788	0.300	15.772	0.1	0.01	1.1	Surch arged
OF 1-5.004	FEH: 5 years: +0 %: 480 mins: Winter	Pipe	MH-15	T1	68.271	66.770	0.178	45.172	0.4	0.01	2.0	OK
OF 1-1.005	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-11	T1	67.518	66.826	0.121	58.528	1.2	0.23	10.0	Surch arged
Outfall	FEH: 5 years: +0 %: 480 mins: Winter	Pipe	T1	OF 1-19	67.300	66.333	0.051	125.620	0.6	0.24	3.3	Surch arged

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis			



FEH: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
OF 1-5.000	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	OF 1-13	Infiltration Trench (38)	68.056	66.901	0.017	0.000	0.0	0	0.0	OK
OF 1-7.000	FEH: 10 years: +0 %: 15 mins: Summer	Pipe	OF 1-16	Infiltration Trench (39)	68.051	66.950	0.000	0.000	0.0	0	0.0	OK
OF 1-5.001	FEH: 10 years: +0 %: 240 mins: Winter	Pipe	Infiltration Trench (38)	OF 1-14	68.053	66.850	0.064	7.047	0.5	0.04	1.0	OK
OF 1-7.001	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (39)	OF 1-17	68.053	66.785	0.089	5.267	0.5	0.07	1.1	OK
OF 1-5.002	FEH: 10 years: +0 %: 240 mins: Winter	Pipe	OF 1-14	Infiltration Trench (40)	68.269	66.823	0.099	7.044	0.4	0.07	1.0	OK
OF 1-7.002	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	OF 1-17	Infiltration Trench (41)	68.261	66.797	0.112	5.261	0.4	0.07	1.1	OK
OF 1-5.003	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	Infiltration Trench (40)	MH-15	67.889	66.523	0.150	0.000	0.1	0.04	1.4	OK
OF 1-6.000	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (42)	MH-15	68.294	67.000	0.133	1.597	0.2	0.04	3.1	OK
OF 1-2.000	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-05	MH-06	68.197	67.391	0.096	5.003	0.6	0.25	10.4	OK
OF 1-1.000	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-01	MH-02	68.191	67.316	0.111	6.700	0.7	0.38	13.8	OK
OF 1-2.003	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-07	MH-08	68.395	67.191	0.082	6.441	0.7	0.26	9.7	OK
OF 1-1.001	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-02	Infiltration Trench (1)	68.376	67.190	0.130	6.600	0.9	0.94	12.6	OK
OF 1-1.002	FEH: 10 years: +0 %: 240 mins: Winter	Pipe	Infiltration Trench (1)	MH-3	68.221	67.170	0.036	34.462	0.9	0.21	3.0	Surcharged
OF 1-2.005	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (2)	MH-09	68.088	67.078	0.150	20.342	0.4	0.34	4.9	Surcharged

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis			

OF 1-2.004	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-08	Infiltration Trench (2)	68.581	67.044	0.087	6.348	0.8	0.4	8.7	OK
OF 1-2.001	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-06	Infiltration Trench	68.335	67.317	0.150	4.622	0.6	0.64	9.1	OK
OF 1-2.002	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench	MH-07	68.334	67.401	0.064	13.112	0.6	0.14	2.1	Surcharged
OF 1-2.006	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	MH-09	MH-10	68.638	67.139	0.225	20.253	0.4	0.14	5.2	Surcharged
OF 1-2.007	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	MH-10	MH-4	68.623	67.093	0.271	23.874	0.5	0.08	5.6	Surcharged
OF 1-1.004	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	MH-4	MH-11	68.615	66.945	0.225	39.814	0.3	0.2	9.5	Surcharged
OF 1-1.003	FEH: 10 years: +0 %: 240 mins: Winter	Pipe	MH-3	MH-4	68.629	66.938	0.124	34.454	0.6	0.02	3.0	OK
OF 1-3.000	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (29)	MH-10	68.721	67.460	0.150	2.598	0.3	0.06	4.6	OK
OF 1-4.000	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (31)	MH-4	68.628	67.335	0.115	2.614	0.9	0.07	4.7	OK
OF 1-7.003	FEH: 10 years: +0 %: 360 mins: Summer	Pipe	Infiltration Trench (41)	MH-18	67.850	66.713	0.150	13.503	0.4	0.11	2.3	Surcharged
OF 1-8.000	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (43)	MH-18	68.025	66.911	0.150	1.896	0.1	0.01	0.9	OK
OF 1-7.004	FEH: 10 years: +0 %: 360 mins: Winter	Pipe	MH-18	MH-15	68.261	66.854	0.300	20.689	0.1	0.01	1.2	Surcharged
OF 1-5.004	FEH: 10 years: +0 %: 480 mins: Winter	Pipe	MH-15	T1	68.271	66.834	0.228	57.092	0.4	0.01	2.2	Surcharged
OF 1-1.005	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-11	T1	67.518	66.933	0.152	74.522	1.2	0.26	11.1	Surcharged
Outfall	FEH: 10 years: +0 %: 480 mins: Winter	Pipe	T1	OF 1-19	67.300	66.414	0.051	141.777	0.6	0.24	3.3	Surcharged

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details:	Company Address: Arcadis			
Type: Connections Summary Storm Phase: Outfall-1 without Pond				



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
OF 1-5.000	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	OF 1-13	Infiltration Trench (38)	68.056	66.908	0.024	0.000	0.0	0	0.0	OK
OF 1-7.000	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	OF 1-16	Infiltration Trench (39)	68.051	66.950	0.005	0.000	0.0	0	0.0	OK
OF 1-5.001	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (38)	OF 1-14	68.053	66.886	0.107	7.487	0.5	0.05	1.1	OK
OF 1-7.001	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (39)	OF 1-17	68.053	66.840	0.150	6.469	0.5	0.08	1.2	OK
OF 1-5.002	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	OF 1-14	Infiltration Trench (40)	68.269	66.803	0.079	4.545	0.3	0.08	1.1	OK
OF 1-7.002	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	OF 1-17	Infiltration Trench (41)	68.261	66.825	0.140	3.895	0.3	0.08	1.2	OK
OF 1-5.003	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (40)	MH-15	67.889	66.631	0.150	0.000	0.1	0.06	2.2	OK
OF 1-6.000	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (42)	MH-15	68.294	67.004	0.150	2.544	0.2	0.06	4.2	OK
OF 1-2.000	FEH: 30 years: +0 %: 15 mins: Winter	Pipe	MH-05	MH-06	68.197	67.403	0.148	6.418	0.7	0.33	13.6	OK
OF 1-1.000	FEH: 30 years: +0 %: 15 mins: Winter	Pipe	MH-01	MH-02	68.191	67.332	0.136	8.723	0.7	0.49	18.1	OK
OF 1-2.003	FEH: 30 years: +0 %: 15 mins: Winter	Pipe	MH-07	MH-08	68.395	67.204	0.101	8.437	0.8	0.35	12.8	OK
OF 1-1.001	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	MH-02	Infiltration Trench (1)	68.376	67.224	0.150	7.599	0.9	1.13	15.2	Surcharged
OF 1-1.002	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (1)	MH-3	68.221	67.266	0.150	31.120	1.0	0.25	3.6	Surcharged
OF 1-2.005	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (2)	MH-09	68.088	67.256	0.150	24.573	0.3	0.38	5.5	Surcharged

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis			

OF 1-2.004	FEH: 30 years: +0 %: 15 mins: Winter	Pipe	MH-08	Infiltration Trench (2)	68.581	67.124	0.150	7.946	0.9	0.53	11.6	Surcharged
OF 1-2.001	FEH: 30 years: +0 %: 15 mins: Winter	Pipe	MH-06	Infiltration Trench	68.335	67.391	0.150	5.782	0.7	0.85	12.0	Surcharged
OF 1-2.002	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench	MH-07	68.334	67.532	0.150	17.529	0.6	0.15	2.2	Surcharged
OF 1-2.006	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-09	MH-10	68.638	67.316	0.225	24.087	0.1	0.16	5.8	Surcharged
OF 1-2.007	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-10	MH-4	68.623	67.266	0.300	29.157	0.5	0.09	6.2	Surcharged
OF 1-1.004	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-4	MH-11	68.615	67.121	0.225	49.564	0.3	0.23	10.8	Surcharged
OF 1-1.003	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	MH-3	MH-4	68.629	67.079	0.297	6.187	0.3	0.02	3.9	OK
OF 1-3.000	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (29)	MH-10	68.721	67.465	0.150	3.988	1.8	0.08	6.2	OK
OF 1-4.000	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (31)	MH-4	68.628	67.339	0.150	4.022	2.1	0.09	6.2	OK
OF 1-7.003	FEH: 30 years: +0 %: 240 mins: Summer	Pipe	Infiltration Trench (41)	MH-18	67.850	66.782	0.150	13.707	0.1	0.06	1.2	Surcharged
OF 1-8.000	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (43)	MH-18	68.025	66.965	0.150	2.953	0.1	0.02	1.2	OK
OF 1-7.004	FEH: 30 years: +0 %: 240 mins: Summer	Pipe	MH-18	MH-15	68.261	66.881	0.300	17.427	0.0	0.01	1.2	Surcharged
OF 1-5.004	FEH: 30 years: +0 %: 480 mins: Winter	Pipe	MH-15	T1	68.271	66.913	0.351	76.478	0.5	0.01	2.4	Surcharged
OF 1-1.005	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-11	T1	67.518	67.109	0.150	58.900	1.3	0.3	12.7	Surcharged
Outfall	FEH: 30 years: +0 %: 720 mins: Summer	Pipe	T1	OF 1-19	67.300	66.492	0.051	205.463	0.6	0.24	3.3	Surcharged

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis			



FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
OF 1-5.000	FEH: 100 years: +40 %: 15 mins: Summer	Pipe	OF 1-13	Infiltration Trench (38)	68.056	66.928	0.044	0.000	0.0	0.01	0.1	OK
OF 1-7.000	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	OF 1-16	Infiltration Trench (39)	68.051	67.006	0.092	0.000	0.0	0	0.0	OK
OF 1-5.001	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	Infiltration Trench (38)	OF 1-14	68.053	66.901	0.075	1.227	0.2	0.05	1.3	OK
OF 1-7.001	FEH: 100 years: +40 %: 60 mins: Summer	Pipe	Infiltration Trench (39)	OF 1-17	68.053	66.958	0.150	4.113	0.5	0.09	1.4	Surcharged
OF 1-5.002	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	OF 1-14	Infiltration Trench (40)	68.269	66.833	0.110	1.139	0.1	0.09	1.2	OK
OF 1-7.002	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	OF 1-17	Infiltration Trench (41)	68.261	66.794	0.108	1.239	0.3	0.08	1.3	OK
OF 1-5.003	FEH: 100 years: +40 %: 30 mins: Summer	Pipe	Infiltration Trench (40)	MH-15	67.889	66.788	0.150	0.019	0.4	0.13	4.8	Surcharged
OF 1-6.000	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	Infiltration Trench (42)	MH-15	68.294	67.022	0.150	3.813	0.6	0.13	10.3	OK
OF 1-2.000	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-05	MH-06	68.197	67.681	0.225	10.707	0.6	0.5	20.4	Surcharged
OF 1-1.000	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-01	MH-02	68.191	67.544	0.225	14.802	0.7	0.79	29.1	Surcharged
OF 1-2.003	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-07	MH-08	68.395	67.493	0.225	12.501	0.7	0.69	25.4	Surcharged
OF 1-1.001	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-02	Infiltration Trench (1)	68.376	67.498	0.150	13.673	1.5	1.92	25.8	Surcharged
OF 1-1.002	FEH: 100 years: +40 %: 120 mins: Winter	Pipe	Infiltration Trench (1)	MH-3	68.221	67.694	0.150	43.111	1.0	0.32	4.7	Surcharged
OF 1-2.005	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	Infiltration Trench (2)	MH-09	68.088	67.783	0.150	27.635	0.4	0.44	6.4	Flood Risk

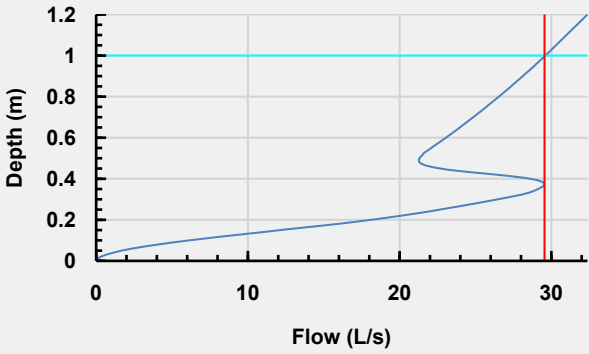
Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Outfall-1 without Pond	Company Address: Arcadis			

OF 1-2.004	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-08	Infiltration Trench (2)	68.581	67.493	0.150	11.186	1.1	0.93	20.2	Surcharged
OF 1-2.001	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-06	Infiltration Trench	68.335	67.683	0.150	9.573	1.0	1.3	18.4	Surcharged
OF 1-2.002	FEH: 100 years: +40 %: 120 mins: Winter	Pipe	Infiltration Trench	MH-07	68.334	68.085	0.150	25.913	0.6	0.18	2.6	Flood Risk
OF 1-2.006	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-09	MH-10	68.638	67.841	0.225	26.166	0.2	0.18	6.7	Surcharged
OF 1-2.007	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-10	MH-4	68.623	67.746	0.300	36.187	0.1	0.12	8.1	Surcharged
OF 1-1.004	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-4	MH-11	68.615	67.526	0.225	63.002	0.4	0.29	14.0	Surcharged
OF 1-1.003	FEH: 100 years: +40 %: 120 mins: Winter	Pipe	MH-3	MH-4	68.629	67.481	0.300	43.054	0.1	0.03	4.9	Surcharged
OF 1-3.000	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	Infiltration Trench (29)	MH-10	68.721	67.488	0.150	5.844	0.8	0.19	15.0	OK
OF 1-4.000	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	Infiltration Trench (31)	MH-4	68.628	67.390	0.150	5.896	0.9	0.22	15.2	OK
OF 1-7.003	FEH: 100 years: +40 %: 120 mins: Winter	Pipe	Infiltration Trench (41)	MH-18	67.850	67.031	0.150	0.000	0.1	0.05	1.0	Surcharged
OF 1-8.000	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	Infiltration Trench (43)	MH-18	68.025	67.120	0.150	3.403	0.1	0.02	1.8	Surcharged
OF 1-7.004	FEH: 100 years: +40 %: 240 mins: Summer	Pipe	MH-18	MH-15	68.261	67.126	0.300	14.083	0.0	0.01	1.2	Surcharged
OF 1-5.004	FEH: 100 years: +40 %: 240 mins: Winter	Pipe	MH-15	T1	68.271	67.170	0.450	52.721	0.7	0.01	2.9	Surcharged
OF 1-1.005	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-11	T1	67.518	67.506	0.203	80.403	1.4	0.37	15.8	Flood Risk
Outfall	FEH: 100 years: +40 %: 960 mins: Winter	Pipe	T1	OF 1-19	67.300	67.200	0.053	306.602	0.6	0.26	3.5	Surcharged

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Proposed Outfall-3	Company Address: Arcadis		



Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
MH-118	Outlet	OF-3-1.000	Free Discharge
MH-143	Outlet	OF-3-5.000	Free Discharge
MH-119	Outlet	OF-3-1.002	Free Discharge
MH-144	Outlet	OF-3-5.002	Free Discharge
MH-120	Outlet	OF-3-1.003	Free Discharge
MH-145	Outlet	OF-3-5.004	Free Discharge
MH-147	Outlet	OF-3-5.007	Free Discharge
MH-121	Outlet	OF-3-1.005	Free Discharge
MH-149	Outlet	OF-3-5.010	Free Discharge
MH-123	Outlet	OF-3-1.008	Free Discharge
MH-150	Outlet	OF-3-5.012	Free Discharge
MH-124	Outlet	OF-3-1.010	Free Discharge
MH-151	Outlet	OF-3-5.014	Free Discharge
MH-125	Outlet	OF-3-1.012	Free Discharge
MH-152	Outlet	OF-3-5.016	Free Discharge
MH-126	Outlet	OF-3-1.014	Free Discharge
MH-153	Outlet	OF-3-5.017	Free Discharge
MH-140	Outlet	Pipe (4)	Free Discharge
MH-141	Outlet	OF-3-4.001	Hydro-Brake®
	Invert Level (m)	66.078	
	Design Depth (m)	1.000	
	Design Flow (L/s)	29.614	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☐	
	Unit Reference	CHE-0224-2961-1000-2961	
			
MH-154	Outlet	OF-3-5.018	Free Discharge
MH-155	Outlet (1)	OF-3-5.019	Free Discharge
MH-127	Outlet	OF-3-1.015	Free Discharge
MH-128	Outlet (1)	OF-3-1.016	Free Discharge
MH-131	Outlet	OF-3-2.004	Free Discharge
MH-157	Outlet	OF-3-6.003	Free Discharge
MH-162	Outlet	OF-3-1.018	Free Discharge
MH-163	Outlet	OF-3-1.019	Free Discharge
MH-164	Outlet	OF-3-1.020	Free Discharge
MH-165	Outlet	OF-3-1.021	Free Discharge
MH-148	Outlet	OF-3-5.009	Free Discharge
MH-122	Outlet	OF-3-1.007	Free Discharge
MH-146	Outlet	OF-3-5.005	Free Discharge
MH-129	Outlet	OF-3-2.000	Free Discharge
MH-156	Outlet	OF-3-6.000	Free Discharge
MH-40	Outlet	OF-3-6.002	Free Discharge
MH-130	Outlet (1)	OF-3-2.002	Free Discharge
MH-134	Outlet	OF-3-3.002	Free Discharge
MH-135	Outlet	OF-3-3.003	Free Discharge

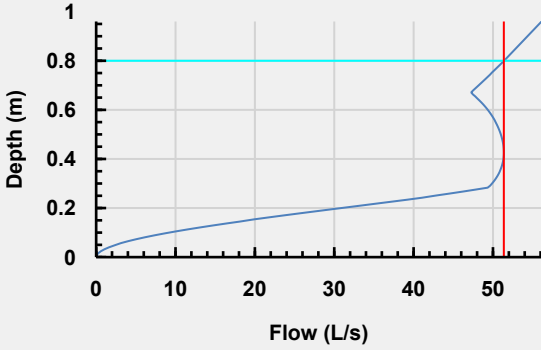
Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Proposed Outfall-3	Company Address: Arcadis		



Junction	Outlet Name	Outgoing Connection	Outlet Type
136	Outlet	OF-3-3.004	Free Discharge
MH-137	Outlet	OF-3-3.005	Orifice
	Diameter (m)	0.075	
	Coefficient of Discharge	0.600	
	Invert Level (m)	66.143	
MH-22	Outlet	OF-3-3.007	Free Discharge
MH-158	Outlet	Pipe (2)	Free Discharge
MH-159	Outlet	OF-3-7.001	Hydro-Brake®
	Invert Level (m)	66.840	
	Design Depth (m)	1.000	
	Design Flow (L/s)	12.428	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☐	
	Unit Reference	CHE-0152-1242-1000-1242	
MH-142	Outlet (1)	OF-3-3.008	Free Discharge
MH-132	Outlet	Pipe	Free Discharge
MH-133	Outlet	OF-3-3.001	Hydro-Brake®
	Invert Level (m)	66.530	
	Design Depth (m)	0.700	
	Design Flow (L/s)	4.5	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☐	
	Unit Reference	CHE-0101-4500-0700-4500	
138	Outlet (1)	OF-3-3.006	Orifice
	Diameter (m)	0.100	
	Coefficient of Discharge	0.600	
	Invert Level (m)	66.038	
MH-161	Outlet	OF-3-1.017	Free Discharge

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Proposed Outfall-3	Company Address: Arcadis		



Junction	Outlet Name	Outgoing Connection	Outlet Type
MH-166	Outlet	OF-3-1.023	Hydro-Brake®
	Invert Level (m)	64.796	
	Design Depth (m)	0.800	
	Design Flow (L/s)	51.4	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0300-5140-0800-5140	
			

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





P01

Type : Pond

Dimensions

Exceedance Level (m)	66.000
Depth (m)	1.100
Base Level (m)	64.900
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	4.00
Total Volume (m³)	430.279

Depth (m)	Area (m²)	Volume (m³)
0.000	412.00	0.000
1.100	789.42	649.629

Advanced

Perimeter	Circular
Length (m)	50.207
Friction Scheme	Manning's n
n	0.015



Future Plot Storage-3

Type : Tank

Dimensions

Exceedance Level (m)	67.630
Depth (m)	1.000
Base Level (m)	66.630
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	0.00
Total Volume (m³)	755.129

Depth (m)	Area (m²)	Volume (m³)
0.000	755.13	0.000
1.000	755.13	755.129

Advanced

Perimeter	Circular
Length (m)	44.854

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





Future Plot Storage-1

Type : Tank

Dimensions		
Exceedance Level (m)	68.000	
Depth (m)	1.100	
Base Level (m)	66.900	
Freeboard (mm)	0	
Initial Depth (m)	0.000	
Porosity (%)	100	
Average Slope (1:X)	0.00	
Total Volume (m³)	2500.075	
Depth (m)	Area (m²)	Volume (m³)
0.000	2272.80	0.000
1.100	2272.80	2500.075

Advanced	
Perimeter	Circular
Length (m)	75.458



Future Plot Storage-2

Type : Tank

Dimensions		
Exceedance Level (m)	67.400	
Depth (m)	1.300	
Base Level (m)	66.100	
Freeboard (mm)	0	
Initial Depth (m)	0.000	
Porosity (%)	100	
Average Slope (1:X)	0.00	
Total Volume (m³)	9405.697	
Depth (m)	Area (m²)	Volume (m³)
0.000	7235.15	343.170
1.300	7235.15	343.170

Advanced	
Perimeter	Circular
Length (m)	124.219

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Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





Infiltration Trench (65)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.210
Depth (m)	1.300
Base Level (m)	65.910
Freeboard (mm)	200
Porosity (%)	30
Length (m)	22.327
Long. Slope (1:X)	80.00
Width (m)	2.902
Total Volume (m³)	21.655

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





Infiltration Trench (66)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.480
Depth (m)	1.300
Base Level (m)	66.180
Freeboard (mm)	200
Porosity (%)	30
Length (m)	31.851
Long. Slope (1:X)	100.00
Width (m)	2.799
Total Volume (m³)	29.810

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
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Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





Infiltration Trench (67)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.620
Depth (m)	1.300
Base Level (m)	66.320
Freeboard (mm)	200
Porosity (%)	30
Length (m)	30.831
Long. Slope (1:X)	80.00
Width (m)	2.977
Total Volume (m³)	30.670

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
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Infiltration Trench (68)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.960
Depth (m)	1.300
Base Level (m)	66.660
Freeboard (mm)	200
Porosity (%)	30
Length (m)	18.324
Long. Slope (1:X)	80.00
Width (m)	2.714
Total Volume (m³)	16.635

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
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Infiltration Trench (17)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.960
Depth (m)	1.300
Base Level (m)	66.660
Freeboard (mm)	200
Porosity (%)	30
Length (m)	22.245
Long. Slope (1:X)	300.00
Width (m)	2.900
Total Volume (m³)	21.563

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
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Infiltration Trench (19)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.956
Depth (m)	1.300
Base Level (m)	66.656
Freeboard (mm)	200
Porosity (%)	30
Length (m)	28.335
Long. Slope (1:X)	300.00
Width (m)	2.704
Total Volume (m³)	25.634

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
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Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





Infiltration Trench (20)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.835
Depth (m)	1.300
Base Level (m)	66.535
Freeboard (mm)	200
Porosity (%)	30
Length (m)	23.290
Long. Slope (1:X)	250.00
Width (m)	2.775
Total Volume (m³)	21.620

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





Infiltration Trench (22)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.670
Depth (m)	1.300
Base Level (m)	66.370
Freeboard (mm)	200
Porosity (%)	30
Length (m)	12.034
Long. Slope (1:X)	300.00
Width (m)	2.358
Total Volume (m³)	9.511

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





Infiltration Trench (23)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.700
Depth (m)	1.300
Base Level (m)	66.400
Freeboard (mm)	200
Porosity (%)	30
Length (m)	23.429
Long. Slope (1:X)	300.00
Width (m)	2.677
Total Volume (m³)	20.986

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





Infiltration Trench (52)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.600
Depth (m)	1.300
Base Level (m)	66.300
Freeboard (mm)	200
Porosity (%)	30
Length (m)	11.220
Long. Slope (1:X)	200.00
Width (m)	2.878
Total Volume (m³)	10.794

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





Infiltration Trench (53)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.629
Depth (m)	1.300
Base Level (m)	66.329
Freeboard (mm)	200
Porosity (%)	1.3
Length (m)	10.767
Long. Slope (1:X)	500.00
Width (m)	2.870
Total Volume (m³)	0.630

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





Infiltration Trench (54)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.535
Depth (m)	1.300
Base Level (m)	66.235
Freeboard (mm)	200
Porosity (%)	30
Length (m)	12.299
Long. Slope (1:X)	500.00
Width (m)	2.860
Total Volume (m³)	11.759

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





Infiltration Trench (55)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.503
Depth (m)	1.300
Base Level (m)	66.203
Freeboard (mm)	200
Porosity (%)	30
Length (m)	14.301
Long. Slope (1:X)	500.00
Width (m)	2.916
Total Volume (m³)	13.939

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





Infiltration Trench (56)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.425
Depth (m)	1.300
Base Level (m)	66.125
Freeboard (mm)	200
Porosity (%)	30
Length (m)	42.265
Long. Slope (1:X)	500.00
Width (m)	2.974
Total Volume (m³)	41.997

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		



Infiltration Trench (57)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.380
Depth (m)	1.300
Base Level (m)	66.080
Freeboard (mm)	200
Porosity (%)	30
Length (m)	45.072
Long. Slope (1:X)	500.00
Width (m)	2.976
Total Volume (m³)	44.828

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





Infiltration Trench (58)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.335
Depth (m)	1.300
Base Level (m)	66.035
Freeboard (mm)	200
Porosity (%)	30
Length (m)	23.978
Long. Slope (1:X)	500.00
Width (m)	2.958
Total Volume (m³)	23.703

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





Infiltration Trench (59)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.275
Depth (m)	1.300
Base Level (m)	65.975
Freeboard (mm)	200
Porosity (%)	30
Length (m)	23.755
Long. Slope (1:X)	500.00
Width (m)	2.887
Total Volume (m³)	22.923

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Connections Storm Phase: Proposed Outfall-3	Company Address: Arcadis		



Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
OF-3-5.016	6.273	Pipe	225.000		0.6	225	67.812	66.138
OF-3-5.018	7.829	Pipe	64.171		0.6	225	67.959	66.072
OF-3-1.014	5.987	Pipe	200.000		0.6	150	67.819	66.076
OF-3-1.015	10.434	Pipe	42.936		0.6	150	67.930	66.046
OF-3-1.020	25.157	Pipe	419.282		0.6	450	66.019	64.980
OF-3-1.018	55.241	Pipe	180.000		0.6	450	66.621	65.338
OF-3-1.019	11.744	Pipe	229.191		0.6	450	66.040	65.031
OF-3-1.000	5.913	Pipe	71.245		0.6	150	68.077	66.958
OF-3-5.000	2.865	Pipe	95.514		0.6	150	68.059	66.890
OF-3-1.001	2.321	Pipe	150.000		0.6	150	68.050	66.780
OF-3-5.001	2.978	Pipe	150.000		0.6	150	68.034	66.785
OF-3-1.008	3.354	Pipe	239.574		0.6	150	67.668	66.369
OF-3-1.009	2.549	Pipe	150.000		0.6	150	67.532	66.330
OF-3-1.010	2.568	Pipe	150.000		0.6	150	67.650	66.313
OF-3-5.012	2.952	Pipe	150.000		0.6	150	67.652	66.352
OF-3-1.011	3.301	Pipe	103.135		0.6	150	67.470	66.200
OF-3-5.013	3.090	Pipe	150.000		0.6	150	67.510	66.250
OF-3-1.012	2.698	Pipe	150.000		0.6	150	67.707	66.168
OF-3-5.014	2.764	Pipe	150.000		0.6	150	67.711	66.229
OF-3-5.015	3.282	Pipe	150.000		0.6	150	67.383	66.160
OF-3-1.013	3.577	Pipe	150.000		0.6	150	67.323	66.100
OF-3-6.002	16.119	Pipe	150.000		0.6	150	68.161	66.767
OF-3-1.002	24.496	Pipe	200.000		0.6	150	67.948	66.765
OF-3-5.004	13.787	Pipe	150.000		0.6	150	67.827	66.635
OF-3-5.009	6.230	Pipe	150.000		0.6	150	67.688	66.440
OF-3-1.007	6.439	Pipe	150.000		0.6	150	67.682	66.412
OF-3-5.002	2.343	Pipe	156.178		0.6	150	67.942	66.765
OF-3-5.003	2.930	Pipe	119.432		0.6	150	67.928	66.660
OF-3-1.003	2.804	Pipe	73.802		0.6	150	67.796	66.643
OF-3-5.005	1.689	Pipe	150.000		0.6	150	67.761	66.543
OF-3-5.006	1.976	Pipe	241.770		0.6	150	67.710	66.495
OF-3-1.004	2.859	Pipe	150.000		0.6	150	67.778	66.520
OF-3-1.005	2.983	Pipe	150.000		0.6	150	67.706	66.501
OF-3-5.007	1.718	Pipe	150.000		0.6	150	67.716	66.487
OF-3-5.008	2.282	Pipe	150.000		0.6	150	67.651	66.455
OF-3-1.006	1.919	Pipe	150.000		0.6	150	67.656	66.425
OF-3-5.010	2.093	Pipe	150.000		0.6	150	67.670	66.398
OF-3-5.011	1.922	Pipe	150.000		0.6	150	67.560	66.365
OF-3-2.000	3.825	Pipe	26.376		0.6	150	68.213	66.975
OF-3-6.000	2.815	Pipe	59.884		0.6	150	68.216	67.057
OF-3-6.001	2.767	Pipe	150.000		0.6	150	68.189	66.785
OF-3-2.001	3.152	Pipe	50.000		0.6	150	68.005	66.445
OF-3-5.017	8.650	Pipe	225.000		0.6	225	67.904	66.110
OF-3-3.001	13.292	Pipe	73.847		0.6	225	67.640	66.530
OF-3-3.002	22.319	Pipe	225.000		0.6	225	67.638	66.350
OF-3-3.003	12.455	Pipe	225.000		0.6	225	67.552	66.251
OF-3-3.004	11.903	Pipe	225.000		0.6	225	67.579	66.196
OF-3-3.005	31.500	Pipe	300.000		0.6	225	67.508	66.143
OF-3-3.006	30.818	Pipe	300.000		0.6	225	67.557	66.038
OF-3-3.007	16.510	Pipe	225.000		0.6	225	67.799	65.935
OF-3-4.001	9.994	Pipe	302.863		0.6	300	67.425	66.078
OF-3-7.001	10.441	Pipe	143.031		0.6	225	68.000	66.840
OF-3-1.016	5.129	Pipe	225.000		0.6	225	68.002	65.803
OF-3-1.017	53.005	Pipe	120.000		0.6	450	67.475	65.780
OF-3-2.002	3.097	Pipe	43.014		0.6	150	68.071	66.382
OF-3-2.003	3.364	Pipe	71.569		0.6	150	67.489	66.035

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Connections Storm Phase: Proposed Outfall-3	Company Address: Arcadis		



OF-3-5.019	2.978	Pipe	33.843		0.6	225	67.916	65.950
OF-3-3.008	8.136	Pipe	225.000		0.6	225	67.526	65.862
OF-3-2.004	5.132	Pipe	225.000		0.6	225	67.952	65.826
OF-3-6.003	2.380	Pipe	68.001		0.6	150	68.071	66.660
OF-3-6.004	3.169	Pipe	11.823		0.6	150	67.799	66.305
OF-3-1.021	6.091	Pipe	304.529		0.6	450	66.000	64.920
OF-3-1.022	8.661	Pipe	83.035		0.6	300	66.000	64.900
OF-3-1.023	4.150	Pipe	150.000		0.6	225	66.000	64.796
Pipe	3.038	Pipe	433.937		0.6	450	67.633	66.637
Pipe (1)	6.793	Pipe	87.084		0.6	375	67.630	66.630
Pipe (2)	3.750	Pipe	125.014		0.6	600	68.000	66.930
Pipe (3)	9.088	Pipe	151.463		0.6	450	68.000	66.900
Pipe (4)	3.244	Pipe	249.526		0.6	600	67.453	66.113
Pipe (5)	5.623	Pipe	252.106		0.6	450	67.400	66.100

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Part Family	Lock	Min. Cover Depth (m)	Flow Restriction (L/s)	Velocity (m/s)
OF-3-5.016	67.904	66.110		All	0.000		
OF-3-5.018	67.916	65.950		All	0.000		
OF-3-1.014	67.930	66.046		All	0.000		
OF-3-1.015	68.002	65.803		All	0.000		
OF-3-1.020	66.000	64.920		All	0.000		
OF-3-1.018	66.040	65.031		All	0.000		
OF-3-1.019	66.019	64.980		All	0.000		
OF-3-1.000	68.050	66.875		All	0.000		
OF-3-5.000	68.034	66.860		All	0.000		
OF-3-1.001	67.948	66.765		All	0.000		
OF-3-5.001	67.942	66.765		All	0.000		
OF-3-1.008	67.532	66.355		All	0.000		
OF-3-1.009	67.650	66.313		All	0.000	616.50	
OF-3-1.010	67.470	66.296		All	0.000		
OF-3-5.012	67.510	66.332		All	0.000		
OF-3-1.011	67.707	66.168		All	0.000	31.24	
OF-3-5.013	67.711	66.229		All	0.000		
OF-3-1.012	67.323	66.150		All	0.000		
OF-3-5.014	67.383	66.211		All	0.000		
OF-3-5.015	67.812	66.138		All	0.000		
OF-3-1.013	67.819	66.076		All	0.000		
OF-3-6.002	68.071	66.660		All	0.000		
OF-3-1.002	67.796	66.643		All	0.000		
OF-3-5.004	67.761	66.543		All	0.000		
OF-3-5.009	67.670	66.398		All	0.000		
OF-3-1.007	67.668	66.369		All	0.000		
OF-3-5.002	67.928	66.750		All	0.000		
OF-3-5.003	67.827	66.635		All	0.000	20.08	
OF-3-1.003	67.778	66.605		All	0.000		
OF-3-5.005	67.710	66.532		All	0.000		
OF-3-5.006	67.716	66.487		All	0.000	20.08	
OF-3-1.004	67.706	66.501		All	0.000	20.13	
OF-3-1.005	67.656	66.481		All	0.000		
OF-3-5.007	67.651	66.476		All	0.000		
OF-3-5.008	67.688	66.440		All	0.000	28.74	
OF-3-1.006	67.682	66.412		All	0.000		
OF-3-5.010	67.560	66.384		All	0.000		
OF-3-5.011	67.652	66.352		All	0.000	20.02	
OF-3-2.000	68.005	66.830		All	0.000		
OF-3-6.000	68.189	67.010		All	0.000		
OF-3-6.001	68.161	66.767		All	0.000	17.90	
OF-3-2.001	68.071	66.382		All	0.000	20.08	
OF-3-5.017	67.959	66.072		All	0.000		

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Connections Storm Phase: Proposed Outfall-3		Company Address: Arcadis			

OF-3-3.001	67.638	66.350	All	0.000	4.92	
OF-3-3.002	67.552	66.251	All	0.000		
OF-3-3.003	67.579	66.196	All	0.000		
OF-3-3.004	67.508	66.143	All	0.000		
OF-3-3.005	67.557	66.038	All	0.000	13.53	
OF-3-3.006	67.799	65.935	All	0.000	25.30	
OF-3-3.007	67.526	65.862	All	0.000		
OF-3-4.001	67.799	66.045	All	0.000	32.38	
OF-3-7.001	68.161	66.767	All	0.000	13.34	
OF-3-1.016	67.475	65.780	All	0.000		
OF-3-1.017	66.621	65.338	None	0.000		
OF-3-2.002	67.489	66.310	All	0.000		
OF-3-2.003	67.952	65.988	All	0.000	20.08	
OF-3-5.019	67.526	65.862	All	0.000		
OF-3-3.008	67.952	65.826	All	0.000		
OF-3-2.004	68.002	65.803	All	0.000		
OF-3-6.003	67.799	66.625	All	0.000		
OF-3-6.004	67.916	66.037	All	0.000	20.08	
OF-3-1.021	66.000	64.900	All	0.000		
OF-3-1.022	66.000	64.796	All	0.000		
OF-3-1.023	65.900	64.768	All	0.000	56.12	
Pipe	67.630	66.630	All	0.000		
Pipe (1)	67.640	66.552	All	0.000		
Pipe (2)	68.000	66.900	All	0.000		
Pipe (3)	68.000	66.840	All	0.000		
Pipe (4)	67.400	66.100	All	0.000		
Pipe (5)	67.425	66.078	All	0.000		

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	Company Address: Arcadis			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Proposed Outfall-3	Company Address: Arcadis		



FEH: 5 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH-118	FEH: 5 years: +0 %: 15 mins: Summer	68.07 7	66.95 8	66.958	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH-143	FEH: 5 years: +0 %: 30 mins: Winter	68.05 9	66.89 0	66.892	0.002	0.0	0.002	0.000	0.0	0.002	OK
MH-119	FEH: 5 years: +0 %: 60 mins: Winter	67.94 8	66.76 5	66.827	0.063	4.3	0.071	0.000	4.3	6.922	OK
MH-144	FEH: 5 years: +0 %: 60 mins: Winter	67.94 2	66.76 5	66.828	0.063	3.3	0.071	0.000	3.3	3.749	OK
MH-120	FEH: 5 years: +0 %: 15 mins: Winter	67.79 6	66.64 3	66.703	0.061	3.8	0.068	0.000	3.3	2.647	OK
MH-145	FEH: 5 years: +0 %: 120 mins: Winter	67.82 7	66.63 5	66.740	0.105	4.9	0.119	0.000	4.7	11.436	OK
MH-147	FEH: 5 years: +0 %: 120 mins: Winter	67.71 6	66.48 7	66.659	0.173	5.0	0.195	0.000	5.0	15.365	Surcharged
MH-121	FEH: 5 years: +0 %: 60 mins: Winter	67.70 6	66.50 1	66.578	0.077	5.5	0.087	0.000	5.5	8.821	OK
MH-149	FEH: 5 years: +0 %: 120 mins: Winter	67.67 0	66.39 8	66.596	0.198	5.6	0.224	0.000	5.6	18.921	Surcharged
MH-123	FEH: 5 years: +0 %: 60 mins: Winter	67.66 8	66.36 9	66.483	0.114	6.5	0.129	0.000	6.4	10.310	OK
MH-150	FEH: 5 years: +0 %: 120 mins: Winter	67.65 2	66.35 2	66.480	0.128	6.4	0.145	0.000	6.4	22.032	OK
MH-124	FEH: 5 years: +0 %: 120 mins: Winter	67.65 0	66.31 3	66.450	0.137	6.4	0.155	0.000	6.4	18.927	OK
MH-151	FEH: 5 years: +0 %: 120 mins: Winter	67.71 1	66.22 9	66.364	0.135	8.8	0.152	0.000	8.8	29.609	OK
MH-125	FEH: 5 years: +0 %: 120 mins: Winter	67.70 7	66.16 8	66.285	0.117	7.8	0.132	0.000	7.8	24.826	OK
MH-152	FEH: 5 years: +0 %: 120 mins: Winter	67.81 2	66.13 8	66.230	0.092	10.1	0.104	0.000	10.1	33.754	OK
MH-126	FEH: 5 years: +0 %: 120 mins: Winter	67.81 9	66.07 6	66.165	0.089	8.8	0.100	0.000	8.8	28.371	OK
MH-153	FEH: 5 years: +0 %: 120 mins: Winter	67.90 4	66.11 0	66.196	0.086	10.5	0.098	0.000	10.5	36.079	OK
MH-140	FEH: 5 years: +0 %: 30 mins: Summer	67.45 3	66.11 3	66.595	0.482	424.2	0.545	0.000	423.8	677.265	OK
MH-141	FEH: 5 years: +0 %: 1440 mins: Winter	67.42 5	66.07 8	66.356	0.278	15.1	0.314	0.000	15.1	1441.263	OK
MH-154	FEH: 5 years: +0 %: 120 mins: Winter	67.95 9	66.07 2	66.140	0.069	11.0	0.077	0.000	11.1	38.671	OK
MH-155	FEH: 5 years: +0 %: 120 mins: Winter	67.91 6	65.95 0	66.069	0.119	20.9	0.134	0.000	21.1	143.847	OK
MH-127	FEH: 5 years: +0 %: 120 mins: Winter	67.93 0	66.04 6	66.105	0.059	9.2	0.067	0.000	9.2	31.010	OK
MH-128	FEH: 5 years: +0 %: 120 mins: Winter	68.00 2	65.80 3	65.982	0.178	41.7	0.202	0.000	41.8	294.401	OK
MH-131	FEH: 5 years: +0 %: 120 mins: Winter	67.95 2	65.82 6	66.026	0.201	32.2	0.227	0.000	32.2	261.325	OK
MH-157	FEH: 5 years: +0 %: 720 mins: Winter	68.07 1	66.66 0	66.843	0.183	11.6	0.207	0.000	11.6	637.441	Surcharged
MH-162	FEH: 5 years: +0 %: 120 mins: Winter	66.62 1	65.33 8	65.477	0.139	49.2	0.157	0.000	49.2	332.899	OK
MH-163	FEH: 5 years: +0 %: 480 mins: Winter	66.04 0	65.03 1	65.228	0.197	40.6	0.223	0.000	40.5	1328.527	OK
MH-164	FEH: 5 years: +0 %: 480 mins: Winter	66.01 9	64.98 0	65.216	0.237	40.5	0.268	0.000	40.3	1327.627	OK
MH-165	FEH: 5 years: +0 %: 480 mins: Winter	66.00 0	64.92 0	65.205	0.285	40.3	0.323	0.000	40.1	1326.526	OK
MH-148	FEH: 5 years: +0 %: 120 mins: Winter	67.68 8	66.44 0	66.605	0.165	5.7	0.187	0.000	5.6	18.926	Surcharged

Project: West of Ifield Phase 1A				Date: 27/11/2023							
				Designed by: D.Samuel		Checked by:		Approved By:			
Report Details: Type: Junctions Summary Storm Phase: Proposed Outfall-3				Company Address: Arcadis							
MH-122	FEH: 5 years: +0 %: 60 mins: Winter	67.68 2	66.41 2	66.498	0.086	6.5	0.097	0.000	6.5	10.257	OK
MH-146	FEH: 5 years: +0 %: 120 mins: Winter	67.76 1	66.54 3	66.731	0.188	4.7	0.213	0.000	4.4	11.486	Surcharged
MH-129	FEH: 5 years: +0 %: 15 mins: Summer	68.21 3	66.97 5	66.975	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH-156	FEH: 5 years: +0 %: 15 mins: Winter	68.21 6	67.05 7	67.072	0.015	0.1	0.017	0.000	0.0	0.019	OK
MH-40	FEH: 5 years: +0 %: 720 mins: Winter	68.16 1	66.76 7	66.920	0.153	11.6	0.173	0.000	11.6	637.565	Surcharged
MH-130	FEH: 5 years: +0 %: 120 mins: Winter	68.07 1	66.38 2	66.409	0.027	1.7	0.030	0.000	1.7	3.091	OK
MH-134	FEH: 5 years: +0 %: 30 mins: Winter	67.63 8	66.35 0	66.406	0.056	4.5	0.063	0.000	4.5	12.137	OK
MH-135	FEH: 5 years: +0 %: 1440 mins: Summer	67.55 2	66.25 1	66.352	0.101	4.5	0.114	0.000	4.5	327.509	OK
136	FEH: 5 years: +0 %: 1440 mins: Summer	67.57 9	66.19 6	66.348	0.152	4.5	0.172	0.000	4.5	327.501	OK
MH-137	FEH: 5 years: +0 %: 1440 mins: Summer	67.50 8	66.14 3	66.346	0.203	4.5	0.230	0.000	4.5	327.492	OK
MH-22	FEH: 5 years: +0 %: 1440 mins: Winter	67.79 9	65.93 5	66.080	0.145	18.0	0.164	0.000	18.0	1807.439	OK
MH-158	FEH: 5 years: +0 %: 30 mins: Winter	68.00 0	66.93 0	67.208	0.278	270.8	0.314	0.000	270.8	318.239	OK
MH-159	FEH: 5 years: +0 %: 720 mins: Winter	68.00 0	66.84 0	67.168	0.328	11.4	0.371	0.000	11.4	629.900	Surcharged
MH-142	FEH: 5 years: +0 %: 120 mins: Winter	67.52 6	65.86 2	66.065	0.204	29.5	0.231	0.000	29.3	252.253	OK
MH-132	FEH: 5 years: +0 %: 15 mins: Winter	67.63 3	66.63 7	67.001	0.364	189.7	0.412	0.000	230.6	87.324	OK
MH-133	FEH: 5 years: +0 %: 480 mins: Winter	67.64 0	66.53 0	66.904	0.374	4.6	0.423	0.000	4.5	166.120	Surcharged
138	FEH: 5 years: +0 %: 60 mins: Summer	67.55 7	66.03 8	66.142	0.104	4.5	0.118	0.000	4.5	23.117	OK
MH-161	FEH: 5 years: +0 %: 120 mins: Winter	67.47 5	65.78 0	65.900	0.120	45.3	0.136	0.000	45.2	313.550	OK
MH-166	FEH: 5 years: +0 %: 480 mins: Winter	66.00 0	64.79 6	65.187	0.392	34.4	0.443	0.000	34.4	1261.682	Surcharged
HW	FEH: 5 years: +0 %: 480 mins: Winter	65.90 0	64.76 8	64.920	0.152	34.4	0.000	0.000	34.4	1261.533	OK

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Proposed Outfall-3	Company Address: Arcadis		



FEH: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH-118	FEH: 10 years: +0 %: 15 mins: Summer	68.077	66.958	66.958	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH-143	FEH: 10 years: +0 %: 30 mins: Winter	68.059	66.890	66.898	0.008	0.1	0.009	0.000	0.0	0.010	OK
MH-119	FEH: 10 years: +0 %: 60 mins: Winter	67.948	66.765	66.841	0.077	6.3	0.087	0.000	6.1	9.403	OK
MH-144	FEH: 10 years: +0 %: 60 mins: Winter	67.942	66.765	66.873	0.108	4.7	0.123	0.000	4.6	5.338	OK
MH-120	FEH: 10 years: +0 %: 60 mins: Winter	67.796	66.643	66.766	0.124	6.1	0.140	0.000	6.0	9.133	OK
MH-145	FEH: 10 years: +0 %: 60 mins: Winter	67.827	66.635	66.814	0.179	5.8	0.202	0.000	5.7	10.965	Surcharged
MH-147	FEH: 10 years: +0 %: 120 mins: Winter	67.716	66.487	66.724	0.238	5.1	0.269	0.000	5.2	20.008	Surcharged
MH-121	FEH: 10 years: +0 %: 60 mins: Winter	67.706	66.501	66.595	0.094	7.0	0.107	0.000	7.0	12.481	OK
MH-149	FEH: 10 years: +0 %: 120 mins: Winter	67.670	66.398	66.656	0.258	5.8	0.292	0.000	5.8	24.370	Surcharged
MH-123	FEH: 10 years: +0 %: 120 mins: Winter	67.668	66.369	66.539	0.170	7.1	0.192	0.000	6.9	20.130	Surcharged
MH-150	FEH: 10 years: +0 %: 120 mins: Winter	67.652	66.352	66.528	0.176	6.8	0.199	0.000	6.9	28.373	Surcharged
MH-124	FEH: 10 years: +0 %: 120 mins: Winter	67.650	66.313	66.500	0.187	7.0	0.212	0.000	7.0	24.747	Surcharged
MH-151	FEH: 10 years: +0 %: 120 mins: Winter	67.711	66.229	66.385	0.156	9.6	0.177	0.000	9.6	38.782	Surcharged
MH-125	FEH: 10 years: +0 %: 120 mins: Winter	67.707	66.168	66.299	0.131	8.8	0.148	0.000	8.8	33.313	OK
MH-152	FEH: 10 years: +0 %: 120 mins: Winter	67.812	66.138	66.234	0.096	11.0	0.109	0.000	11.0	44.457	OK
MH-126	FEH: 10 years: +0 %: 120 mins: Winter	67.819	66.076	66.170	0.094	9.8	0.107	0.000	9.8	38.163	OK
MH-153	FEH: 10 years: +0 %: 120 mins: Winter	67.904	66.110	66.200	0.090	11.6	0.102	0.000	11.6	47.316	OK
MH-140	FEH: 10 years: +0 %: 30 mins: Winter	67.453	66.113	66.671	0.558	593.8	0.631	0.000	574.0	952.829	OK
MH-141	FEH: 10 years: +0 %: 1440 mins: Winter	67.425	66.078	66.393	0.315	18.1	0.357	0.000	18.1	1731.820	Surcharged
MH-154	FEH: 10 years: +0 %: 120 mins: Winter	67.959	66.072	66.144	0.072	12.4	0.082	0.000	12.5	50.467	OK
MH-155	FEH: 10 years: +0 %: 240 mins: Winter	67.916	65.950	66.114	0.164	22.8	0.186	0.000	22.7	329.201	OK
MH-127	FEH: 10 years: +0 %: 120 mins: Winter	67.930	66.046	66.109	0.063	10.3	0.071	0.000	10.3	41.383	OK
MH-128	FEH: 10 years: +0 %: 120 mins: Winter	68.002	65.803	65.998	0.195	47.1	0.220	0.000	47.1	366.632	OK
MH-131	FEH: 10 years: +0 %: 240 mins: Winter	67.952	65.826	66.050	0.224	37.2	0.253	0.000	37.2	688.680	OK
MH-157	FEH: 10 years: +0 %: 720 mins: Winter	68.071	66.660	66.880	0.220	12.0	0.249	0.000	12.0	722.150	Surcharged
MH-162	FEH: 10 years: +0 %: 120 mins: Winter	66.621	65.338	65.490	0.152	58.3	0.172	0.000	58.4	413.671	OK
MH-163	FEH: 10 years: +0 %: 480 mins: Winter	66.040	65.031	65.273	0.241	46.3	0.273	0.000	46.1	1554.113	OK
MH-164	FEH: 10 years: +0 %: 480 mins: Winter	66.019	64.980	65.263	0.283	46.1	0.320	0.000	45.9	1553.033	OK
MH-165	FEH: 10 years: +0 %: 480 mins: Winter	66.000	64.920	65.254	0.334	45.9	0.378	0.000	45.7	1551.719	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023				
Report Details: Type: Junctions Summary Storm Phase: Proposed Outfall-3		Designed by: D.Samuel	Checked by:	Approved By:		
		Company Address: Arcadis				

MH-148	FEH: 10 years: +0 %: 120 mins: Winter	67.68 8	66.44 0	66.666	0.226	5.9	0.255	0.000	5.8	24.376	Surcharged
MH-122	FEH: 10 years: +0 %: 60 mins: Winter	67.68 2	66.41 2	66.551	0.139	7.9	0.157	0.000	7.8	14.629	OK
MH-146	FEH: 10 years: +0 %: 60 mins: Winter	67.76 1	66.54 3	66.804	0.261	5.7	0.295	0.000	4.7	11.045	Surcharged
MH-129	FEH: 10 years: +0 %: 15 mins: Summer	68.21 3	66.97 5	66.975	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH-156	FEH: 10 years: +0 %: 15 mins: Winter	68.21 6	67.05 7	67.080	0.023	0.2	0.026	0.000	0.0	0.030	OK
MH-40	FEH: 10 years: +0 %: 720 mins: Winter	68.16 1	66.76 7	66.960	0.193	12.0	0.219	0.000	12.0	722.296	Surcharged
MH-130	FEH: 10 years: +0 %: 60 mins: Winter	68.07 1	66.38 2	66.417	0.035	2.6	0.040	0.000	2.6	2.901	OK
MH-134	FEH: 10 years: +0 %: 15 mins: Winter	67.63 8	66.35 0	66.406	0.056	4.5	0.063	0.000	4.5	5.575	OK
MH-135	FEH: 10 years: +0 %: 720 mins: Summer	67.55 2	66.25 1	66.352	0.101	4.5	0.114	0.000	4.5	263.035	OK
136	FEH: 10 years: +0 %: 720 mins: Summer	67.57 9	66.19 6	66.347	0.152	4.5	0.172	0.000	4.5	262.670	OK
MH-137	FEH: 10 years: +0 %: 720 mins: Summer	67.50 8	66.14 3	66.346	0.203	4.5	0.230	0.000	4.5	262.310	OK
MH-22	FEH: 10 years: +0 %: 240 mins: Winter	67.79 9	65.93 5	66.121	0.186	17.0	0.210	0.000	17.0	343.332	OK
MH-158	FEH: 10 years: +0 %: 30 mins: Winter	68.00 0	66.93 0	67.247	0.317	338.0	0.359	0.000	338.0	397.296	OK
MH-159	FEH: 10 years: +0 %: 720 mins: Winter	68.00 0	66.84 0	67.220	0.380	11.9	0.430	0.000	11.9	712.783	Surcharged
MH-142	FEH: 10 years: +0 %: 240 mins: Winter	67.52 6	65.86 2	66.107	0.245	35.2	0.277	0.000	35.2	672.102	Surcharged
MH-132	FEH: 10 years: +0 %: 15 mins: Winter	67.63 3	66.63 7	67.036	0.399	237.1	0.451	0.000	273.4	109.576	OK
MH-133	FEH: 10 years: +0 %: 480 mins: Winter	67.64 0	66.53 0	66.963	0.433	4.6	0.490	0.000	4.5	170.731	Surcharged
138	FEH: 10 years: +0 %: 240 mins: Winter	67.55 7	66.03 8	66.147	0.109	4.2	0.123	0.000	4.3	83.600	OK
MH-161	FEH: 10 years: +0 %: 120 mins: Winter	67.47 5	65.78 0	65.910	0.129	52.1	0.146	0.000	52.1	390.027	OK
MH-166	FEH: 10 years: +0 %: 480 mins: Winter	66.00 0	64.79 6	65.232	0.436	39.4	0.494	0.000	39.4	1477.118	Surcharged
HW	FEH: 10 years: +0 %: 480 mins: Winter	65.90 0	64.76 8	64.938	0.169	39.4	0.000	0.000	39.4	1476.953	OK

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Proposed Outfall-3	Company Address: Arcadis		



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH-118	FEH: 30 years: +0 %: 15 mins: Summer	68.07 7	66.95 8	66.958	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH-143	FEH: 30 years: +0 %: 60 mins: Winter	68.05 9	66.89 0	66.972	0.082	0.2	0.092	0.000	0.1	0.109	OK
MH-119	FEH: 30 years: +0 %: 60 mins: Winter	67.94 8	66.76 5	66.903	0.139	8.7	0.157	0.000	8.4	13.364	OK
MH-144	FEH: 30 years: +0 %: 60 mins: Winter	67.94 2	66.76 5	66.970	0.205	4.9	0.232	0.000	4.6	7.914	Surcharged
MH-120	FEH: 30 years: +0 %: 60 mins: Winter	67.79 6	66.64 3	66.871	0.228	8.4	0.258	0.000	8.0	13.099	Surcharged
MH-145	FEH: 30 years: +0 %: 60 mins: Winter	67.82 7	66.63 5	66.923	0.288	5.2	0.326	0.000	4.7	16.161	Surcharged
MH-147	FEH: 30 years: +0 %: 60 mins: Winter	67.71 6	66.48 7	66.837	0.350	5.7	0.396	0.000	5.8	21.617	Surcharged
MH-121	FEH: 30 years: +0 %: 60 mins: Winter	67.70 6	66.50 1	66.678	0.177	7.7	0.200	0.000	7.6	18.371	Surcharged
MH-149	FEH: 30 years: +0 %: 60 mins: Winter	67.67 0	66.39 8	66.761	0.363	6.2	0.410	0.000	6.3	26.035	Surcharged
MH-123	FEH: 30 years: +0 %: 120 mins: Winter	67.66 8	66.36 9	66.620	0.251	7.5	0.284	0.000	7.5	27.733	Surcharged
MH-150	FEH: 30 years: +0 %: 60 mins: Winter	67.65 2	66.35 2	66.615	0.263	7.6	0.298	0.000	7.7	30.523	Surcharged
MH-124	FEH: 30 years: +0 %: 120 mins: Winter	67.65 0	66.31 3	66.573	0.260	7.8	0.294	0.000	7.8	33.944	Surcharged
MH-151	FEH: 30 years: +0 %: 60 mins: Winter	67.71 1	66.22 9	66.427	0.198	11.0	0.224	0.000	11.1	41.348	Surcharged
MH-125	FEH: 30 years: +0 %: 120 mins: Winter	67.70 7	66.16 8	66.324	0.156	9.8	0.177	0.000	9.8	46.740	Surcharged
MH-152	FEH: 30 years: +0 %: 120 mins: Winter	67.81 2	66.13 8	66.246	0.108	12.7	0.123	0.000	12.7	61.507	OK
MH-126	FEH: 30 years: +0 %: 120 mins: Winter	67.81 9	66.07 6	66.178	0.102	11.0	0.115	0.000	11.0	53.754	OK
MH-153	FEH: 30 years: +0 %: 120 mins: Winter	67.90 4	66.11 0	66.217	0.107	13.4	0.122	0.000	13.4	65.182	OK
MH-140	FEH: 30 years: +0 %: 30 mins: Winter	67.45 3	66.11 3	66.709	0.596	783.3	0.674	0.000	890.6	1255.533	OK
MH-141	FEH: 30 years: +0 %: 1440 mins: Winter	67.42 5	66.07 8	66.461	0.383	22.4	0.433	0.000	22.4	2233.162	Surcharged
MH-154	FEH: 30 years: +0 %: 240 mins: Winter	67.95 9	66.07 2	66.181	0.109	12.7	0.123	0.000	12.6	86.288	OK
MH-155	FEH: 30 years: +0 %: 240 mins: Winter	67.91 6	65.95 0	66.173	0.223	25.1	0.253	0.000	25.1	373.038	OK
MH-127	FEH: 30 years: +0 %: 120 mins: Winter	67.93 0	66.04 6	66.115	0.069	11.8	0.078	0.000	11.8	57.904	OK
MH-128	FEH: 30 years: +0 %: 120 mins: Winter	68.00 2	65.80 3	66.032	0.229	54.6	0.259	0.000	54.6	465.668	Surcharged
MH-131	FEH: 30 years: +0 %: 120 mins: Winter	67.95 2	65.82 6	66.092	0.266	42.5	0.301	0.000	42.5	404.453	Surcharged
MH-157	FEH: 30 years: +0 %: 720 mins: Winter	68.07 1	66.66 0	66.935	0.275	12.6	0.311	0.000	12.6	830.258	Surcharged
MH-162	FEH: 30 years: +0 %: 15 mins: Winter	66.62 1	65.33 8	65.512	0.174	78.4	0.196	0.000	71.7	64.416	OK
MH-163	FEH: 30 years: +0 %: 480 mins: Winter	66.04 0	65.03 1	65.358	0.327	56.2	0.370	0.000	55.9	1890.925	OK
MH-164	FEH: 30 years: +0 %: 480 mins: Winter	66.01 9	64.98 0	65.352	0.372	55.9	0.421	0.000	55.5	1889.305	OK
MH-165	FEH: 30 years: +0 %: 480 mins: Winter	66.00 0	64.92 0	65.345	0.425	55.5	0.480	0.000	55.3	1887.514	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Proposed Outfall-3		Company Address: Arcadis			

MH-148	FEH: 30 years: +0 %: 60 mins: Winter	67.68 8	66.44 0	66.771	0.332	6.3	0.375	0.000	6.2	26.053	Surcharged
MH-122	FEH: 30 years: +0 %: 60 mins: Winter	67.68 2	66.41 2	66.637	0.225	8.4	0.254	0.000	8.3	21.652	Surcharged
MH-146	FEH: 30 years: +0 %: 60 mins: Winter	67.76 1	66.54 3	66.914	0.371	4.7	0.420	0.000	4.6	16.243	Surcharged
MH-129	FEH: 30 years: +0 %: 15 mins: Summer	68.21 3	66.97 5	66.975	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH-156	FEH: 30 years: +0 %: 15 mins: Winter	68.21 6	67.05 7	67.091	0.034	0.2	0.039	0.000	0.0	0.044	OK
MH-40	FEH: 30 years: +0 %: 720 mins: Winter	68.16 1	66.76 7	67.026	0.259	12.5	0.293	0.000	12.6	830.441	Surcharged
MH-130	FEH: 30 years: +0 %: 30 mins: Winter	68.07 1	66.38 2	66.434	0.052	5.0	0.059	0.000	5.1	3.102	OK
MH-134	FEH: 30 years: +0 %: 30 mins: Summer	67.63 8	66.35 0	66.406	0.056	4.5	0.063	0.000	4.5	9.058	OK
MH-135	FEH: 30 years: +0 %: 960 mins: Summer	67.55 2	66.25 1	66.352	0.101	4.5	0.114	0.000	4.5	361.305	OK
136	FEH: 30 years: +0 %: 960 mins: Summer	67.57 9	66.19 6	66.347	0.152	4.5	0.172	0.000	4.5	360.905	OK
MH-137	FEH: 30 years: +0 %: 1440 mins: Winter	67.50 8	66.14 3	66.346	0.203	4.5	0.230	0.000	4.5	523.218	OK
MH-22	FEH: 30 years: +0 %: 240 mins: Winter	67.79 9	65.93 5	66.184	0.248	22.5	0.281	0.000	22.7	444.109	Surcharged
MH-158	FEH: 30 years: +0 %: 720 mins: Winter	68.00 0	66.93 0	67.311	0.381	73.2	0.431	0.000	73.1	1252.735	OK
MH-159	FEH: 30 years: +0 %: 720 mins: Winter	68.00 0	66.84 0	67.310	0.470	12.4	0.532	0.000	12.4	817.914	Surcharged
MH-142	FEH: 30 years: +0 %: 240 mins: Winter	67.52 6	65.86 2	66.159	0.297	41.4	0.336	0.000	41.4	816.465	Surcharged
MH-132	FEH: 30 years: +0 %: 15 mins: Summer	67.63 3	66.63 7	67.092	0.455	293.8	0.515	0.000	327.8	127.613	Surcharged
MH-133	FEH: 30 years: +0 %: 480 mins: Winter	67.64 0	66.53 0	67.060	0.530	4.6	0.599	0.000	4.5	188.156	Surcharged
138	FEH: 30 years: +0 %: 240 mins: Winter	67.55 7	66.03 8	66.213	0.175	4.2	0.198	0.000	4.2	91.678	OK
MH-161	FEH: 30 years: +0 %: 120 mins: Winter	67.47 5	65.78 0	65.921	0.141	60.9	0.159	0.000	61.0	495.747	OK
MH-166	FEH: 30 years: +0 %: 480 mins: Winter	66.00 0	64.79 6	65.317	0.521	45.2	0.590	0.000	45.2	1789.361	Surcharged
HW	FEH: 30 years: +0 %: 240 mins: Winter	65.90 0	64.76 8	64.993	0.225	44.3	0.000	0.000	44.3	879.766	OK

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Proposed Outfall-3	Company Address: Arcadis		





FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH-118	FEH: 100 years: +40 %: 60 mins: Winter	68.077	66.958	67.210	0.252	0.6	0.285	0.000	0.2	0.336	Surcharged
MH-143	FEH: 100 years: +40 %: 60 mins: Winter	68.059	66.890	67.343	0.453	0.6	0.513	0.000	0.2	0.492	Surcharged
MH-119	FEH: 100 years: +40 %: 60 mins: Winter	67.948	66.765	67.203	0.438	8.7	0.495	0.000	8.2	25.829	Surcharged
MH-144	FEH: 100 years: +40 %: 60 mins: Winter	67.942	66.765	67.342	0.577	5.9	0.652	0.000	5.5	13.728	Surcharged
MH-120	FEH: 100 years: +40 %: 60 mins: Winter	67.796	66.643	67.165	0.523	8.2	0.591	0.000	7.6	25.557	Surcharged
MH-145	FEH: 100 years: +40 %: 60 mins: Winter	67.827	66.635	67.293	0.658	5.5	0.745	0.000	5.2	25.707	Surcharged
MH-147	FEH: 100 years: +40 %: 60 mins: Winter	67.716	66.487	67.205	0.718	6.5	0.812	0.000	6.7	32.271	Surcharged
MH-121	FEH: 100 years: +40 %: 120 mins: Winter	67.706	66.501	66.950	0.449	7.3	0.508	0.000	7.2	45.126	Surcharged
MH-149	FEH: 100 years: +40 %: 60 mins: Winter	67.670	66.398	67.121	0.723	7.0	0.818	0.000	7.2	39.197	Surcharged
MH-123	FEH: 100 years: +40 %: 120 mins: Winter	67.668	66.369	66.905	0.536	8.1	0.606	0.000	7.9	53.696	Surcharged
MH-150	FEH: 100 years: +40 %: 60 mins: Winter	67.652	66.352	66.930	0.578	9.0	0.653	0.000	9.2	44.719	Surcharged
MH-124	FEH: 100 years: +40 %: 120 mins: Winter	67.650	66.313	66.851	0.538	10.8	0.608	0.000	10.7	72.622	Surcharged
MH-151	FEH: 100 years: +40 %: 120 mins: Winter	67.711	66.229	66.624	0.395	13.0	0.447	0.000	13.0	102.390	Surcharged
MH-125	FEH: 100 years: +40 %: 120 mins: Winter	67.707	66.168	66.463	0.295	12.3	0.334	0.000	12.3	99.508	Surcharged
MH-152	FEH: 100 years: +40 %: 240 mins: Winter	67.812	66.138	66.393	0.255	13.4	0.288	0.000	13.3	145.226	Surcharged
MH-126	FEH: 100 years: +40 %: 120 mins: Winter	67.819	66.076	66.280	0.204	13.3	0.231	0.000	13.3	113.808	Surcharged
MH-153	FEH: 100 years: +40 %: 240 mins: Winter	67.904	66.110	66.387	0.277	14.4	0.313	0.000	14.2	152.836	Surcharged
MH-140	FEH: 100 years: +40 %: 60 mins: Winter	67.453	66.113	67.033	0.920	1378.3	1.040	0.000	1378.1	2861.503	Surcharged
MH-141	FEH: 100 years: +40 %: 1440 mins: Winter	67.425	66.078	66.801	0.723	54.1	0.818	0.000	29.5	3371.724	Surcharged
MH-154	FEH: 100 years: +40 %: 360 mins: Winter	67.959	66.072	66.378	0.307	14.5	0.347	0.000	14.3	179.189	Surcharged

Project: West of Ifield Phase 1A				Date: 27/11/2023						
				Designed by: D.Samuel	Checked by:	Approved By:				
Report Details: Type: Junctions Summary Storm Phase: Proposed Outfall-3				Company Address: Arcadis						

MH-155	FEH: 100 years: +40 %: 360 mins: Winter	67.91 6	65.95 0	66.373	0.423	28.3	0.478	0.000	28.2	608.185	Surcharged
MH-127	FEH: 100 years: +40 %: 120 mins: Winter	67.93 0	66.04 6	66.235	0.189	14.4	0.214	0.000	14.4	121.070	Surcharged
MH-128	FEH: 100 years: +40 %: 120 mins: Winter	68.00 2	65.80 3	66.157	0.354	66.0	0.400	0.000	65.9	682.038	Surcharged
MH-131	FEH: 100 years: +40 %: 120 mins: Winter	67.95 2	65.82 6	66.248	0.422	51.6	0.477	0.000	51.6	554.677	Surcharged
MH-157	FEH: 100 years: +40 %: 360 mins: Winter	68.07 1	66.66 0	67.150	0.490	13.4	0.554	0.000	13.4	397.941	Surcharged
MH-162	FEH: 100 years: +40 %: 960 mins: Winter	66.62 1	65.33 8	65.787	0.448	69.2	0.507	0.000	68.6	4466.449	OK
MH-163	FEH: 100 years: +40 %: 960 mins: Winter	66.04 0	65.03 1	65.768	0.737	69.5	0.833	0.000	69.3	4488.939	Flood Risk
MH-164	FEH: 100 years: +40 %: 960 mins: Winter	66.01 9	64.98 0	65.763	0.783	69.3	0.886	0.000	69.2	4486.407	Flood Risk
MH-165	FEH: 100 years: +40 %: 960 mins: Winter	66.00 0	64.92 0	65.755	0.835	69.2	0.945	0.000	69.2	4483.847	Flood Risk
MH-148	FEH: 100 years: +40 %: 60 mins: Winter	67.68 8	66.44 0	67.132	0.693	6.9	0.783	0.000	7.0	39.598	Surcharged
MH-122	FEH: 100 years: +40 %: 120 mins: Winter	67.68 2	66.41 2	66.920	0.508	8.2	0.574	0.000	8.1	53.654	Surcharged
MH-146	FEH: 100 years: +40 %: 60 mins: Winter	67.76 1	66.54 3	67.285	0.742	5.2	0.840	0.000	5.3	25.285	Surcharged
MH-129	FEH: 100 years: +40 %: 15 mins: Summer	68.21 3	66.97 5	66.975	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH-156	FEH: 100 years: +40 %: 360 mins: Winter	68.21 6	67.05 7	67.255	0.198	0.1	0.223	0.000	0.2	0.249	Surcharged
MH-40	FEH: 100 years: +40 %: 360 mins: Winter	68.16 1	66.76 7	67.251	0.485	13.4	0.548	0.000	13.4	398.139	Surcharged
MH-130	FEH: 100 years: +40 %: 60 mins: Winter	68.07 1	66.38 2	66.642	0.260	5.9	0.294	0.000	6.0	11.834	Surcharged
MH-134	FEH: 100 years: +40 %: 480 mins: Winter	67.63 8	66.35 0	66.623	0.273	4.9	0.308	0.000	5.2	242.353	Surcharged
MH-135	FEH: 100 years: +40 %: 480 mins: Winter	67.55 2	66.25 1	66.620	0.369	5.2	0.418	0.000	5.3	241.563	Surcharged
136	FEH: 100 years: +40 %: 480 mins: Winter	67.57 9	66.19 6	66.618	0.423	5.3	0.478	0.000	5.4	240.811	Surcharged
MH-137	FEH: 100 years: +40 %: 480 mins: Winter	67.50 8	66.14 3	66.617	0.474	5.4	0.536	0.000	5.5	240.229	Surcharged
MH-22	FEH: 100 years: +40 %: 480 mins: Winter	67.79 9	65.93 5	66.403	0.468	34.6	0.529	0.000	34.6	1289.865	Surcharged
MH-158	FEH: 100 years: +40 %: 1440 mins: Winter	68.00 0	66.93 0	67.760	0.830	77.7	0.939	0.000	77.6	2652.448	Flood Risk
MH-159	FEH: 100 years: +40 %: 1440 mins: Winter	68.00 0	66.84 0	67.760	0.920	12.4	1.040	0.000	12.4	1569.643	Flood Risk

Project: West of Ifield Phase 1A		Date: 27/11/2023				
Report Details: Type: Junctions Summary Storm Phase: Proposed Outfall-3		Designed by: D.Samuel	Checked by:	Approved By:		
		Company Address: Arcadis				

MH-142	FEH: 100 years: +40 %: 360 mins: Winter	67.52 6	65.86 2	66.354	0.492	54.1	0.556	0.000	54.1	1643.498	Surcharged
MH-132	FEH: 100 years: +40 %: 960 mins: Winter	67.63 3	66.63 7	67.481	0.844	37.8	0.955	0.000	37.7	859.638	Flood Risk
MH-133	FEH: 100 years: +40 %: 960 mins: Winter	67.64 0	66.53 0	67.481	0.951	4.9	1.075	0.000	4.9	482.128	Flood Risk
138	FEH: 100 years: +40 %: 480 mins: Winter	67.55 7	66.03 8	66.455	0.417	5.7	0.472	0.000	6.0	238.798	Surcharged
MH-161	FEH: 100 years: +40 %: 30 mins: Winter	67.47 5	65.78 0	65.955	0.175	89.9	0.198	0.000	89.6	191.426	OK
MH-166	FEH: 100 years: +40 %: 960 mins: Winter	66.00 0	64.79 6	65.725	0.929	51.4	1.051	0.000	51.4	4363.694	Flood Risk
HW	FEH: 100 years: +40 %: 60 mins: Summer	65.90 0	64.76 8	64.993	0.225	46.8	0.000	0.000	46.8	214.655	OK

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details:	Company Address:			
Type: Stormwater Controls Summary Storm Phase: Proposed Outfall-3	Arcadis			



**FEH: 5 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max.
Avg. Depth**

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Proposed Outfall-3		Company Address: Arcadis			

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (65)	FEH: 5 years: +0 %: 60 mins: Winter	66.362	66.131	0.173	0.221	4.4	3.596	0.000	0.000	3.8	5.894	83.395	OK
Infiltration Trench (66)	FEH: 5 years: +0 %: 720 mins: Winter	66.823	66.683	0.324	0.503	12.0	11.069	0.000	0.000	11.9	650.798	62.866	OK
Infiltration Trench (67)	FEH: 5 years: +0 %: 120 mins: Winter	66.865	66.503	0.159	0.183	2.3	4.426	0.000	0.000	1.7	3.107	85.568	OK
Infiltration Trench (68)	FEH: 5 years: +0 %: 120 mins: Winter	67.048	67.031	0.159	0.371	2.3	3.886	0.000	0.000	1.8	3.426	76.640	OK
Infiltration Trench (17)	FEH: 5 years: +0 %: 60 mins: Winter	66.890	66.842	0.156	0.182	4.0	3.290	0.000	0.000	3.3	3.751	84.743	OK
Infiltration Trench (19)	FEH: 5 years: +0 %: 60 mins: Winter	66.902	66.835	0.151	0.179	4.1	3.800	0.000	0.000	2.5	2.950	85.175	OK
Infiltration Trench (20)	FEH: 5 years: +0 %: 60 mins: Winter	66.820	66.797	0.192	0.262	7.1	4.384	0.000	0.000	5.5	7.713	79.721	OK
Infiltration Trench (22)	FEH: 5 years: +0 %: 120 mins: Winter	66.729	66.720	0.319	0.350	5.9	2.847	0.000	0.000	5.0	15.328	70.071	OK
Infiltration Trench (23)	FEH: 5 years: +0 %: 60 mins: Winter	66.695	66.667	0.217	0.267	6.3	4.497	0.000	0.000	5.5	8.819	78.573	OK
Infiltration Trench (52)	FEH: 5 years: +0 %: 60 mins: Winter	66.560	66.514	0.204	0.214	6.6	2.010	0.000	0.000	6.5	10.294	81.376	OK
Infiltration Trench (53)	FEH: 5 years: +0 %: 120 mins: Winter	66.656	66.645	0.305	0.316	5.7	0.125	0.000	0.000	5.7	18.972	80.168	OK
Infiltration Trench (54)	FEH: 5 years: +0 %: 120 mins: Winter	66.591	66.576	0.332	0.341	6.5	3.553	0.000	0.000	6.4	21.803	69.784	OK
Infiltration Trench (55)	FEH: 5 years: +0 %: 120 mins: Winter	66.475	66.456	0.243	0.253	7.2	3.097	0.000	0.000	6.9	18.474	77.783	OK
Infiltration Trench (56)	FEH: 5 years: +0 %: 120 mins: Winter	66.474	66.377	0.264	0.252	9.2	9.769	0.000	0.000	8.8	29.695	76.740	OK
Infiltration Trench (57)	FEH: 5 years: +0 %: 120 mins: Winter	66.444	66.355	0.274	0.275	9.4	11.049	0.000	0.000	7.8	25.227	75.352	OK
Infiltration Trench (58)	FEH: 5 years: +0 %: 120 mins: Winter	66.352	66.264	0.269	0.229	10.1	5.358	0.000	0.000	10.1	33.907	77.396	OK
Infiltration Trench (59)	FEH: 5 years: +0 %: 120 mins: Winter	66.273	66.197	0.251	0.222	8.9	4.924	0.000	0.000	8.8	28.441	78.520	OK
P01	FEH: 5 years: +0 %: 480 mins: Winter	65.202	65.202	0.302	0.302	41.7	137.833	0.000	0.000	34.4	1262.324	67.967	OK
Future Plot Storage-3	FEH: 5 years: +0 %: 480 mins: Winter	66.904	66.904	0.274	0.274	24.8	206.974	0.000	0.000	4.6	166.640	72.591	OK
Future Plot Storage-1	FEH: 5 years: +0 %: 720 mins: Winter	67.169	67.169	0.269	0.269	50.6	611.176	0.000	0.000	11.4	630.305	75.554	OK
Future Plot Storage-2	FEH: 5 years: +0 %: 1440 mins: Winter	66.357	66.357	0.257	0.257	71.5	1858.198	0.000	0.000	15.1	1441.579	80.244	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Proposed Outfall-3		Company Address: Arcadis			



FEH: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (65)	FEH: 10 years: +0 %: 30 mins: Winter	66.377	66.164	0.188	0.254	7.3	3.974	0.000	0.000	5.5	5.604	81.649	OK
Infiltration Trench (66)	FEH: 10 years: +0 %: 720 mins: Winter	66.858	66.708	0.360	0.528	12.5	11.869	0.000	0.000	12.3	738.139	60.183	OK
Infiltration Trench (67)	FEH: 10 years: +0 %: 60 mins: Winter	66.877	66.519	0.171	0.199	4.1	4.704	0.000	0.000	2.5	2.921	84.663	OK
Infiltration Trench (68)	FEH: 10 years: +0 %: 60 mins: Winter	67.060	67.051	0.171	0.391	4.2	4.165	0.000	0.000	2.9	3.255	74.962	OK
Infiltration Trench (17)	FEH: 10 years: +0 %: 30 mins: Winter	66.898	66.865	0.164	0.205	6.7	3.555	0.000	0.000	4.9	3.661	83.512	OK
Infiltration Trench (19)	FEH: 10 years: +0 %: 60 mins: Winter	66.907	66.848	0.157	0.192	4.6	3.987	0.000	0.000	3.8	4.399	84.448	OK
Infiltration Trench (20)	FEH: 10 years: +0 %: 60 mins: Winter	66.872	66.863	0.244	0.328	9.9	5.561	0.000	0.000	5.8	10.967	74.276	OK
Infiltration Trench (22)	FEH: 10 years: +0 %: 60 mins: Winter	66.801	66.790	0.391	0.420	7.8	3.452	0.000	0.000	5.3	14.762	63.709	OK
Infiltration Trench (23)	FEH: 10 years: +0 %: 60 mins: Winter	66.762	66.726	0.284	0.326	9.4	5.687	0.000	0.000	7.0	12.469	72.900	OK
Infiltration Trench (52)	FEH: 10 years: +0 %: 60 mins: Winter	66.578	66.559	0.222	0.259	8.3	2.325	0.000	0.000	7.9	14.666	78.461	OK
Infiltration Trench (53)	FEH: 10 years: +0 %: 120 mins: Winter	66.721	66.709	0.370	0.380	6.1	0.151	0.000	0.000	6.0	24.419	76.071	OK
Infiltration Trench (54)	FEH: 10 years: +0 %: 120 mins: Winter	66.651	66.634	0.391	0.399	7.2	4.170	0.000	0.000	6.7	28.149	64.537	OK
Infiltration Trench (55)	FEH: 10 years: +0 %: 120 mins: Winter	66.531	66.509	0.299	0.305	8.6	3.786	0.000	0.000	7.7	24.255	72.842	OK
Infiltration Trench (56)	FEH: 10 years: +0 %: 120 mins: Winter	66.520	66.401	0.311	0.276	10.6	11.081	0.000	0.000	9.6	38.837	73.614	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023				
		Designed by: D.Samuel	Checked by:	Approved By:		
Report Details: Type: Stormwater Controls Summary Storm Phase: Proposed Outfall-3		Company Address: Arcadis				

Infiltration Trench (57)	FEH: 10 years: +0 %: 120 mins: Winter	66.493	66.384	0.323	0.304	10.6	12.556	0.000	0.000	8.8	33.676	71.990	OK
Infiltration Trench (58)	FEH: 10 years: +0 %: 120 mins: Winter	66.371	66.271	0.288	0.236	11.0	5.601	0.000	0.000	11.0	44.639	76.369	OK
Infiltration Trench (59)	FEH: 10 years: +0 %: 120 mins: Winter	66.286	66.204	0.264	0.229	9.8	5.130	0.000	0.000	9.8	38.274	77.621	OK
P01	FEH: 10 years: +0 %: 480 mins: Winter	65.251	65.251	0.351	0.351	47.3	162.811	0.000	0.000	39.4	1477.807	62.162	OK
Future Plot Storage-3	FEH: 10 years: +0 %: 480 mins: Winter	66.963	66.963	0.333	0.333	29.1	251.375	0.000	0.000	4.6	171.387	66.711	OK
Future Plot Storage-1	FEH: 10 years: +0 %: 720 mins: Winter	67.220	67.220	0.320	0.320	59.1	727.613	0.000	0.000	11.9	713.272	70.896	OK
Future Plot Storage-2	FEH: 10 years: +0 %: 1440 mins: Winter	66.394	66.394	0.294	0.294	82.9	2129.724	0.000	0.000	18.1	1732.168	77.357	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Proposed Outfall-3		Company Address: Arcadis			



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (65)	FEH: 30 years: +0 %: 60 mins: Winter	66.390	66.271	0.201	0.361	9.9	5.107	0.000	0.000	8.4	13.892	76.416	OK
Infiltration Trench (66)	FEH: 30 years: +0 %: 480 mins: Winter	66.911	66.746	0.413	0.566	13.4	13.085	0.000	0.000	12.9	581.936	56.103	OK
Infiltration Trench (67)	FEH: 30 years: +0 %: 60 mins: Winter	66.884	66.549	0.179	0.229	5.5	5.046	0.000	0.000	4.9	5.032	83.549	OK
Infiltration Trench (68)	FEH: 30 years: +0 %: 60 mins: Winter	67.084	67.074	0.195	0.414	5.5	4.542	0.000	0.000	4.3	5.413	72.698	OK
Infiltration Trench (17)	FEH: 30 years: +0 %: 60 mins: Winter	66.972	66.971	0.238	0.311	6.7	5.309	0.000	0.000	4.9	8.026	75.379	OK
Infiltration Trench (19)	FEH: 30 years: +0 %: 30 mins: Winter	66.919	66.906	0.169	0.250	9.2	4.817	0.000	0.000	4.9	4.665	81.209	OK
Infiltration Trench (20)	FEH: 30 years: +0 %: 60 mins: Winter	66.970	66.962	0.341	0.427	11.6	7.457	0.000	0.000	5.7	16.171	65.508	OK
Infiltration Trench (22)	FEH: 30 years: +0 %: 60 mins: Winter	66.912	66.901	0.502	0.531	8.2	4.398	0.000	0.000	5.5	21.522	53.759	OK
Infiltration Trench (23)	FEH: 30 years: +0 %: 60 mins: Winter	66.866	66.821	0.388	0.421	12.9	7.619	0.000	0.000	7.8	18.339	63.694	OK
Infiltration Trench (52)	FEH: 30 years: +0 %: 60 mins: Winter	66.669	66.646	0.313	0.346	10.1	3.189	0.000	0.000	8.4	21.688	70.457	OK
Infiltration Trench (53)	FEH: 30 years: +0 %: 60 mins: Winter	66.833	66.820	0.483	0.491	6.6	0.196	0.000	0.000	6.5	26.231	68.921	OK
Infiltration Trench (54)	FEH: 30 years: +0 %: 60 mins: Winter	66.755	66.735	0.495	0.500	8.6	5.254	0.000	0.000	7.4	30.068	55.323	OK
Infiltration Trench (55)	FEH: 30 years: +0 %: 120 mins: Winter	66.610	66.583	0.379	0.380	9.6	4.736	0.000	0.000	8.3	33.424	66.021	OK
Infiltration Trench (56)	FEH: 30 years: +0 %: 60 mins: Winter	66.606	66.446	0.396	0.321	15.3	13.468	0.000	0.000	11.0	41.273	67.930	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Proposed Outfall-3		Company Address: Arcadis			

Infiltration Trench (57)	FEH: 30 years: +0 %: 120 mins: Winter	66.563	66.427	0.393	0.347	12.1	14.859	0.000	0.000	9.8	47.056	66.853	OK
Infiltration Trench (58)	FEH: 30 years: +0 %: 60 mins: Winter	66.409	66.284	0.326	0.249	13.3	6.139	0.000	0.000	12.8	46.730	74.100	OK
Infiltration Trench (59)	FEH: 30 years: +0 %: 120 mins: Winter	66.310	66.214	0.288	0.239	11.0	5.437	0.000	0.000	11.0	53.912	76.280	OK
P01	FEH: 30 years: +0 %: 480 mins: Winter	65.341	65.341	0.441	0.441	57.3	211.368	0.000	0.000	45.2	1790.125	50.877	OK
Future Plot Storage-3	FEH: 30 years: +0 %: 480 mins: Winter	67.060	67.060	0.430	0.430	36.1	324.504	0.000	0.000	4.6	188.980	57.027	OK
Future Plot Storage-1	FEH: 30 years: +0 %: 720 mins: Winter	67.311	67.311	0.411	0.411	73.1	933.628	0.000	0.000	12.4	818.593	62.656	OK
Future Plot Storage-2	FEH: 30 years: +0 %: 1440 mins: Winter	66.462	66.462	0.362	0.362	102.8	2617.823	0.000	0.000	22.4	2233.568	72.168	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Proposed Outfall-3		Company Address: Arcadis			



**FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By:
Max. Avg. Depth**

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (65)	FEH: 100 years: +40 %: 60 mins: Winter	66.636	66.545	0.447	0.635	18.6	10.517	0.000	0.000	11.5	29.361	51.436	OK
Infiltration Trench (66)	FEH: 100 years: +40 %: 360 mins: Winter	67.123	66.909	0.625	0.729	15.6	18.084	0.000	0.000	14.9	429.533	39.334	OK
Infiltration Trench (67)	FEH: 100 years: +40 %: 30 mins: Winter	66.919	66.743	0.213	0.423	12.9	7.537	0.000	0.000	6.8	8.347	75.425	OK
Infiltration Trench (68)	FEH: 100 years: +40 %: 360 mins: Winter	67.255	67.254	0.366	0.594	2.8	7.155	0.000	0.000	2.9	20.832	56.987	OK
Infiltration Trench (17)	FEH: 100 years: +40 %: 60 mins: Winter	67.343	67.342	0.609	0.682	12.0	12.502	0.000	0.000	5.9	14.514	42.018	OK
Infiltration Trench (19)	FEH: 100 years: +40 %: 60 mins: Winter	67.210	67.205	0.460	0.549	10.9	11.612	0.000	0.000	4.1	14.291	54.703	OK
Infiltration Trench (20)	FEH: 100 years: +40 %: 60 mins: Winter	67.341	67.334	0.713	0.799	14.6	14.666	0.000	0.000	5.7	26.439	32.162	OK
Infiltration Trench (22)	FEH: 100 years: +40 %: 60 mins: Winter	67.284	67.273	0.874	0.903	10.1	7.563	0.000	0.000	6.4	32.893	20.484	OK
Infiltration Trench (23)	FEH: 100 years: +40 %: 60 mins: Winter	67.159	67.111	0.681	0.711	16.5	13.098	0.000	0.000	8.4	35.894	37.585	OK
Infiltration Trench (52)	FEH: 100 years: +40 %: 120 mins: Winter	66.944	66.927	0.588	0.627	10.2	5.884	0.000	0.000	8.2	53.671	45.491	OK
Infiltration Trench (53)	FEH: 100 years: +40 %: 60 mins: Winter	67.201	67.187	0.851	0.858	7.9	0.343	0.000	0.000	7.6	40.576	45.485	OK
Infiltration Trench (54)	FEH: 100 years: +40 %: 60 mins: Winter	67.114	67.089	0.855	0.854	11.7	9.020	0.000	0.000	8.8	44.708	23.291	OK
Infiltration Trench (55)	FEH: 100 years: +40 %: 120 mins: Winter	66.895	66.870	0.664	0.666	21.9	8.315	0.000	0.000	30.1	79.119	40.348	OK
Infiltration Trench (56)	FEH: 100 years: +40 %: 60 mins: Winter	66.918	66.656	0.709	0.531	23.4	23.087	0.000	0.000	13.7	63.683	45.027	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Proposed Outfall-3		Company Address: Arcadis			

Infiltration Trench (57)	FEH: 100 years: +40 %: 120 mins: Winter	66.836	66.628	0.666	0.548	15.4	24.361	0.000	0.000	12.2	99.795	45.657	OK
Infiltration Trench (58)	FEH: 100 years: +40 %: 120 mins: Winter	66.596	66.431	0.513	0.396	16.8	9.637	0.000	0.000	15.0	119.136	59.343	OK
Infiltration Trench (59)	FEH: 100 years: +40 %: 120 mins: Winter	66.441	66.312	0.418	0.337	13.9	7.768	0.000	0.000	13.3	114.025	66.114	OK
P01	FEH: 100 years: +40 %: 960 mins: Winter	65.752	65.752	0.852	0.852	71.5	465.615	0.000	0.000	51.4	4364.581	-8.212	Flood Risk
Future Plot Storage-3	FEH: 100 years: +40 %: 960 mins: Winter	67.481	67.481	0.851	0.851	37.7	642.551	0.000	0.000	4.9	483.219	14.908	OK
Future Plot Storage-1	FEH: 100 years: +40 %: 1440 mins: Winter	67.760	67.760	0.860	0.860	77.6	1954.336	0.000	0.000	12.4	1571.008	21.829	OK
Future Plot Storage-2	FEH: 100 years: +40 %: 1440 mins: Winter	66.802	66.802	0.702	0.702	185.0	5079.181	0.000	0.000	54.1	3372.327	45.999	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Proposed Outfall-3		Company Address: Arcadis			



FEH: 5 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
OF-3-5.016	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-152	MH-153	67.812	66.230	0.089	33.754	0.7	0.29	10.1	OK
OF-3-5.018	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-154	MH-155	67.959	66.140	0.091	38.671	0.8	0.17	11.1	OK
OF-3-1.014	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-126	MH-127	67.819	66.165	0.074	28.371	1.0	0.7	8.8	OK
OF-3-1.015	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-127	MH-128	67.930	66.105	0.119	31.010	0.6	0.34	9.2	OK
OF-3-1.020	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-164	MH-165	66.019	65.173	0.214	336.606	0.9	0.32	50.0	OK
OF-3-1.018	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-162	MH-163	66.621	65.477	0.157	332.899	1.0	0.2	49.2	OK
OF-3-1.019	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-163	MH-164	66.040	65.207	0.180	337.495	0.8	0.24	50.2	OK
OF-3-1.000	FEH: 5 years: +0 %: 15 mins: Summer	Pipe	MH-118	Infiltration Trench (19)	68.077	66.958	0.003	0.000	0.0	0	0.0	OK
OF-3-5.000	FEH: 5 years: +0 %: 30 mins: Winter	Pipe	MH-143	Infiltration Trench (17)	68.059	66.892	0.015	0.000	0.0	0	0.0	OK
OF-3-1.001	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (19)	MH-119	68.050	66.821	0.059	2.698	0.4	0.18	2.5	OK
OF-3-5.001	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (17)	MH-144	68.034	66.830	0.060	3.751	0.5	0.22	3.3	OK
OF-3-1.008	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	MH-123	Infiltration Trench (55)	67.668	66.483	0.116	10.245	0.5	0.56	6.4	OK
OF-3-1.009	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (55)	MH-124	67.532	66.446	0.120	11.995	0.5	0.48	6.9	OK
OF-3-1.010	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	MH-124	Infiltration Trench (57)	67.650	66.437	0.129	11.983	0.4	0.48	6.9	OK
OF-3-5.012	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-150	Infiltration Trench (56)	67.652	66.480	0.135	21.666	0.4	0.44	6.4	OK
OF-3-1.011	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (57)	MH-125	67.470	66.355	0.108	24.777	0.6	0.45	7.8	Surcharged
OF-3-5.013	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (56)	MH-151	67.510	66.384	0.131	29.399	0.6	0.61	8.8	OK
OF-3-1.012	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-125	Infiltration Trench (59)	67.707	66.285	0.121	24.766	0.5	0.54	7.8	OK
OF-3-5.014	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-151	Infiltration Trench (58)	67.711	66.364	0.138	29.386	0.5	0.61	8.8	OK

Project: West of Ifield Phase 1A				Date: 27/11/2023									
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OF-3-5.015	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	Infiltratio n Trench (58)	MH-152	67.383	66.287	0.098	33.769	0.8	0.7	10.1	OK
OF-3-1.013	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	Infiltratio n Trench (59)	MH-126	67.323	66.214	0.093	28.387	0.8	0.61	8.8	OK
OF-3-6.002	FEH: 5 years: +0 %: 720 mins: Winter	Pipe	MH-40	MH-157	68.161	66.920	0.150	637.565	0.9	0.8	11.6	Surch arged
OF-3-1.002	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	MH-119	MH-120	67.948	66.827	0.061	6.670	0.6	0.35	4.3	OK
OF-3-5.004	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	MH-145	MH-146	67.827	66.733	0.138	7.698	0.5	0.38	5.4	OK
OF-3-5.009	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	MH-148	MH-149	67.688	66.592	0.150	13.151	0.4	0.39	5.6	Surch arged
OF-3-1.007	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	MH-122	MH-123	67.682	66.498	0.100	10.257	0.5	0.45	6.5	OK
OF-3-5.002	FEH: 5 years: +0 %: 30 mins: Winter	Pipe	MH-144	Infiltratio n Trench (20)	67.942	66.827	0.065	2.413	0.5	0.23	3.3	OK
OF-3-5.003	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	Infiltratio n Trench (20)	MH-145	67.928	66.761	0.089	7.711	0.7	0.34	5.5	OK
OF-3-1.003	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	MH-120	Infiltratio n Trench (23)	67.796	66.702	0.074	6.663	0.5	0.21	4.3	OK
OF-3-5.005	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	MH-146	Infiltratio n Trench (22)	67.761	66.722	0.150	7.691	0.3	0.34	4.9	Surch arged
OF-3-5.006	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	Infiltratio n Trench (22)	MH-147	67.710	66.695	0.150	10.334	0.4	0.45	5.2	Surch arged
OF-3-1.004	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	Infiltratio n Trench (23)	MH-121	67.778	66.639	0.077	8.807	0.6	0.38	5.5	OK
OF-3-1.005	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	MH-121	Infiltratio n Trench (52)	67.706	66.578	0.078	8.797	0.6	0.38	5.5	OK
OF-3-5.007	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	MH-147	Infiltratio n Trench (53)	67.716	66.646	0.150	10.324	0.4	0.36	5.2	Surch arged
OF-3-5.008	FEH: 5 years: +0 %: 120 mins: Summer	Pipe	Infiltratio n Trench (53)	MH-148	67.651	66.625	0.147	16.232	0.6	0.39	5.7	Surch arged
OF-3-1.006	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	Infiltratio n Trench (52)	MH-122	67.656	66.508	0.087	10.270	0.7	0.45	6.5	OK
OF-3-5.010	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	MH-149	Infiltratio n Trench (54)	67.670	66.584	0.150	13.138	0.3	0.39	5.7	Surch arged
OF-3-5.011	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	Infiltratio n Trench (54)	MH-150	67.560	66.572	0.125	21.672	0.5	0.44	6.4	Surch arged
OF-3-2.000	FEH: 5 years: +0 %: 15 mins: Summer	Pipe	MH-129	Infiltratio n Trench (67)	68.213	66.975	0.028	0.000	0.0	0	0.0	OK
OF-3-6.000	FEH: 5 years: +0 %: 15 mins: Winter	Pipe	MH-156	Infiltratio n Trench (68)	68.216	67.072	0.038	0.000	0.0	0	0.0	OK
OF-3-6.001	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	Infiltratio n Trench (68)	MH-40	68.189	66.920	0.055	3.419	0.3	0.13	1.8	OK
OF-3-2.001	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	Infiltratio n Trench (67)	MH-130	68.005	66.481	0.027	3.094	0.8	0.07	1.7	OK

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OF-3-5.017	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-153	MH-154	67.904	66.196	0.077	36.079	0.9	0.31	10.5	OK
OF-3-3.001	FEH: 5 years: +0 %: 480 mins: Summer	Pipe	MH-133	MH-134	67.640	66.868	0.048	172.775	0.7	0.07	4.5	Surcharged
OF-3-3.002	FEH: 5 years: +0 %: 60 mins: Summer	Pipe	MH-134	MH-135	67.638	66.405	0.077	25.108	0.6	0.13	4.5	OK
OF-3-3.003	FEH: 5 years: +0 %: 1440 mins: Summer	Pipe	MH-135	136	67.552	66.352	0.126	327.509	0.5	0.13	4.5	OK
OF-3-3.004	FEH: 5 years: +0 %: 1440 mins: Summer	Pipe	136	MH-137	67.579	66.348	0.178	327.501	0.3	0.13	4.5	OK
OF-3-3.005	FEH: 5 years: +0 %: 1440 mins: Summer	Pipe	MH-137	138	67.508	66.346	0.081	327.482	0.4	0.15	4.5	OK
OF-3-3.006	FEH: 5 years: +0 %: 1440 mins: Summer	Pipe	138	MH-22	67.557	66.142	0.092	327.469	0.4	0.15	4.5	OK
OF-3-3.007	FEH: 5 years: +0 %: 1440 mins: Winter	Pipe	MH-22	MH-142	67.799	66.080	0.169	1807.439	0.6	0.52	18.0	OK
OF-3-4.001	FEH: 5 years: +0 %: 1440 mins: Winter	Pipe	MH-141	MH-22	67.425	66.356	0.099	1441.152	0.7	0.24	15.1	OK
OF-3-7.001	FEH: 5 years: +0 %: 720 mins: Winter	Pipe	MH-159	MH-40	68.000	67.168	0.122	629.836	0.7	0.26	11.4	Surcharged
OF-3-1.016	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-128	MH-161	68.002	65.982	0.149	294.401	1.5	1.21	41.8	OK
OF-3-1.017	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-161	MH-162	67.475	65.900	0.129	313.550	1.2	0.15	45.2	OK
OF-3-2.002	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-130	Infiltration Trench (65)	68.071	66.409	0.037	3.091	0.5	0.06	1.7	OK
OF-3-2.003	FEH: 5 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (65)	MH-131	67.489	66.092	0.045	3.235	0.9	0.18	3.8	OK
OF-3-5.019	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-155	MH-142	67.916	66.069	0.161	143.847	0.8	0.24	21.1	OK
OF-3-3.008	FEH: 5 years: +0 %: 1440 mins: Winter	Pipe	MH-142	MH-131	67.526	66.055	0.186	2880.573	0.9	0.89	30.6	OK
OF-3-2.004	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-131	MH-128	67.952	66.026	0.189	261.325	0.9	0.93	32.2	OK
OF-3-6.003	FEH: 5 years: +0 %: 720 mins: Winter	Pipe	MH-157	Infiltration Trench (66)	68.071	66.843	0.150	637.441	1.0	0.54	11.6	Surcharged
OF-3-6.004	FEH: 5 years: +0 %: 720 mins: Winter	Pipe	Infiltration Trench (66)	MH-155	67.799	66.594	0.052	650.706	2.2	0.23	11.9	Surcharged
OF-3-1.021	FEH: 5 years: +0 %: 120 mins: Winter	Pipe	MH-165	P01	66.000	65.155	0.243	335.459	1.3	0.27	49.5	OK
OF-3-1.022	FEH: 5 years: +0 %: 480 mins: Winter	Pipe	P01	MH-166	66.000	65.202	0.300	1262.324	0.5	0.28	34.4	Surcharged
OF-3-1.023	FEH: 5 years: +0 %: 480 mins: Winter	Pipe	MH-166	HW	66.000	65.187	0.165	1261.533	1.1	0.81	34.4	Surcharged
Pipe	FEH: 5 years: +0 %: 15 mins: Winter	Pipe	MH-132	Future Plot Storage-3	67.633	67.001	0.210	87.278	3.2	1.5	230.6	OK

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Pipe (1)	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	Future Plot Storage- 3	MH-133	67.630	66.807	0.216	22.634	0.3	0.02	4.7	OK
Pipe (2)	FEH: 5 years: +0 %: 30 mins: Winter	Pipe	MH-158	Future Plot Storage- 1	68.000	67.208	0.182	318.225	4.4	0.44	270.8	OK
Pipe (3)	FEH: 5 years: +0 %: 720 mins: Winter	Pipe	Future Plot Storage- 1	MH-159	68.000	67.169	0.299	630.305	0.1	0.04	11.4	OK
Pipe (4)	FEH: 5 years: +0 %: 60 mins: Winter	Pipe	MH-140	Future Plot Storage- 2	67.453	66.585	0.276	957.257	4.2	1.16	504.0	OK
Pipe (5)	FEH: 5 years: +0 %: 1440 mins: Winter	Pipe	Future Plot Storage- 2	MH-141	67.400	66.357	0.267	1441.579	0.2	0.07	15.1	OK

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Report Details: Type: Connections Summary Storm Phase: Proposed Outfall-3		Company Address: Arcadis			



FEH: 10 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
OF-3-5.016	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-152	MH-153	67.812	66.234	0.093	44.457	0.7	0.32	11.0	OK
OF-3-5.018	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-154	MH-155	67.959	66.144	0.109	50.467	0.8	0.19	12.5	OK
OF-3-1.014	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-126	MH-127	67.819	66.170	0.079	38.163	1.0	0.78	9.8	OK
OF-3-1.015	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-127	MH-128	67.930	66.109	0.129	41.383	0.6	0.38	10.3	OK
OF-3-1.020	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-164	MH-165	66.019	65.222	0.266	417.773	0.9	0.38	59.7	OK
OF-3-1.018	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-162	MH-163	66.621	65.490	0.174	413.671	1.0	0.24	58.4	OK
OF-3-1.019	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-163	MH-164	66.040	65.234	0.223	419.030	0.9	0.28	59.9	OK
OF-3-1.000	FEH: 10 years: +0 %: 15 mins: Summer	Pipe	MH-118	Infiltration Trench (19)	68.077	66.958	0.011	0.000	0.0	0	0.0	OK
OF-3-5.000	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-143	Infiltration Trench (17)	68.059	66.894	0.018	0.000	0.0	0	0.0	OK
OF-3-1.001	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (19)	MH-119	68.050	66.829	0.072	4.137	0.5	0.26	3.8	OK
OF-3-5.001	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (17)	MH-144	68.034	66.844	0.088	3.650	0.6	0.34	4.9	OK
OF-3-1.008	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	MH-123	Infiltration Trench (55)	67.668	66.506	0.139	9.785	0.5	0.69	7.9	OK
OF-3-1.009	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (55)	MH-124	67.532	66.468	0.141	11.181	0.5	0.56	8.0	OK
OF-3-1.010	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	MH-124	Infiltration Trench (57)	67.650	66.458	0.148	11.140	0.5	0.56	8.1	OK

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OF-3-5.012	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	MH-150	Infiltration Trench (56)	67.652	66.511	0.150	13.390	0.5	0.49	7.0	Surcharged
OF-3-1.011	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (57)	MH-125	67.470	66.392	0.121	33.190	0.6	0.5	8.8	Surcharged
OF-3-5.013	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (56)	MH-151	67.510	66.419	0.150	38.520	0.6	0.66	9.6	Surcharged
OF-3-1.012	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-125	Infiltration Trench (59)	67.707	66.299	0.134	33.179	0.5	0.61	8.8	OK
OF-3-5.014	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-151	Infiltration Trench (58)	67.711	66.385	0.150	38.506	0.5	0.66	9.6	Surcharged
OF-3-5.015	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (58)	MH-152	67.383	66.298	0.103	44.472	0.9	0.76	11.0	OK
OF-3-1.013	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (59)	MH-126	67.323	66.224	0.099	38.179	0.8	0.68	9.8	OK
OF-3-6.002	FEH: 10 years: +0 %: 480 mins: Winter	Pipe	MH-40	MH-157	68.161	66.957	0.150	510.108	0.9	0.83	12.0	Surcharged
OF-3-1.002	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	MH-119	MH-120	67.948	66.841	0.099	9.141	0.7	0.49	6.1	OK
OF-3-5.004	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	MH-145	MH-146	67.827	66.814	0.150	10.965	0.4	0.39	5.7	Surcharged
OF-3-5.009	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	MH-148	MH-149	67.688	66.662	0.150	18.137	0.4	0.41	6.0	Surcharged
OF-3-1.007	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	MH-122	MH-123	67.682	66.520	0.122	9.811	0.5	0.55	7.9	OK
OF-3-5.002	FEH: 10 years: +0 %: 60 mins: Summer	Pipe	MH-144	Infiltration Trench (20)	67.942	66.857	0.099	4.502	0.5	0.33	4.7	OK
OF-3-5.003	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (20)	MH-145	67.928	66.822	0.150	10.979	0.8	0.36	5.8	Surcharged
OF-3-1.003	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	MH-120	Infiltration Trench (23)	67.796	66.766	0.140	9.133	0.5	0.29	6.0	OK
OF-3-5.005	FEH: 10 years: +0 %: 30 mins: Summer	Pipe	MH-146	Infiltration Trench (22)	67.761	66.735	0.150	6.037	0.3	0.35	5.1	Surcharged
OF-3-5.006	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (22)	MH-147	67.710	66.747	0.150	9.847	0.4	0.49	5.5	Surcharged

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OF-3-1.004	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (23)	MH-121	67.778	66.702	0.094	12.461	0.6	0.48	7.0	Surcharged
OF-3-1.005	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	MH-121 Infiltration Trench (52)		67.706	66.595	0.096	12.452	0.6	0.48	7.0	OK
OF-3-5.007	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	MH-147 Infiltration Trench (53)		67.716	66.693	0.150	9.816	0.3	0.39	5.6	Surcharged
OF-3-5.008	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (53)	MH-148	67.651	66.703	0.150	18.148	0.6	0.41	6.0	Surcharged
OF-3-1.006	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (52)	MH-122	67.656	66.522	0.107	9.836	0.7	0.55	7.9	OK
OF-3-5.010	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	MH-149 Infiltration Trench (54)		67.670	66.624	0.150	12.479	0.4	0.41	6.0	Surcharged
OF-3-5.011	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (54)	MH-150	67.560	66.598	0.150	13.464	0.5	0.48	6.9	Surcharged
OF-3-2.000	FEH: 10 years: +0 %: 15 mins: Summer	Pipe	MH-129 Infiltration Trench (67)		68.213	66.975	0.032	0.000	0.0	0	0.0	OK
OF-3-6.000	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-156 Infiltration Trench (68)		68.216	67.080	0.046	0.000	0.0	0	0.0	OK
OF-3-6.001	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (68)	MH-40	68.189	66.939	0.060	3.240	0.5	0.2	2.9	Surcharged
OF-3-2.001	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (67)	MH-130	68.005	66.491	0.035	2.905	0.8	0.1	2.6	OK
OF-3-5.017	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-153	MH-154	67.904	66.200	0.081	47.316	1.0	0.34	11.6	OK
OF-3-3.001	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-133	MH-134	67.640	66.769	0.048	5.762	0.7	0.07	4.5	Surcharged
OF-3-3.002	FEH: 10 years: +0 %: 30 mins: Summer	Pipe	MH-134	MH-135	67.638	66.405	0.070	11.706	0.6	0.13	4.5	OK
OF-3-3.003	FEH: 10 years: +0 %: 720 mins: Summer	Pipe	MH-135	136	67.552	66.352	0.126	263.035	0.5	0.13	4.5	OK
OF-3-3.004	FEH: 10 years: +0 %: 1440 mins: Winter	Pipe	136	MH-137	67.579	66.347	0.178	424.492	0.3	0.13	4.5	OK
OF-3-3.005	FEH: 10 years: +0 %: 720 mins: Summer	Pipe	MH-137	138	67.508	66.346	0.081	262.124	0.4	0.15	4.5	OK

Project: West of Ifield Phase 1A				Date: 27/11/2023								
				Designed by:	Checked by:	Approved By:						
				D.Samuel								
Report Details: Type: Connections Summary Storm Phase: Proposed Outfall-3				Company Address: Arcadis								

OF-3-3.006	FEH: 10 years: +0 %: 1440 mins: Summer	Pipe	138	MH-22	67.557	66.142	0.104	379.270	0.4	0.15	4.5	OK
OF-3-3.007	FEH: 10 years: +0 %: 1440 mins: Winter	Pipe	MH-22	MH-142	67.799	66.109	0.196	2155.791	0.6	0.62	21.3	OK
OF-3-4.001	FEH: 10 years: +0 %: 1440 mins: Winter	Pipe	MH-141	MH-22	67.425	66.393	0.109	1731.697	0.8	0.29	18.1	Surcharged
OF-3-7.001	FEH: 10 years: +0 %: 480 mins: Winter	Pipe	MH-159	MH-40	68.000	67.218	0.160	501.763	0.7	0.28	12.0	Surcharged
OF-3-1.016	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-128	MH-161	68.002	65.998	0.162	366.632	1.6	1.36	47.1	OK
OF-3-1.017	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-161	MH-162	67.475	65.910	0.141	390.027	1.2	0.18	52.1	OK
OF-3-2.002	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	MH-130	Infiltration Trench (65)	68.071	66.417	0.045	2.901	0.6	0.1	2.6	OK
OF-3-2.003	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	Infiltration Trench (65)	MH-131	67.489	66.105	0.057	2.558	0.9	0.28	5.8	OK
OF-3-5.019	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-155	MH-142	67.916	66.106	0.197	174.155	0.8	0.26	23.3	OK
OF-3-3.008	FEH: 10 years: +0 %: 240 mins: Winter	Pipe	MH-142	MH-131	67.526	66.107	0.225	672.102	0.9	1.02	35.2	Surcharged
OF-3-2.004	FEH: 10 years: +0 %: 240 mins: Winter	Pipe	MH-131	MH-128	67.952	66.050	0.208	688.680	1.0	1.08	37.2	OK
OF-3-6.003	FEH: 10 years: +0 %: 480 mins: Winter	Pipe	MH-157	Infiltration Trench (66)	68.071	66.878	0.150	509.928	1.0	0.56	12.0	Surcharged
OF-3-6.004	FEH: 10 years: +0 %: 720 mins: Winter	Pipe	Infiltration Trench (66)	MH-155	67.799	66.624	0.053	738.041	2.2	0.24	12.3	Surcharged
OF-3-1.021	FEH: 10 years: +0 %: 120 mins: Winter	Pipe	MH-165	P01	66.000	65.210	0.298	416.269	1.3	0.32	59.0	OK
OF-3-1.022	FEH: 10 years: +0 %: 480 mins: Winter	Pipe	P01	MH-166	66.000	65.251	0.300	1477.807	0.6	0.32	39.4	Surcharged
OF-3-1.023	FEH: 10 years: +0 %: 480 mins: Winter	Pipe	MH-166	HW	66.000	65.232	0.185	1476.953	1.1	0.93	39.4	Surcharged
Pipe	FEH: 10 years: +0 %: 15 mins: Winter	Pipe	MH-132	Future Plot Storage-3	67.633	67.036	0.234	109.530	3.3	1.77	273.4	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023				
		Designed by: D.Samuel	Checked by:	Approved By:		
Report Details: Type: Connections Summary Storm Phase: Proposed Outfall-3		Company Address: Arcadis				

Pipe (1)	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	Future Plot Storage- 3	MH-133	67.630	66.812	0.221	10.612	0.3	0.02	4.9	OK
Pipe (2)	FEH: 10 years: +0 %: 30 mins: Winter	Pipe	MH-158	Future Plot Storage- 1	68.000	67.247	0.213	397.284	4.5	0.55	338.0	OK
Pipe (3)	FEH: 10 years: +0 %: 480 mins: Winter	Pipe	Future Plot Storage- 1	MH-159	68.000	67.219	0.348	502.510	0.1	0.05	11.9	OK
Pipe (4)	FEH: 10 years: +0 %: 60 mins: Winter	Pipe	MH-140	Future Plot Storage- 2	67.453	66.668	0.325	1205.460	4.0	1.37	596.2	OK
Pipe (5)	FEH: 10 years: +0 %: 1440 mins: Winter	Pipe	Future Plot Storage- 2	MH-141	67.400	66.394	0.305	1732.168	0.2	0.09	18.1	OK

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Proposed Outfall-3	Company Address: Arcadis		



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
OF-3-5.016	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-152	MH-153	67.812	66.244	0.103	46.107	0.7	0.37	12.8	OK
OF-3-5.018	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-154	MH-155	67.959	66.162	0.147	52.395	0.9	0.23	14.7	OK
OF-3-1.014	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	MH-126	MH-127	67.819	66.178	0.085	53.754	1.1	0.88	11.0	OK
OF-3-1.015	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	MH-127	MH-128	67.930	66.115	0.149	57.904	0.7	0.43	11.8	OK
OF-3-1.020	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-164	MH-165	66.019	65.237	0.282	296.146	1.0	0.47	74.3	OK
OF-3-1.018	FEH: 30 years: +0 %: 15 mins: Winter	Pipe	MH-162	MH-163	66.621	65.512	0.197	64.416	1.1	0.3	71.7	OK
OF-3-1.019	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-163	MH-164	66.040	65.253	0.238	298.072	0.9	0.35	73.9	OK
OF-3-1.000	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	MH-118	Infiltration Trench (19)	68.077	66.958	0.016	0.000	0.0	0	0.0	OK
OF-3-5.000	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-143	Infiltration Trench (17)	68.059	66.972	0.097	0.000	0.1	0.01	0.1	OK
OF-3-1.001	FEH: 30 years: +0 %: 15 mins: Winter	Pipe	Infiltration Trench (19)	MH-119	68.050	66.844	0.098	2.334	0.5	0.38	5.5	OK
OF-3-5.001	FEH: 30 years: +0 %: 30 mins: Summer	Pipe	Infiltration Trench (17)	MH-144	68.034	66.873	0.133	4.735	0.6	0.47	6.8	OK
OF-3-1.008	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	MH-123	Infiltration Trench (55)	67.668	66.580	0.150	14.993	0.5	0.75	8.6	Surcharged
OF-3-1.009	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (55)	MH-124	67.532	66.533	0.150	16.116	0.5	0.63	9.2	Surcharged
OF-3-1.010	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	MH-124	Infiltration Trench (57)	67.650	66.516	0.150	15.971	0.5	0.64	9.2	Surcharged

Project: West of Ifield Phase 1A		Date: 27/11/2023			
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Report Details: Type: Connections Summary Storm Phase: Proposed Outfall-3		Company Address: Arcadis			

OF-3-5.012	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	MH-150	Infiltration Trench (56)	67.652	66.586	0.150	16.436	0.5	0.53	7.7	Surcharged
OF-3-1.011	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (57)	MH-125	67.470	66.438	0.137	35.305	0.6	0.56	9.9	Surcharged
OF-3-5.013	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (56)	MH-151	67.510	66.482	0.150	40.400	0.6	0.76	11.0	Surcharged
OF-3-1.012	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-125	Infiltration Trench (59)	67.707	66.314	0.148	35.268	0.6	0.69	9.9	OK
OF-3-5.014	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-151	Infiltration Trench (58)	67.711	66.427	0.150	40.343	0.6	0.77	11.1	Surcharged
OF-3-5.015	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (58)	MH-152	67.383	66.323	0.115	46.174	0.9	0.88	12.8	Surcharged
OF-3-1.013	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (59)	MH-126	67.323	66.239	0.108	53.771	0.8	0.76	11.0	OK
OF-3-6.002	FEH: 30 years: +0 %: 480 mins: Winter	Pipe	MH-40	MH-157	68.161	67.024	0.150	568.281	0.8	0.87	12.6	Surcharged
OF-3-1.002	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	MH-119	MH-120	67.948	66.902	0.150	9.496	0.6	0.79	9.8	OK
OF-3-5.004	FEH: 30 years: +0 %: 120 mins: Summer	Pipe	MH-145	MH-146	67.827	66.886	0.150	17.941	0.4	0.39	5.6	Surcharged
OF-3-5.009	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-148	MH-149	67.688	66.771	0.150	26.053	0.4	0.43	6.2	Surcharged
OF-3-1.007	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	MH-122	MH-123	67.682	66.600	0.150	15.079	0.5	0.59	8.6	Surcharged
OF-3-5.002	FEH: 30 years: +0 %: 30 mins: Summer	Pipe	MH-144	Infiltration Trench (20)	67.942	66.907	0.149	4.725	0.5	0.46	6.5	OK
OF-3-5.003	FEH: 30 years: +0 %: 30 mins: Summer	Pipe	Infiltration Trench (20)	MH-145	67.928	66.855	0.150	9.553	0.6	0.37	5.9	Surcharged
OF-3-1.003	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	MH-120	Infiltration Trench (23)	67.796	66.863	0.150	9.495	0.5	0.43	9.0	Surcharged
OF-3-5.005	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	MH-146	Infiltration Trench (22)	67.761	66.761	0.150	4.713	0.3	0.35	5.0	Surcharged
OF-3-5.006	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (22)	MH-147	67.710	66.887	0.150	21.320	0.3	0.5	5.7	Surcharged

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OF-3-1.004	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (23)	MH-121	67.778	66.786	0.141	12.926	0.6	0.55	8.0	Surcharged
OF-3-1.005	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	MH-121 Infiltration Trench (52)		67.706	66.647	0.150	12.903	0.5	0.55	7.9	OK
OF-3-5.007	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-147 Infiltration Trench (53)		67.716	66.837	0.150	21.306	0.3	0.4	5.8	Surcharged
OF-3-5.008	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (53)	MH-148	67.651	66.816	0.150	26.068	0.5	0.44	6.3	Surcharged
OF-3-1.006	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (52)	MH-122	67.656	66.595	0.150	15.111	0.6	0.59	8.6	Surcharged
OF-3-5.010	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-149 Infiltration Trench (54)		67.670	66.761	0.150	26.035	0.4	0.43	6.3	Surcharged
OF-3-5.011	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (54)	MH-150	67.560	66.694	0.150	16.573	0.5	0.52	7.6	Surcharged
OF-3-2.000	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	MH-129 Infiltration Trench (67)		68.213	66.975	0.037	0.000	0.0	0	0.0	OK
OF-3-6.000	FEH: 30 years: +0 %: 30 mins: Summer	Pipe	MH-156 Infiltration Trench (68)		68.216	67.075	0.042	0.000	0.0	0.01	0.1	OK
OF-3-6.001	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (68)	MH-40	68.189	66.964	0.108	5.359	0.6	0.3	4.3	Surcharged
OF-3-2.001	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (67)	MH-130	68.005	66.502	0.052	3.102	0.9	0.2	5.0	OK
OF-3-5.017	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-153	MH-154	67.904	66.211	0.095	49.080	1.0	0.39	13.5	OK
OF-3-3.001	FEH: 30 years: +0 %: 480 mins: Summer	Pipe	MH-133	MH-134	67.640	67.004	0.048	178.577	0.7	0.07	4.5	Surcharged
OF-3-3.002	FEH: 30 years: +0 %: 360 mins: Summer	Pipe	MH-134	MH-135	67.638	66.404	0.071	134.209	0.6	0.13	4.5	OK
OF-3-3.003	FEH: 30 years: +0 %: 960 mins: Summer	Pipe	MH-135	136	67.552	66.352	0.126	361.305	0.5	0.13	4.5	OK
OF-3-3.004	FEH: 30 years: +0 %: 1440 mins: Winter	Pipe	136	MH-137	67.579	66.347	0.178	523.272	0.3	0.13	4.5	OK
OF-3-3.005	FEH: 30 years: +0 %: 1440 mins: Winter	Pipe	MH-137	138	67.508	66.346	0.121	523.161	0.4	0.15	4.5	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
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Report Details: Type: Connections Summary Storm Phase: Proposed Outfall-3		Company Address: Arcadis			

OF-3-3.006	FEH: 30 years: +0 %: 1440 mins: Summer	Pipe	138	MH-22	67.557	66.177	0.162	469.320	0.4	0.15	4.5	OK
OF-3-3.007	FEH: 30 years: +0 %: 1440 mins: Winter	Pipe	MH-22	MH-142	67.799	66.176	0.225	2755.639	0.7	0.76	26.1	Surcharged
OF-3-4.001	FEH: 30 years: +0 %: 1440 mins: Winter	Pipe	MH-141	MH-22	67.425	66.461	0.133	2233.034	0.8	0.35	22.4	Surcharged
OF-3-7.001	FEH: 30 years: +0 %: 720 mins: Winter	Pipe	MH-159	MH-40	68.000	67.310	0.225	817.815	0.7	0.29	12.4	Surcharged
OF-3-1.016	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	MH-128	MH-161	68.002	66.032	0.185	465.668	1.6	1.58	54.6	Surcharged
OF-3-1.017	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	MH-161	MH-162	67.475	65.921	0.154	495.747	1.3	0.21	61.0	OK
OF-3-2.002	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	MH-130	Infiltration Trench (65)	68.071	66.434	0.063	3.093	0.7	0.19	5.1	OK
OF-3-2.003	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (65)	MH-131	67.489	66.173	0.087	13.879	1.0	0.39	8.3	OK
OF-3-5.019	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	MH-155	MH-142	67.916	66.170	0.225	206.762	0.8	0.29	26.4	OK
OF-3-3.008	FEH: 30 years: +0 %: 240 mins: Winter	Pipe	MH-142	MH-131	67.526	66.159	0.225	816.465	1.0	1.2	41.4	Surcharged
OF-3-2.004	FEH: 30 years: +0 %: 240 mins: Winter	Pipe	MH-131	MH-128	67.952	66.087	0.225	838.855	1.1	1.25	43.0	Surcharged
OF-3-6.003	FEH: 30 years: +0 %: 480 mins: Winter	Pipe	MH-157	Infiltration Trench (66)	68.071	66.935	0.150	567.948	0.9	0.58	12.6	Surcharged
OF-3-6.004	FEH: 30 years: +0 %: 480 mins: Winter	Pipe	Infiltration Trench (66)	MH-155	67.799	66.669	0.084	581.819	2.2	0.25	12.9	Surcharged
OF-3-1.021	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	MH-165	P01	66.000	65.226	0.314	294.026	1.6	0.4	73.5	OK
OF-3-1.022	FEH: 30 years: +0 %: 480 mins: Winter	Pipe	P01	MH-166	66.000	65.341	0.300	1790.125	0.6	0.37	45.2	Surcharged
OF-3-1.023	FEH: 30 years: +0 %: 480 mins: Winter	Pipe	MH-166	HW	66.000	65.317	0.225	1789.205	1.1	1.07	45.2	Surcharged
Pipe	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	MH-132	Future Plot Storage-3	67.633	67.092	0.268	127.574	3.3	2.13	327.8	Surcharged

Project: West of Ifield Phase 1A		Date: 27/11/2023			
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Report Details: Type: Connections Summary Storm Phase: Proposed Outfall-3		Company Address: Arcadis			

Pipe (1)	FEH: 30 years: +0 %: 30 mins: Summer	Pipe	Future Plot Storage- 3	MH-133	67.630	66.846	0.255	9.894	0.3	0.02	5.1	OK
Pipe (2)	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	MH-158	Future Plot Storage- 1	68.000	67.310	0.261	524.013	4.7	0.72	445.9	OK
Pipe (3)	FEH: 30 years: +0 %: 720 mins: Winter	Pipe	Future Plot Storage- 1	MH-159	68.000	67.311	0.441	818.593	0.1	0.05	12.4	OK
Pipe (4)	FEH: 30 years: +0 %: 30 mins: Winter	Pipe	MH-140	Future Plot Storage- 2	67.453	66.709	0.345	1255.513	5.8	2.05	890.6	OK
Pipe (5)	FEH: 30 years: +0 %: 1440 mins: Winter	Pipe	Future Plot Storage- 2	MH-141	67.400	66.462	0.372	2233.568	0.2	0.11	22.4	OK

Project: West of Ifield Phase 1A	Date: 27/11/2023		
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Report Details: Type: Connections Summary Storm Phase: Proposed Outfall-3	Company Address: Arcadis		



FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
OF-3-5.016	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-152	MH-153	67.812	66.378	0.225	73.443	0.6	0.45	15.6	Surcharged
OF-3-5.018	FEH: 100 years: +40 %: 60 mins: Summer	Pipe	MH-154	MH-155	67.959	66.324	0.225	78.946	0.8	0.3	19.6	Surcharged
OF-3-1.014	FEH: 100 years: +40 %: 120 mins: Winter	Pipe	MH-126	MH-127	67.819	66.280	0.150	113.808	1.1	1.07	13.3	Surcharged
OF-3-1.015	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-127	MH-128	67.930	66.225	0.150	72.318	0.8	0.53	14.5	Surcharged
OF-3-1.020	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	MH-164	MH-165	66.019	65.308	0.321	230.478	1.2	0.87	136.5	OK
OF-3-1.018	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	MH-162	MH-163	66.621	65.581	0.290	226.091	1.2	0.54	128.9	OK
OF-3-1.019	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	MH-163	MH-164	66.040	65.368	0.333	232.868	1.1	0.65	137.8	OK
OF-3-1.000	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-118	Infiltration Trench (19)	68.077	67.089	0.150	0.000	0.0	0.02	0.4	OK
OF-3-5.000	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-143	Infiltration Trench (17)	68.059	67.343	0.150	0.000	0.0	0.01	0.2	Surcharged
OF-3-1.001	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	Infiltration Trench (19)	MH-119	68.050	67.038	0.150	4.035	0.4	0.43	6.3	Surcharged
OF-3-5.001	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	Infiltration Trench (17)	MH-144	68.034	67.074	0.150	3.724	0.6	0.75	10.9	Surcharged
OF-3-1.008	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	MH-123	Infiltration Trench (55)	67.668	66.783	0.150	22.149	0.5	0.84	9.6	Surcharged
OF-3-1.009	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	Infiltration Trench (55)	MH-124	67.532	66.841	0.150	44.992	0.7	0.82	11.9	Surcharged
OF-3-1.010	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-124	Infiltration Trench (57)	67.650	66.819	0.150	44.659	0.7	0.82	11.9	Surcharged

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OF-3-5.012	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	MH-150	Infiltration Trench (56)	67.652	66.870	0.150	19.283	0.5	0.64	9.3	Surcharged
OF-3-1.011	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	Infiltration Trench (57)	MH-125	67.470	66.652	0.150	57.111	0.7	0.7	12.3	Surcharged
OF-3-5.013	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	Infiltration Trench (56)	MH-151	67.510	66.665	0.150	28.813	0.8	0.98	14.1	Surcharged
OF-3-1.012	FEH: 100 years: +40 %: 120 mins: Winter	Pipe	MH-125	Infiltration Trench (59)	67.707	66.463	0.150	99.217	0.7	0.85	12.3	Surcharged
OF-3-5.014	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	MH-151	Infiltration Trench (58)	67.711	66.550	0.150	28.510	0.8	0.98	14.2	Surcharged
OF-3-5.015	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	Infiltration Trench (58)	MH-152	67.383	66.480	0.150	73.676	0.9	1.08	15.6	Surcharged
OF-3-1.013	FEH: 100 years: +40 %: 120 mins: Winter	Pipe	Infiltration Trench (59)	MH-126	67.323	66.352	0.150	113.841	0.8	0.92	13.3	Surcharged
OF-3-6.002	FEH: 100 years: +40 %: 120 mins: Winter	Pipe	MH-40	MH-157	68.161	67.215	0.150	126.277	0.9	0.93	13.4	Surcharged
OF-3-1.002	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	MH-119	MH-120	67.948	67.157	0.150	17.894	0.6	0.82	10.2	Surcharged
OF-3-5.004	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-145	MH-146	67.827	67.293	0.150	25.707	0.5	0.36	5.2	Surcharged
OF-3-5.009	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-148	MH-149	67.688	67.132	0.150	39.598	0.4	0.48	7.0	Surcharged
OF-3-1.007	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	MH-122	MH-123	67.682	66.809	0.150	22.593	0.5	0.66	9.5	Surcharged
OF-3-5.002	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-144	Infiltration Trench (20)	67.942	67.110	0.150	3.347	0.6	0.67	9.5	Surcharged
OF-3-5.003	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	Infiltration Trench (20)	MH-145	67.928	67.195	0.150	11.735	0.6	0.36	5.8	Surcharged
OF-3-1.003	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	MH-120	Infiltration Trench (23)	67.796	67.114	0.150	17.401	0.6	0.44	9.2	Surcharged
OF-3-5.005	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-146	Infiltration Trench (22)	67.761	67.285	0.150	25.191	0.3	0.37	5.3	Surcharged
OF-3-5.006	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	Infiltration Trench (22)	MH-147	67.710	67.258	0.150	32.277	0.4	0.57	6.5	Surcharged

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OF-3-1.004	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	Infiltration Trench (23)	MH-121	67.778	66.930	0.150	9.357	0.5	0.6	8.7	Surcharged
OF-3-1.005	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-121	Infiltration Trench (52)	67.706	66.761	0.150	9.059	0.5	0.61	8.8	Surcharged
OF-3-5.007	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-147	Infiltration Trench (53)	67.716	67.205	0.150	31.937	0.4	0.46	6.7	Surcharged
OF-3-5.008	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	Infiltration Trench (53)	MH-148	67.651	67.184	0.150	39.956	0.5	0.48	6.9	Surcharged
OF-3-1.006	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	Infiltration Trench (52)	MH-122	67.656	66.810	0.150	22.991	0.6	0.66	9.5	Surcharged
OF-3-5.010	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-149	Infiltration Trench (54)	67.670	67.121	0.150	39.197	0.4	0.5	7.2	Surcharged
OF-3-5.011	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	Infiltration Trench (54)	MH-150	67.560	67.016	0.150	19.619	0.5	0.62	9.0	Surcharged
OF-3-2.000	FEH: 100 years: +40 %: 15 mins: Summer	Pipe	MH-129	Infiltration Trench (67)	68.213	66.975	0.054	0.000	0.0	0	0.0	OK
OF-3-6.000	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-156	Infiltration Trench (68)	68.216	67.192	0.150	0.000	0.1	0.02	0.5	OK
OF-3-6.001	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	Infiltration Trench (68)	MH-40	68.189	67.064	0.146	5.416	0.5	0.54	7.8	Surcharged
OF-3-2.001	FEH: 100 years: +40 %: 15 mins: Summer	Pipe	Infiltration Trench (67)	MH-130	68.005	66.545	0.100	4.183	0.8	0.3	7.5	OK
OF-3-5.017	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-153	MH-154	67.904	66.370	0.225	78.564	0.8	0.49	16.8	Surcharged
OF-3-3.001	FEH: 100 years: +40 %: 480 mins: Winter	Pipe	MH-133	MH-134	67.640	67.438	0.184	242.696	0.7	0.08	4.9	Flood Risk
OF-3-3.002	FEH: 100 years: +40 %: 720 mins: Winter	Pipe	MH-134	MH-135	67.638	66.620	0.225	364.346	0.6	0.15	5.2	Surcharged
OF-3-3.003	FEH: 100 years: +40 %: 720 mins: Winter	Pipe	MH-135	136	67.552	66.617	0.225	363.642	0.5	0.15	5.3	Surcharged
OF-3-3.004	FEH: 100 years: +40 %: 720 mins: Winter	Pipe	136	MH-137	67.579	66.615	0.225	362.929	0.3	0.16	5.4	Surcharged
OF-3-3.005	FEH: 100 years: +40 %: 480 mins: Winter	Pipe	MH-137	138	67.508	66.617	0.225	239.759	0.4	0.19	5.7	Surcharged

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OF-3-3.006	FEH: 100 years: +40 %: 480 mins: Winter	Pipe	138	MH-22	67.557	66.455	0.225	238.118	0.5	0.21	6.2	Surcharged
OF-3-3.007	FEH: 100 years: +40 %: 360 mins: Winter	Pipe	MH-22	MH-142	67.799	66.399	0.225	1036.232	0.9	1.01	34.9	Surcharged
OF-3-4.001	FEH: 100 years: +40 %: 960 mins: Winter	Pipe	MH-141	MH-22	67.425	66.771	0.290	2166.954	0.8	0.47	29.6	Surcharged
OF-3-7.001	FEH: 100 years: +40 %: 120 mins: Winter	Pipe	MH-159	MH-40	68.000	67.500	0.225	111.467	0.7	0.29	12.5	Surcharged
OF-3-1.016	FEH: 100 years: +40 %: 240 mins: Winter	Pipe	MH-128	MH-161	68.002	66.152	0.225	1264.464	1.7	1.92	66.2	Surcharged
OF-3-1.017	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	MH-161	MH-162	67.475	65.955	0.209	191.426	1.4	0.3	89.6	OK
OF-3-2.002	FEH: 100 years: +40 %: 15 mins: Summer	Pipe	MH-130	Infiltration Trench (65)	68.071	66.509	0.150	4.164	0.6	0.28	7.7	OK
OF-3-2.003	FEH: 100 years: +40 %: 30 mins: Summer	Pipe	Infiltration Trench (65)	MH-131	67.489	66.374	0.140	18.429	0.9	0.55	11.5	Surcharged
OF-3-5.019	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	MH-155	MH-142	67.916	66.347	0.225	161.856	0.8	0.37	32.9	Surcharged
OF-3-3.008	FEH: 100 years: +40 %: 480 mins: Winter	Pipe	MH-142	MH-131	67.526	66.353	0.225	2053.587	1.4	1.58	54.4	Surcharged
OF-3-2.004	FEH: 100 years: +40 %: 720 mins: Winter	Pipe	MH-131	MH-128	67.952	66.230	0.225	3049.599	1.5	1.68	58.0	Surcharged
OF-3-6.003	FEH: 100 years: +40 %: 120 mins: Winter	Pipe	MH-157	Infiltration Trench (66)	68.071	67.127	0.150	126.091	1.0	0.63	13.5	Surcharged
OF-3-6.004	FEH: 100 years: +40 %: 480 mins: Winter	Pipe	Infiltration Trench (66)	MH-155	67.799	66.854	0.150	571.545	2.1	0.29	15.0	Surcharged
OF-3-1.021	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	MH-165	P01	66.000	65.262	0.349	228.037	2.1	0.78	144.0	OK
OF-3-1.022	FEH: 100 years: +40 %: 480 mins: Winter	Pipe	P01	MH-166	66.000	65.707	0.300	2296.362	0.7	0.42	51.4	Flood Risk
OF-3-1.023	FEH: 100 years: +40 %: 1440 mins: Winter	Pipe	MH-166	HW	66.000	65.706	0.225	6421.632	1.3	1.21	51.4	Flood Risk
Pipe	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	MH-132	Future Plot Storage-3	67.633	67.175	0.350	251.796	4.1	3.52	542.6	Surcharged

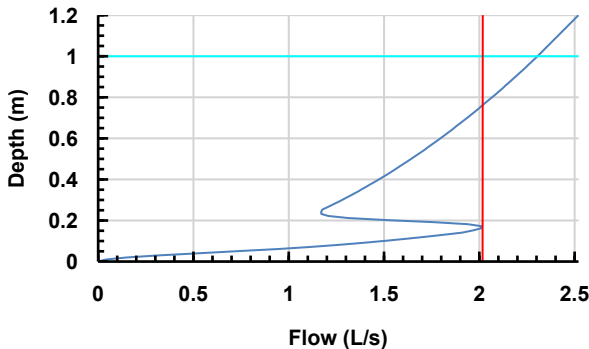
Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Proposed Outfall-3		Company Address: Arcadis			

Pipe (1)	FEH: 100 years: +40 %: 15 mins: Summer	Pipe	Future Plot Storage-3	MH-133	67.630	66.922	0.331	5.595	0.5	0.03	6.1	OK
Pipe (2)	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	MH-158	Future Plot Storage-1	68.000	67.495	0.411	935.056	4.8	1.33	816.2	OK
Pipe (3)	FEH: 100 years: +40 %: 480 mins: Winter	Pipe	Future Plot Storage-1	MH-159	68.000	67.677	0.450	516.973	0.1	0.05	12.4	Surcharged
Pipe (4)	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	MH-140	Future Plot Storage-2	67.453	67.013	0.541	2231.035	6.7	3.22	1397.8	Surcharged
Pipe (5)	FEH: 100 years: +40 %: 480 mins: Winter	Pipe	Future Plot Storage-2	MH-141	67.400	66.702	0.450	1054.156	0.4	0.35	71.0	Surcharged

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Outfall-4 without Pond	Company Address: Arcadis		



Outlets

	Junction	Outlet Name	Outgoing Connection	Outlet Type
	MH-168	Outlet	OF 4-1.000	Free Discharge
	MH-175	Outlet	OF 4-3.000	Free Discharge
	MH-171	Outlet	OF 4-1.005	Free Discharge
	MH-172	Outlet	OF 4-1.006	Free Discharge
	MH-173	Outlet	OF 4-1.008	Free Discharge
	MH-174	Outlet	OF 4-1.009	Free Discharge
	MH-177	Outlet	OF 4-1.011	Free Discharge
	MH-178	Outlet	Pipe	Free Discharge
	MH-169	Outlet	OF 4-1.002	Free Discharge
	MH-170	Outlet	OF 4-1.003	Free Discharge
	MH-176	Outlet	OF 4-3.001	Free Discharge
MH-179		Outlet	Pipe (2) (1)	Hydro-Brake®
		Invert Level (m)	65.535	
		Design Depth (m)	1.000	
		Design Flow (L/s)	2.3	
		Objective	Minimise Upstream Storage Requirements	
		Application	Surface Water Only	
		Sump Available	☐	
		Unit Reference	CHE-0069-2300-1000-2300	
				

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	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-4 without Pond	Company Address: Arcadis		





Infiltration Trench (71)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.732
Depth (m)	1.300
Base Level (m)	66.432
Freeboard (mm)	200
Porosity (%)	30
Length (m)	24.177
Long. Slope (1:X)	120.00
Width (m)	2.787
Total Volume (m³)	22.537

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-4 without Pond	Company Address: Arcadis		





Infiltration Trench (72)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.739
Depth (m)	1.300
Base Level (m)	66.439
Freeboard (mm)	200
Porosity (%)	30
Length (m)	17.330
Long. Slope (1:X)	500.00
Width (m)	1.672
Total Volume (m³)	9.779

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-4 without Pond	Company Address: Arcadis		





Infiltration Trench (73)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.724
Depth (m)	1.300
Base Level (m)	66.424
Freeboard (mm)	200
Porosity (%)	30
Length (m)	39.886
Long. Slope (1:X)	120.00
Width (m)	2.942
Total Volume (m³)	39.223

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-4 without Pond	Company Address: Arcadis		





Infiltration Trench (74)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	67.510
Depth (m)	1.300
Base Level (m)	66.210
Freeboard (mm)	200
Porosity (%)	30
Length (m)	16.132
Long. Slope (1:X)	150.00
Width (m)	2.949
Total Volume (m³)	15.897

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Report Details: Type: Stormwater Controls Storm Phase: Outfall-4 without Pond	Company Address: Arcadis		





Infiltration Trench (75)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	66.831
Depth (m)	1.300
Base Level (m)	65.531
Freeboard (mm)	200
Porosity (%)	30
Length (m)	59.931
Long. Slope (1:X)	100.00
Width (m)	2.627
Total Volume (m³)	52.692

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Outfall-4 without Pond	Company Address: Arcadis		





Infiltration Trench

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	68.195
Depth (m)	1.300
Base Level (m)	66.895
Freeboard (mm)	200
Porosity (%)	30
Length (m)	18.173
Long. Slope (1:X)	500.00
Width (m)	2.712
Total Volume (m³)	16.487

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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Report Details: Type: Stormwater Controls Storm Phase: Outfall-4 without Pond	Company Address: Arcadis		





Infiltration Trench (1)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	68.075
Depth (m)	1.300
Base Level (m)	66.775
Freeboard (mm)	200
Porosity (%)	30
Length (m)	21.653
Long. Slope (1:X)	500.00
Width (m)	2.550
Total Volume (m³)	18.486

Under Drain

Height Above Base (m)	0.125
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Advanced

Conductivity (m/hr)	0.1
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	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Outfall-4 without Pond	Company Address: Arcadis			



Cellular Storage

Type : Cellular Storage

Dimensions

Exceedance Level (m)	66.780
Depth (m)	0.800
Base Level (m)	64.280
Number of Crates Long	6
Number of Crates Wide	136
Number of Crates High	2
Porosity (%)	100
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	328.100

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Connections Storm Phase: Outfall-4 without Pond	Company Address: Arcadis		



Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
OF 4-1.005	14.776	Pipe	150.000		0.6	150	68.118	66.886
OF 4-1.008	9.484	Pipe	150.000		0.6	150	67.744	66.531
OF 4-1.006	2.773	Pipe	95.621		0.6	150	67.989	66.787
OF 4-3.002	3.408	Pipe	42.075		0.6	150	68.056	66.549
OF 4-1.007	3.311	Pipe	129.719		0.6	150	67.933	66.557
OF 4-2.000	2.143	Pipe	63.035		0.6	150	67.774	66.565
OF 4-1.009	2.877	Pipe	110.638		0.6	150	67.765	66.468
OF 4-1.010	2.394	Pipe	150.000		0.6	150	67.618	66.335
OF 4-1.011	3.262	Pipe	50.962		0.6	150	67.516	66.319
OF 4-1.012	7.025	Pipe	93.666		0.6	150	67.430	65.655
OF 4-1.001	2.123	Pipe	150.000		0.6	150	68.231	67.020
OF 4-1.003	2.254	Pipe	250.403		0.6	150	68.197	66.952
OF 4-1.004	2.171	Pipe	150.000		0.6	150	68.118	66.900
OF 4-3.000	39.189	Pipe	150.000		0.6	150	68.244	67.170
OF 4-3.001	2.947	Pipe	109.166		0.6	150	68.137	66.909
OF 4-1.002	16.059	Pipe	298.221		0.6	150	68.241	67.006
OF 4-1.000	2.685	Pipe	53.702		0.6	150	68.233	67.106
Pipe	12.861	Pipe	287.845		0.6	300	66.820	65.580
Pipe (2)	2.256	Pipe	100.450		0.6	225	66.780	65.535
Pipe (2) (1)	7.387	Pipe	100.450		0.6	225	66.729	65.513

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Part Family	Lock	Min. Cover Depth (m)	Flow Restriction (L/s)	Velocity (m/s)
OF 4-1.005	67.989	66.787		All	0.000		
OF 4-1.008	67.765	66.468		All	0.000		
OF 4-1.006	67.933	66.758		All	0.000		
OF 4-3.002	67.765	66.468		All	0.000	11.4	
OF 4-1.007	67.744	66.531		All	0.000	11.4	
OF 4-2.000	67.744	66.531		All	0.000	4.1	
OF 4-1.009	67.618	66.442		All	0.000		
OF 4-1.010	67.516	66.319		All	0.000	14.6	
OF 4-1.011	67.430	66.255		All	0.000		
OF 4-1.012	66.820	65.580		All	0.000	78.1	
OF 4-1.001	68.241	67.006		All	0.000	8.6	
OF 4-1.003	68.118	66.943		All	0.000		
OF 4-1.004	68.118	66.886		All	0.000	8.6	
OF 4-3.000	68.137	66.909		All	0.000		
OF 4-3.001	68.056	66.882		All	0.000		
OF 4-1.002	68.197	66.952		All	0.000		
OF 4-1.000	68.231	67.056		All	0.000		
Pipe	66.780	65.535		All	0.000		
Pipe (2)	66.729	65.513		All	0.000		
Pipe (2) (1)	66.560	65.439		All	0.000	2.5	

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	Company Address: Arcadis			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall		
FSR	Type: FSR	
Region	England And Wales	
M5-60 (mm)	20.0	
Ratio R	0.350	
Summer	☒	
Winter	☒	

Return Period	
Return Period (years)	Increase Rainfall (%)
1.0	0.000
5.0	0.000
100.0	40.000
Storm Durations	

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
960	1920

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Outfall-4 without Pond	Company Address: Arcadis		





FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH-168	FSR: 1 years: +0 %: 15 mins: Summer	68.23 3	67.10 6	67.106	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH-175	FSR: 1 years: +0 %: 15 mins: Winter	68.24 4	67.17 0	67.251	0.081	8.2	0.091	0.000	7.7	3.790	OK
MH-171	FSR: 1 years: +0 %: 60 mins: Winter	68.11 8	66.88 6	66.924	0.038	2.0	0.043	0.000	2.0	3.624	OK
MH-172	FSR: 1 years: +0 %: 60 mins: Winter	67.98 9	66.78 7	66.828	0.041	2.4	0.047	0.000	2.4	4.677	OK
MH-173	FSR: 1 years: +0 %: 120 mins: Winter	67.74 4	66.53 1	66.622	0.091	3.5	0.103	0.000	3.3	9.765	OK
MH-174	FSR: 1 years: +0 %: 120 mins: Winter	67.76 5	66.46 8	66.617	0.150	7.4	0.169	0.000	7.3	20.223	OK
MH-177	FSR: 1 years: +0 %: 120 mins: Winter	67.51 6	66.31 9	66.379	0.060	6.4	0.068	0.000	6.4	21.248	OK
MH-178	FSR: 1 years: +0 %: 120 mins: Winter	66.82 0	65.58 0	65.663	0.083	10.1	0.094	0.000	10.1	34.052	OK
MH-169	FSR: 1 years: +0 %: 240 mins: Winter	68.24 1	67.00 6	67.030	0.024	0.6	0.027	0.000	0.6	2.101	OK
MH-170	FSR: 1 years: +0 %: 30 mins: Winter	68.19 7	66.95 2	67.004	0.052	1.8	0.058	0.000	1.7	1.630	OK
MH-176	FSR: 1 years: +0 %: 15 mins: Winter	68.13 7	66.90 9	66.985	0.076	7.7	0.086	0.000	7.1	3.763	OK
Outfall	FSR: 1 years: +0 %: 15 mins: Summer	66.56 0	65.43 9	65.439	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH-179	FSR: 1 years: +0 %: 15 mins: Summer	66.72 9	65.51 3	65.513	0.000	0.0	0.000	0.000	0.0	0.000	OK

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Outfall-4 without Pond	Company Address: Arcadis		





FSR: 5 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH-168	FSR: 5 years: +0 %: 15 mins: Summer	68.23 3	67.10 6	67.106	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH-175	FSR: 5 years: +0 %: 15 mins: Winter	68.24 4	67.17 0	67.285	0.115	13.6	0.131	0.000	12.7	6.308	OK
MH-171	FSR: 5 years: +0 %: 60 mins: Winter	68.11 8	66.88 6	66.934	0.049	3.1	0.055	0.000	3.1	8.253	OK
MH-172	FSR: 5 years: +0 %: 120 mins: Winter	67.98 9	66.78 7	66.849	0.062	3.5	0.070	0.000	3.5	13.387	OK
MH-173	FSR: 5 years: +0 %: 120 mins: Winter	67.74 4	66.53 1	66.749	0.218	4.0	0.246	0.000	4.1	19.498	Surcharged
MH-174	FSR: 5 years: +0 %: 120 mins: Winter	67.76 5	66.46 8	66.743	0.275	8.4	0.311	0.000	8.2	38.272	Surcharged
MH-177	FSR: 5 years: +0 %: 120 mins: Winter	67.51 6	66.31 9	66.388	0.069	8.0	0.078	0.000	8.0	40.896	OK
MH-178	FSR: 5 years: +0 %: 60 mins: Winter	66.82 0	65.58 0	65.688	0.108	16.6	0.122	0.000	16.5	46.586	OK
MH-169	FSR: 5 years: +0 %: 60 mins: Winter	68.24 1	67.00 6	67.086	0.081	1.1	0.091	0.000	1.2	2.129	OK
MH-170	FSR: 5 years: +0 %: 60 mins: Winter	68.19 7	66.95 2	67.085	0.133	2.3	0.151	0.000	2.1	5.515	OK
MH-176	FSR: 5 years: +0 %: 15 mins: Winter	68.13 7	66.90 9	67.018	0.109	12.7	0.124	0.000	11.7	6.280	OK
Outfall	FSR: 5 years: +0 %: 15 mins: Summer	66.56 0	65.43 9	65.439	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH-179	FSR: 5 years: +0 %: 15 mins: Summer	66.72 9	65.51 3	65.513	0.000	0.0	0.000	0.000	0.0	0.000	OK

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Outfall-4 without Pond	Company Address: Arcadis		





FSR: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH-168	FSR: 100 years: +40 %: 120 mins: Winter	68.233	67.106	67.574	0.468	0.3	0.529	0.000	0.1	0.562	Surcharged
MH-175	FSR: 100 years: +40 %: 15 mins: Winter	68.244	67.170	68.244	1.074	36.4	1.277	0.063	28.3	16.604	Flood Risk
MH-171	FSR: 100 years: +40 %: 120 mins: Winter	68.118	66.886	67.430	0.544	4.0	0.615	0.000	4.0	36.859	Surcharged
MH-172	FSR: 100 years: +40 %: 120 mins: Winter	67.989	66.787	67.425	0.638	5.7	0.722	0.000	5.0	42.470	Surcharged
MH-173	FSR: 100 years: +40 %: 120 mins: Winter	67.744	66.531	67.286	0.755	5.6	0.854	0.000	5.7	59.413	Surcharged
MH-174	FSR: 100 years: +40 %: 120 mins: Winter	67.765	66.468	67.278	0.810	11.2	0.916	0.000	11.3	115.836	Surcharged
MH-177	FSR: 100 years: +40 %: 60 mins: Winter	67.516	66.319	66.715	0.396	12.2	0.448	0.000	12.4	58.859	Surcharged
MH-178	FSR: 100 years: +40 %: 960 mins: Winter	66.820	65.580	66.599	1.019	14.5	1.152	0.000	14.5	366.837	Flood Risk
MH-169	FSR: 100 years: +40 %: 120 mins: Winter	68.241	67.006	67.560	0.554	1.3	0.627	0.000	1.4	12.133	Surcharged
MH-170	FSR: 100 years: +40 %: 120 mins: Winter	68.197	66.952	67.560	0.608	3.9	0.687	0.000	3.0	23.416	Surcharged
MH-176	FSR: 100 years: +40 %: 120 mins: Winter	68.137	66.909	67.602	0.693	11.7	0.784	0.000	11.2	35.723	Surcharged
Outfall	FSR: 100 years: +40 %: 960 mins: Winter	66.560	65.439	65.469	0.030	2.3	0.000	0.000	2.3	79.605	OK
MH-179	FSR: 100 years: +40 %: 960 mins: Winter	66.729	65.513	66.598	1.086	3.2	1.228	0.000	2.3	79.606	Flood Risk

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Outfall-4 without Pond		Company Address: Arcadis			



FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (71)	FSR: 1 years: +0 %: 120 mins: Winter	66.799	66.676	0.165	0.244	3.4	3.801	0.000	0.000	3.0	8.259	83.136	OK
Infiltration Trench (72)	FSR: 1 years: +0 %: 120 mins: Winter	66.627	66.627	0.153	0.188	0.9	1.485	0.000	0.000	0.7	1.520	84.817	OK
Infiltration Trench (73)	FSR: 1 years: +0 %: 60 mins: Winter	66.938	66.740	0.182	0.315	7.5	7.479	0.000	0.000	4.5	7.184	80.933	OK
Infiltration Trench (74)	FSR: 1 years: +0 %: 120 mins: Winter	66.611	66.591	0.293	0.381	8.2	4.811	0.000	0.000	6.4	21.262	69.737	OK
Infiltration Trench (75)	FSR: 1 years: +0 %: 120 mins: Winter	66.321	65.784	0.190	0.253	10.5	9.807	0.000	0.000	10.0	34.106	81.388	OK
Infiltration Trench	FSR: 1 years: +0 %: 120 mins: Winter	67.074	67.059	0.143	0.164	1.1	2.255	0.000	0.000	0.6	1.260	86.321	OK
Infiltration Trench (1)	FSR: 1 years: +0 %: 60 mins: Winter	66.999	66.992	0.181	0.217	3.4	3.288	0.000	0.000	2.0	3.642	82.214	OK
Cellular Storage	FSR: 1 years: +0 %: 960 mins: Winter	64.514	64.514	0.234	0.234	5.1	95.544	0.000	0.000	0.0	0.000	70.880	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Outfall-4 without Pond		Company Address: Arcadis			



FSR: 5 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (71)	FSR: 5 years: +0 %: 120 mins: Winter	66.846	66.837	0.213	0.405	5.2	6.252	0.000	0.000	3.6	16.526	72.257	OK
Infiltration Trench (72)	FSR: 5 years: +0 %: 120 mins: Winter	66.755	66.755	0.281	0.316	1.4	2.599	0.000	0.000	0.9	2.970	73.419	OK
Infiltration Trench (73)	FSR: 5 years: +0 %: 60 mins: Winter	66.956	66.892	0.199	0.468	12.1	11.212	0.000	0.000	5.7	14.231	71.416	OK
Infiltration Trench (74)	FSR: 5 years: +0 %: 120 mins: Winter	66.732	66.701	0.415	0.492	9.7	6.470	0.000	0.000	8.0	40.907	59.303	OK
Infiltration Trench (75)	FSR: 5 years: +0 %: 60 mins: Winter	66.328	65.838	0.198	0.307	19.3	10.994	0.000	0.000	16.7	46.799	79.136	OK
Infiltration Trench	FSR: 5 years: +0 %: 60 mins: Winter	67.101	67.100	0.170	0.205	2.6	2.772	0.000	0.000	1.1	2.066	83.189	OK
Infiltration Trench (1)	FSR: 5 years: +0 %: 60 mins: Winter	67.085	67.080	0.267	0.305	5.2	4.741	0.000	0.000	3.1	8.272	74.352	OK
Cellular Storage	FSR: 5 years: +0 %: 960 mins: Winter	64.641	64.641	0.361	0.361	7.3	147.254	0.000	0.000	0.0	0.000	55.119	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023			
		Designed by: D.Samuel	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Outfall-4 without Pond		Company Address: Arcadis			



FSR: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By:
Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (71)	FSR: 100 years: +40 %: 120 mins: Winter	67.424	67.412	0.790	0.980	10.5	17.901	0.000	0.000	4.7	51.566	20.570	OK
Infiltration Trench (72)	FSR: 100 years: +40 %: 120 mins: Winter	67.312	67.312	0.838	0.873	3.8	7.438	0.000	0.000	0.9	8.656	23.936	OK
Infiltration Trench (73)	FSR: 100 years: +40 %: 120 mins: Winter	67.600	67.568	0.844	1.144	20.9	35.038	0.000	0.000	6.6	57.115	10.671	Flood Risk
Infiltration Trench (74)	FSR: 100 years: +40 %: 120 mins: Winter	67.259	67.201	0.942	0.991	13.4	13.791	0.000	0.000	12.5	122.007	13.252	OK
Infiltration Trench (75)	FSR: 100 years: +40 %: 960 mins: Winter	66.608	66.601	0.478	1.070	14.5	36.552	0.000	0.000	14.5	366.972	30.630	OK
Infiltration Trench	FSR: 100 years: +40 %: 120 mins: Winter	67.574	67.574	0.643	0.679	4.7	9.770	0.000	0.000	1.2	11.855	40.744	OK
Infiltration Trench (1)	FSR: 100 years: +40 %: 120 mins: Winter	67.559	67.554	0.741	0.779	8.9	12.597	0.000	0.000	4.3	36.984	31.854	OK
Cellular Storage	FSR: 100 years: +40 %: 960 mins: Winter	66.599	66.599	2.319	2.319	16.3	328.061	0.000	0.000	3.2	79.651	0.012	OK

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Outfall-4 without Pond	Company Address: Arcadis		





FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
OF 4-1.005	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	MH-171	MH-172	68.118	66.924	0.040	3.624	0.5	0.14	2.0	OK
OF 4-1.008	FSR: 1 years: +0 %: 120 mins: Summer	Pipe	MH-173	MH-174	67.744	66.605	0.102	7.878	0.4	0.24	3.5	OK
OF 4-1.006	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	MH-172	Infiltration Trench (71)	67.989	66.828	0.042	4.677	0.6	0.13	2.4	OK
OF 4-3.002	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (73)	MH-174	68.056	66.637	0.091	7.182	0.9	0.16	4.5	OK
OF 4-1.007	FSR: 1 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (71)	MH-173	67.933	66.620	0.079	8.253	0.5	0.19	2.9	OK
OF 4-2.000	FSR: 1 years: +0 %: 120 mins: Summer	Pipe	Infiltration Trench (72)	MH-173	67.774	66.601	0.057	1.231	0.5	0.03	0.7	OK
OF 4-1.009	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	MH-174	Infiltration Trench (74)	67.765	66.598	0.140	12.947	0.7	0.46	7.8	OK
OF 4-1.010	FSR: 1 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (74)	MH-177	67.618	66.547	0.067	21.254	0.8	0.45	6.4	Surcharged
OF 4-1.011	FSR: 1 years: +0 %: 120 mins: Winter	Pipe	MH-177	Infiltration Trench (75)	67.516	66.379	0.063	21.248	0.9	0.26	6.4	OK
OF 4-1.012	FSR: 1 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (75)	MH-178	67.430	65.739	0.085	34.072	1.0	0.55	10.1	OK
OF 4-1.001	FSR: 1 years: +0 %: 240 mins: Winter	Pipe	Infiltration Trench	MH-169	68.231	67.047	0.023	2.105	0.3	0.04	0.6	OK
OF 4-1.003	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH-170	Infiltration Trench (1)	68.197	67.003	0.048	1.219	0.5	0.22	2.5	OK
OF 4-1.004	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (1)	MH-171	68.118	66.973	0.040	3.637	0.7	0.14	2.0	OK
OF 4-3.000	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH-175	MH-176	68.244	67.251	0.078	3.790	0.8	0.53	7.7	OK
OF 4-3.001	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH-176	Infiltration Trench (73)	68.137	66.985	0.071	3.763	0.9	0.42	7.1	OK
OF 4-1.002	FSR: 1 years: +0 %: 120 mins: Winter	Pipe	MH-169	MH-170	68.241	67.030	0.034	1.249	0.2	0.06	0.6	OK
OF 4-1.000	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	MH-168	Infiltration Trench	68.233	67.106	0.000	0.000	0.0	0	0.0	OK
Pipe	FSR: 1 years: +0 %: 120 mins: Winter	Pipe	MH-178	Cellular Storage	66.820	65.663	0.079	34.052	0.7	0.15	10.1	OK
Pipe (2)	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	Cellular Storage	MH-179	66.780	64.288	0.000	0.000	0.0	0	0.0	OK

Project: West of Ifield Phase 1A				Date: 27/11/2023							I DRN			
Report Details: Type: Connections Summary Storm Phase: Outfall-4 without Pond				Company Address: Arcadis										
Pipe (2) (1)	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	MH-179	Outfall	66.729	65.513	0.000	0.000	0.0	0	0.0	OK		

Project: West of Ifield Phase 1A	Date: 27/11/2023		
	Designed by: D.Samuel	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Outfall-4 without Pond	Company Address: Arcadis		





FSR: 5 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
OF 4-1.005	FSR: 5 years: +0 %: 60 mins: Winter	Pipe	MH-171	MH-172	68.118	66.934	0.050	8.253	0.6	0.22	3.1	OK
OF 4-1.008	FSR: 5 years: +0 %: 120 mins: Summer	Pipe	MH-173	MH-174	67.744	66.724	0.150	16.576	0.4	0.3	4.4	Surcharged
OF 4-1.006	FSR: 5 years: +0 %: 60 mins: Winter	Pipe	MH-172	Infiltration Trench (71)	67.989	66.840	0.057	9.941	0.7	0.21	3.7	OK
OF 4-3.002	FSR: 5 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (73)	MH-174	68.056	66.728	0.150	9.726	0.8	0.22	6.0	Surcharged
OF 4-1.007	FSR: 5 years: +0 %: 30 mins: Winter	Pipe	Infiltration Trench (71)	MH-173	67.933	66.665	0.136	6.901	0.5	0.25	3.8	OK
OF 4-2.000	FSR: 5 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (72)	MH-173	67.774	66.718	0.150	2.162	0.5	0.05	1.1	Surcharged
OF 4-1.009	FSR: 5 years: +0 %: 30 mins: Summer	Pipe	MH-174	Infiltration Trench (74)	67.765	66.647	0.150	15.069	0.8	0.59	9.9	Surcharged
OF 4-1.010	FSR: 5 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench (74)	MH-177	67.618	66.663	0.077	40.903	0.9	0.55	8.0	Surcharged
OF 4-1.011	FSR: 5 years: +0 %: 120 mins: Winter	Pipe	MH-177	Infiltration Trench (75)	67.516	66.388	0.072	40.896	1.0	0.32	8.0	OK
OF 4-1.012	FSR: 5 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (75)	MH-178	67.430	65.764	0.117	46.678	1.1	0.9	16.6	OK
OF 4-1.001	FSR: 5 years: +0 %: 120 mins: Winter	Pipe	Infiltration Trench	MH-169	68.231	67.076	0.067	3.026	0.3	0.08	1.2	OK
OF 4-1.003	FSR: 5 years: +0 %: 15 mins: Winter	Pipe	MH-170	Infiltration Trench (1)	68.197	67.034	0.087	2.299	0.4	0.32	3.6	OK
OF 4-1.004	FSR: 5 years: +0 %: 60 mins: Winter	Pipe	Infiltration Trench (1)	MH-171	68.118	67.061	0.051	8.268	0.8	0.22	3.1	Surcharged
OF 4-3.000	FSR: 5 years: +0 %: 15 mins: Winter	Pipe	MH-175	MH-176	68.244	67.285	0.112	6.308	0.9	0.88	12.7	OK
OF 4-3.001	FSR: 5 years: +0 %: 15 mins: Winter	Pipe	MH-176	Infiltration Trench (73)	68.137	67.018	0.104	6.280	0.9	0.69	11.7	OK
OF 4-1.002	FSR: 5 years: +0 %: 60 mins: Winter	Pipe	MH-169	MH-170	68.241	67.086	0.107	2.051	0.2	0.11	1.2	OK
OF 4-1.000	FSR: 5 years: +0 %: 15 mins: Summer	Pipe	MH-168	Infiltration Trench	68.233	67.106	0.006	0.000	0.0	0	0.0	OK
Pipe	FSR: 5 years: +0 %: 60 mins: Winter	Pipe	MH-178	Cellular Storage	66.820	65.688	0.103	46.586	0.8	0.25	16.5	OK
Pipe (2)	FSR: 5 years: +0 %: 15 mins: Summer	Pipe	Cellular Storage	MH-179	66.780	64.308	0.000	0.000	0.0	0	0.0	OK

Project: West of Ifield Phase 1A		Date: 27/11/2023										
		Designed by: D.Samuel	Checked by:	Approved By:								
Report Details: Type: Connections Summary Storm Phase: Outfall-4 without Pond		Company Address: Arcadis										
Pipe (2) (1)	FSR: 5 years: +0 %: 15 mins: Summer	Pipe	MH-179	Outfall	66.729	65.513	0.000	0.000	0.0	0	0.0	OK

Project: West of Ifield Phase 1A	Date: 27/11/2023			
	Designed by: D.Samuel	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Outfall-4 without Pond	Company Address: Arcadis			



FSR: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
OF 4-1.005	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH-171	MH-172	68.118	67.033	0.150	5.177	0.4	0.31	4.5	OK
OF 4-1.008	FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH-173	MH-174	67.744	67.286	0.150	59.413	0.4	0.39	5.7	Surcharged
OF 4-1.006	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH-172	Infiltration Trench (71)	67.989	67.026	0.150	7.447	0.7	0.46	8.3	Surcharged
OF 4-3.002	FSR: 100 years: +40 %: 30 mins: Winter	Pipe	Infiltration Trench (73)	MH-174	68.056	67.296	0.150	17.039	0.7	0.25	7.0	Surcharged
OF 4-1.007	FSR: 100 years: +40 %: 120 mins: Winter	Pipe	Infiltration Trench (71)	MH-173	67.933	67.317	0.150	51.326	0.5	0.31	4.8	Surcharged
OF 4-2.000	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	Infiltration Trench (72)	MH-173	67.774	66.920	0.150	0.867	0.4	0.07	1.6	Surcharged
OF 4-1.009	FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH-174	Infiltration Trench (74)	67.765	67.278	0.150	115.836	0.8	0.67	11.3	Surcharged
OF 4-1.010	FSR: 100 years: +40 %: 120 mins: Winter	Pipe	Infiltration Trench (74)	MH-177	67.618	67.176	0.150	121.870	1.0	0.87	12.6	Surcharged
OF 4-1.011	FSR: 100 years: +40 %: 120 mins: Winter	Pipe	MH-177	Infiltration Trench (75)	67.516	66.672	0.150	121.771	1.1	0.51	12.8	Surcharged
OF 4-1.012	FSR: 100 years: +40 %: 30 mins: Winter	Pipe	Infiltration Trench (75)	MH-178	67.430	66.150	0.150	65.155	1.7	1.61	29.5	Surcharged
OF 4-1.001	FSR: 100 years: +40 %: 15 mins: Summer	Pipe	Infiltration Trench	MH-169	68.231	67.256	0.150	0.368	0.1	0.12	1.8	Surcharged
OF 4-1.003	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH-170	Infiltration Trench (1)	68.197	67.321	0.150	4.616	0.5	0.51	5.7	Surcharged
OF 4-1.004	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	Infiltration Trench (1)	MH-171	68.118	67.296	0.142	5.480	0.7	0.33	4.8	Surcharged
OF 4-3.000	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH-175	MH-176	68.244	68.244	0.150	16.604	1.6	1.96	28.3	Flood Risk

Project: West of Ifield Phase 1A				Date: 27/11/2023									
				Designed by: D.Samuel		Checked by:						Approved By:	
Report Details: Type: Connections Summary Storm Phase: Outfall-4 without Pond				Company Address: Arcadis									

OF 4-3.001	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	MH-176	Infiltration Trench (73)	68.137	67.480	0.150	15.893	1.5	1.55	26.3	Surcharged
OF 4-1.002	FSR: 100 years: +40 %: 15 mins: Summer	Pipe	MH-169	MH-170	68.241	67.274	0.150	0.018	0.1	0.19	1.9	Surcharged
OF 4-1.000	FSR: 100 years: +40 %: 15 mins: Summer	Pipe	MH-168	Infiltration Trench	68.233	67.274	0.150	0.000	0.0	0.01	0.1	Surcharged
Pipe	FSR: 100 years: +40 %: 30 mins: Winter	Pipe	MH-178	Cellular Storage	66.820	65.730	0.141	64.720	0.9	0.46	29.7	OK
Pipe (2)	FSR: 100 years: +40 %: 960 mins: Winter	Pipe	Cellular Storage	MH-179	66.780	66.599	0.225	79.638	0.1	0.06	3.2	Surcharged
Pipe (2) (1)	FSR: 100 years: +40 %: 960 mins: Winter	Pipe	MH-179	Outfall	66.729	66.598	0.031	79.605	0.7	0.05	2.3	Flood Risk